



## ANSI Standards Approval Records

Listed below are all ANSI approval records as of September 6, 2019. Many of these ANSI approved standards that are published are available in electronic format (PDF) via ANSI's Electronic Standards Store (ESS) at <http://webstore.ansi.org>.

### 3-A (3-A SANITARY STANDARDS, INC.)

ANSI/3A 00-01-2018, 3-A Sanitary Standard for General Requirements

Approved: 2/1/2018

Eric Schweitzer, (703) 790-0295, [erics@3-a.org](mailto:erics@3-a.org)

### AA (ASC H35) (ALUMINUM ASSOCIATION)

ANSI H35.1/H35.1(M)-2017, Standard Alloy and Temper Designation Systems for Aluminum

Approved: 11/14/2017

Francesca Licari - [flicari@aluminum.org](mailto:flicari@aluminum.org)

ANSI H35.2-2017, Standard Dimensional Tolerances for Aluminum Mill Products

Approved: 11/14/2017

Francesca Licari - [flicari@aluminum.org](mailto:flicari@aluminum.org)

ANSI H35.2M-2017, Standard Dimensional Tolerances for Aluminum Mill Products

Approved: 11/14/2017

Francesca Licari - [flicari@aluminum.org](mailto:flicari@aluminum.org)

ANSI H35.3-2017, Standard Designation System for Aluminum Hardeners

Approved: 11/14/2017

Francesca Licari - [flicari@aluminum.org](mailto:flicari@aluminum.org)

ANSI H35.4-2017, Standard Designation System for Unalloyed Aluminum

Approved: 11/14/2017

Francesca Licari - [flicari@aluminum.org](mailto:flicari@aluminum.org)

ANSI H35.5-2013 (R2017), Standard Nomenclature System for Aluminum Metal Matrix Composite Materials

Approved: 11/14/2017

Francesca Licari - [flicari@aluminum.org](mailto:flicari@aluminum.org)

### AABC (ASSOCIATED AIR BALANCE COUNCIL)

ANSI/AABC MN-1-2016, AABC National Standards for Total System Balance, 7th Edition

Approved: 12/4/2015

[ray@aabc.com](mailto:ray@aabc.com)

### AAFS (AMERICAN ACADEMY OF FORENSIC SCIENCES)

ANSI/ASB Best Practice Recommendation 010-2018, Forensic Anthropology in Disaster Victim Identification: Best Practice Recommendations for the Medicolegal Authority

Approved: 10/4/2018

Document will be provided electronically on AAFS Standards Board website free of charge.

ANSI/ASB Std 006-2019, Best Practice Recommendation for DNA Analysis for Human Identification in Mass Fatality Incidents

Approved: 2/5/2019

Document will be provided electronically on AAFS Standards Board website free of charge.

ANSI/ASB Std 007-2018, Postmortem Impression Submission Strategy for Comprehensive Searches of Essential Automated Fingerprint Identification System Databases

Approved: 5/17/2018

Document will be provided electronically on AAFS Standards Board website free of charge.

ANSI/ASB Std 009-2019, Examination Of Human Remains By Forensic Pathologists In The Disaster Victim Identification Context

Approved: 2/5/2019

Document will be provided electronically on AAFS Standards Board website free of charge.

ANSI/ASB Std 017-2018, Standard Practices for Measurement Traceability in Forensic Toxicology

Approved: 6/13/2018

Document will be provided electronically on AAFS Standards Board website free of charge.

ANSI/ASB Std 019-2019, Wildlife Forensics General Standards

Approved: 5/3/2019

Document will be provided electronically on AAFS Standards Board website free of charge.

ANSI/ASB Std 020-2018, Standards for Validation Studies of DNA Mixtures for the Development and Verification of a Laboratory Mixture Interpretation Protocol

Approved: 9/11/2018

Document will be provided electronically on AAFS Standards Board website free of charge.

ANSI/ASB Std 022-2019, Standard for Forensic DNA Analysis Training Programs

Approved: 7/26/2019

Document will be provided electronically on AAFS Standards Board website free of charge.

ANSI/ASB Std 028-2019, Wildlife Forensics Morphology Standard

Approved: 5/3/2019

Document will be provided electronically on AAFS Standards Board website free of charge.

ANSI/ASB Std 029-2019, Report Writing in Wildlife Forensics: Morphology and Genetics

Approved: 5/3/2019

Document will be provided electronically on AAFS Standards Board website free of charge.

ANSI/ASB Std 037-2019, Guidelines for Opinions and Testimony in Forensic Toxicology

Approved: 1/18/2019

Document will be provided electronically on AAFS Standards Board website free of charge.

ANSI/ASB Std 045-2019, Standard for Stature Estimation in Forensic Anthropology

Approved: 2/8/2019

Document will be provided electronically on AAFS Standards Board website free of charge.

ANSI/ASB Std 046-2019, Wildlife Forensics Validation Standards-- STR Analysis

Approved: 5/3/2019

Document will be provided electronically on AAFS Standards Board website free of charge.

ANSI/ASB Std 047-2019, Wildlife Forensics Validation Standard Validating New Primers for Sequencing

Approved: 5/3/2019

Document will be provided electronically on AAFS Standards Board website free of charge.

ANSI/ASB Std 048-2019, Wildlife Forensic DNA Standard Procedures

Approved: 5/3/2019

Document will be provided electronically on AAFS Standards Board website free of charge.

ANSI/ASB Std 072-2019, Standards for the Validation of Procedures in Bloodstain Pattern Analysis

Approved: 5/3/2019

Document will be provided electronically on AAFS Standards Board website free of charge.

**AAMI (ASSOCIATION FOR THE  
ADVANCEMENT OF MEDICAL  
INSTRUMENTATION)**

<p>ANSI/AAM/IEC 60601-1-2-2014, Medical electrical equipment - Part 1-2: General requirements for basic safety and essential performance - Collateral standard: Electromagnetic disturbances - Requirements and tests <i>Approved: 5/8/2014</i> AAMI</p>	<p>ANSI/AAMI BF7-2012, Blood transfusion microfilters <i>Approved: 11/30/2012</i> AAMI</p>	<p>ANSI/AAMI HA60601-1-11-2015, Medical electrical equipment - Part 1-11: General requirements for basic safety and essential performance - Collateral Standard: Requirements for medical electrical equipment and medical electrical systems used in the home healthcare environment <i>Approved: 8/25/2015</i> AAMI</p>
<p>ANSI/AAMI 11663-2014, Quality of dialysis fluid for haemodialysis and related therapies <i>Approved: 8/8/2014</i> AAMI</p>	<p>ANSI/AAMI BP22-1994 (R2016), Blood pressure transducers <i>Approved: 1/6/2017</i> AAMI</p>	<p>ANSI/AAMI HE75-2009 (R2018), Human factors engineering - Design of medical devices <i>Approved: 8/10/2018</i> AAMI</p>
<p>ANSI/AAMI 13958-2014, Concentrates for haemodialysis and related therapies <i>Approved: 8/15/2014</i> AAMI</p>	<p>ANSI/AAMI CI86-2017, Cochlear Implant Systems: Requirements for Safety, Functional Verification, Labeling and Reliability Reporting <i>Approved: 1/6/2017</i> AAMI</p>	<p>ANSI/AAMI ID54-1996 (R2012), Enteral feeding set adapters and connectors <i>Approved: 1/17/2012</i> AAMI</p>
<p>ANSI/AAMI 13959-2014, Water for haemodialysis and related therapies <i>Approved: 8/15/2014</i> AAMI</p>	<p>ANSI/AAMI EC12-2010 (R2015), Disposable ECG electrodes <i>Approved: 12/30/2015</i> AAMI</p>	<p>ANSI/AAMI NS28-1988 (R2015), Intracranial pressure monitoring devices <i>Approved: 8/31/2015</i> AAMI</p>
<p>ANSI/AAMI 23500-2014, Guidance for the preparation and quality management of fluids for haemodialysis and related therapies <i>Approved: 8/15/2014</i> AAMI</p>	<p>ANSI/AAMI EC53-2013, ECG trunk cables and patient leadwires <i>Approved: 11/19/2013</i> AAMI</p>	<p>ANSI/AAMI NS4-2013 (R2017), Transcutaneous electrical nerve stimulators <i>Approved: 11/8/2017</i> AAMI</p>
<p>ANSI/AAMI 26722-2014, Water treatment equipment for haemodialysis applications and related therapies <i>Approved: 8/8/2014</i> AAMI</p>	<p>ANSI/AAMI EC57-2012, Testing and reporting performance results of cardiac rhythm and ST segment measurement algorithms <i>Approved: 12/18/2012</i> AAMI</p>	<p>ANSI/AAMI PB70-2012, Liquid barrier performance and classification of protective apparel and drapes intended for use in health care facilities <i>Approved: 6/21/2012</i> AAMI</p>
<p>ANSI/AAMI 2700-1-2019, Medical Devices and Medical Systems — Essential safety requirements for equipment comprising the patient-centric integrated clinical environment (ICE) — Part 1: General requirements and conceptual model <i>Approved: 7/29/2019</i> AAMI</p>	<p>ANSI/AAMI EQ56-2013, Recommended practice for a medical equipment management program <i>Approved: 3/13/2013</i> AAMI</p>	<p>ANSI/AAMI RD47-2008 (R2013), Reprocessing of hemodialyzers <i>Approved: 10/4/2013</i> AAMI</p>
<p>ANSI/AAMI 2700-1-2019, Medical Devices and Medical Systems — Essential safety requirements for equipment comprising the patient-centric integrated clinical environment (ICE) — Part 1: General requirements and conceptual model <i>Approved: 7/29/2019</i> AAMI</p>	<p>ANSI/AAMI EQ89-2015, Guidance for the use of medical equipment maintenance strategies and procedures <i>Approved: 2/12/2015</i> AAMI</p>	<p>ANSI/AAMI ST15883-1-2009/A1-2014, Washer-disinfectors - Part 1: General requirements, terms and definitions and tests - Amendment 1 <i>Approved: 7/17/2014</i> AAMI</p>
<p>ANSI/AAMI AT6-2013, Autologous transfusion devices <i>Approved: 8/27/2013</i> AAMI</p>	<p>ANSI/AAMI EQ93-2019, Medical equipment management - Vocabulary used in medical equipment programs <i>Approved: 4/18/2019</i> AAMI</p>	<p>ANSI/AAMI ST15883-1-2009/A2-2012, Washer-disinfectors - Part 1: General requirements, terms and definitions and tests, Amendment 2 <i>Approved: 8/23/2012</i> AAMI</p>
<p>ANSI/AAMI BE83-2006 (R2011), Biological evaluation of medical devices - Part 18: Chemical characterization of materials <i>Approved: 12/2/2011</i> AAMI</p>	<p>ANSI/AAMI ES60601-1-2005 C1-2009 and A2 (R2012), Medical electrical equipment - Part 1: General requirements for basic safety and essential performance <i>Approved: 1/17/2012</i> AAMI</p>	<p>ANSI/AAMI ST15883-2-2013 (ISO 15883-2-2006 MOD)-2013 (R2015), Washer-disinfectors, Part 2: Requirements and tests for washer-disinfectors employing thermal disinfection for surgical instruments, anaesthetic equipment, bowls, dishes, receivers, utensils, glassware, etc <i>Approved: 11/23/2015</i> AAMI</p>
<p>ANSI/AAMI BF64-2012, Leukocyte reduction filters <i>Approved: 11/29/2012</i> AAMI</p>	<p>ANSI/AAMI ES60601-1-2005, A1-2012, Medical electrical equipment - Part 1: General requirements for basic safety and essential performance Amendment 1 <i>Approved: 8/21/2012</i> AAMI</p>	<p>ANSI/AAMI ST15883-2-2013 (ISO 15883-2-2006 MOD)-2013 (R2015), Washer-disinfectors, Part 2: Requirements and tests for washer-disinfectors employing thermal disinfection for surgical instruments, anaesthetic equipment, bowls, dishes, receivers, utensils, glassware, etc <i>Approved: 11/23/2015</i> AAMI</p>

ANSI/AAMI ST15883-3-2012 (ISO 15883-3-2006) MOD-2012 (R2015), Washer-disinfectors, Part 3: Requirements and tests for washer-disinfectors employing thermal disinfection for human waste containers  
*Approved: 11/23/2015*

AAMI

ANSI/AAMI ST24-1999 (R2018), Automatic, general-purpose ethylene oxide sterilizers and ethylene oxide sterilant sources intended for use in health care facilities  
*Approved: 9/6/2018*

AAMI

ANSI/AAMI ST40-2004 (R2018), Table-top dry heat (heated air) sterilization and sterility assurance in health care facilities  
*Approved: 1/12/2018*

AAMI

ANSI/AAMI ST41-2008 (R2018), Ethylene oxide sterilization in health care facilities: Safety and effectiveness  
*Approved: 1/16/2018*

AAMI

ANSI/AAMI ST50-2004 (R2018), Dry heat (heated air) sterilizers  
*Approved: 1/12/2018*

AAMI

ANSI/AAMI ST55-2016, Table-top steam sterilizers  
*Approved: 11/1/2016*

AAMI

ANSI/AAMI ST58-2013 (R2018), Chemical sterilization and high-level disinfection in health care facilities  
*Approved: 9/6/2018*

AAMI

ANSI/AAMI ST65-2008 (R2018), Processing of reusable surgical textiles for use in health care facilities  
*Approved: 9/6/2018*

AAMI

ANSI/AAMI ST67-2019, Sterilization of health care products - Requirements and guidance for selecting a sterility assurance level (SAL) for products labeled sterile  
*Approved: 7/29/2019*

AAMI

ANSI/AAMI ST72-2011 (R2016), Bacterial endotoxin - Test methods, routine monitoring and alternatives to batch testing  
*Approved: 6/9/2016*

AAMI

ANSI/AAMI ST77-2013 (R2018), Containment devices for reusable medical device sterilization  
*Approved: 9/6/2018*

AAMI

ANSI/AAMI ST79-2017, Comprehensive guide to steam sterilization and sterility assurance in health care facilities  
*Approved: 7/18/2017*

AAMI

ANSI/AAMI ST79-2010/A2.1-2011, Comprehensive guide to steam sterilization and sterility assurance in health care facilities  
*Approved: 8/8/2011*

AAMI

ANSI/AAMI ST79-2010/A2.2-2011, Comprehensive guide to steam sterilization and sterility assurance in health care facilities  
*Approved: 8/8/2011*

AAMI

ANSI/AAMI ST79-2010/A2.3-2011, Comprehensive guide to steam sterilization and sterility assurance in health care facilities  
*Approved: 8/8/2011*

AAMI

ANSI/AAMI ST79-2010/A2.5-2011, Comprehensive guide to steam sterilization and sterility assurance in health care facilities  
*Approved: 9/19/2011*

AAMI

ANSI/AAMI ST79-2010/A3.1-2012, Comprehensive guide to steam sterilization and sterility assurance in health care facilities  
*Approved: 8/22/2012*

AAMI

ANSI/AAMI ST79-2010/A3.2-2012, Comprehensive guide to steam sterilization and sterility assurance in health care facilities  
*Approved: 8/23/2012*

AAMI

ANSI/AAMI ST79-2010/A3.3-2012, Comprehensive guide to steam sterilization and sterility assurance in health care facilities  
*Approved: 8/23/2012*

AAMI

ANSI/AAMI ST79-2010/A3.4-2012, Comprehensive guide to steam sterilization and sterility assurance in health care facilities  
*Approved: 8/23/2012*

AAMI

ANSI/AAMI ST79-2010/A3.5-2012, Comprehensive guide to steam sterilization and sterility assurance in health care facilities  
*Approved: 8/23/2012*

AAMI

ANSI/AAMI ST79-2010/A3.6-2012, Comprehensive guide to steam sterilization and sterility assurance in health care facilities  
*Approved: 8/23/2012*

AAMI

ANSI/AAMI ST79-2010/A3.7-2012, Comprehensive guide to steam sterilization and sterility assurance in health care facilities  
*Approved: 8/23/2012*

AAMI

ANSI/AAMI ST79-2010/A4.1-2013, Comprehensive guide to steam sterilization and sterility assurance in health care facilities  
*Approved: 10/14/2013*

AAMI

ANSI/AAMI ST79-2010/A4.2-2013, Comprehensive guide to steam sterilization and sterility assurance in health care facilities  
*Approved: 10/14/2013*

AAMI

ANSI/AAMI ST8-2013 (R2018), Hospital steam sterilizers  
*Approved: 8/17/2018*

AAMI

ANSI/AAMI ST90-2017, Processing of health care products - Quality management systems for processing in health care facilities  
*Approved: 7/18/2017*

AAMI

ANSI/AAMI ST91-2015, Flexible and semi-rigid endoscope reprocessing in health care facilities  
*Approved: 4/8/2015*

AAMI

ANSI/AAMI SW91-2018, Classification of Defects in Health Software  
*Approved: 10/22/2018*

AAMI

ANSI/AAMI/IEC 60601-1-12-2016, Medical electrical equipment -Part 1-12: General requirements for basic safety and essential performance - Collateral Standard: Requirements for medical electrical equipment and medical electrical systems intended for use in the emergency medical services environment  
*Approved: 10/6/2016*

AAMI

ANSI/AAMI/IEC 60601-1-8-2013, Medical electrical equipment - Part 1-8: General requirements for basic safety and essential performance - Collateral Standard: General requirements, tests and guidance for alarm systems in medical electrical equipment and medical electrical systems  
*Approved: 10/21/2013*

AAMI

ANSI/AAMI/IEC 60601-2-16, Ed. 4-2012, Medical electrical equipment - Part 2-16: Particular requirements for basic safety and essential performance of haemodialysis, haemodiafiltration and haemofiltration equipment  
*Approved: 9/5/2012*

AAMI

ANSI/AAMI/IEC 60601-2-19-2009 (R2014), Medical electrical equipment - Part 2-19: Particular requirements for the basic safety and essential performance of infant incubators  
*Approved: 12/16/2014*

AAMI

ANSI/AAMI/IEC 60601-2-19/A1-2016, Medical electrical equipment - Part 2-19: Particular requirements for the basic safety and essential performance of infant incubators, Amendment 1  
*Approved: 11/10/2016*

AAMI

ANSI/AAMI/IEC 60601-2-2-2017, Medical electrical equipment - Part 2-2: Particular requirements for the basic safety and essential performance of high frequency surgical equipment and high frequency surgical accessories  
*Approved: 6/30/2017*

AAMI

ANSI/AAMI/IEC 60601-2-20-2009 (R2014), Medical electrical equipment - Part 2-20: Particular requirements for the basic safety and essential performance of infant transport incubators  
*Approved: 12/10/2014*

AAMI

ANSI/AAMI/IEC 60601-2-20/A1-2016, Medical electrical equipment - Part 2-20: Particular requirements for the basic safety and essential performance of transport infant incubators, Amendment 1  
*Approved: 11/10/2016*

AAMI

ANSI/AAMI/IEC 60601-2-21-2009 (R2014), Medical electrical equipment - Part 2-21: Particular requirements for the basic safety and essential performance of infant radiant warmers  
*Approved: 12/10/2014*

AAMI

ANSI/AAMI/IEC 60601-2-21/A1-2016, Medical electrical equipment - Part 2-21: Particular requirements for the basic safety and essential performance of infant radiant warmers, Amendment 1  
*Approved: 11/10/2016*

AAMI

ANSI/AAMI/IEC 60601-2-25-2011 (R2016), Medical electrical equipment - Part 2-25: Particular requirements for the basic safety and essential performance of electrocardiographs  
*Approved: 1/6/2017*

AAMI

ANSI/AAMI/IEC 60601-2-27-2011 (R2016), Medical electrical equipment - Part 2-27: Particular requirements for the basic safety and essential performance of electrocardiographic monitoring equipment  
*Approved: 1/6/2017*

AAMI

ANSI/AAMI/IEC 60601-2-4-2010 (R2015), Medical electrical equipment - Part 2-4: Particular requirements for the basic safety and essential performance of cardiac defibrillators  
*Approved: 12/30/2015*

AAMI

ANSI/AAMI/IEC 60601-2-4/A1-2018, Medical electrical equipment - Part 2-4: Particular requirements for the basic safety and essential performance of cardiac defibrillators Amendment 1  
*Approved: 1/11/2019*

AAMI

ANSI/AAMI/IEC 60601-2-47-2012 (R2016), Medical electrical equipment - Part 2-47: Particular requirements for the basic safety and essential performance of ambulatory electrocardiographic systems.  
*Approved: 1/6/2017*

AAMI

ANSI/AAMI/IEC 60601-2-50-2009 (R2014), Medical electrical equipment - Part 2-50: Particular requirements for the basic safety and essential performance of infant phototherapy equipment  
*Approved: 12/16/2014*

AAMI

ANSI/AAMI/IEC 60601-2-50/A1-2016, Medical electrical equipment - Part 2-50: Particular requirements for the basic safety and essential performance of infant phototherapy equipment, Amendment 1  
*Approved: 11/10/2016*

AAMI

ANSI/AAMI/IEC 62304-2006/Amd 1-2016, Medical device software - Software life cycle processes, Amendment 1  
*Approved: 4/7/2016*

AAMI

ANSI/AAMI/IEC 62366-1-2015, Medical devices - Application of usability Engineering to medical devices  
*Approved: 2/23/2015*

AAMI

ANSI/AAMI/IEC 80001-1-2010, Application of risk management for IT Networks incorporating medical devices - Part 1: Roles, responsibilities and activities  
*Approved: 10/6/2010*

AAMI

ANSI/AAMI/IEC 80601-2-30-2009, Medical electrical equipment - Part 2-30: Particular requirements for the basic safety and essential performance of automated non-invasive sphygmomanometers  
*Approved: 7/24/2009*

AAMI

ANSI/AAMI/IEC 80601-2-30-2018, Medical electrical equipment - Part 2-30: Particular requirements for the basic safety and essential performance of automated non-invasive sphygmomanometers  
*Approved: 1/11/2019*

AAMI

ANSI/AAMI/IEC 80601-2-30-2009/C1-2009, Medical electrical equipment - Part 2-30: Particular requirements for basic safety and essential performance of automated type non-invasive sphygmomanometers  
*Approved: 12/10/2009*

AAMI

ANSI/AAMI/IEC 80601-2-30-2009/A1-2013 (R2017), Medical electrical equipment - Part 2-30: Particular requirements for the basic safety and essential performance of automated type non-invasive sphygmomanometers - Amendment 1  
*Approved: 1/10/2017*

AAMI

ANSI/AAMI/IEC 80601-2-58-2014, Medical electrical equipment - Part 2-58: Particular requirements for the basic safety and essential performance of lens removal devices and vitrectomy devices for ophthalmic surgery  
*Approved: 9/10/2014*

AAMI

ANSI/AAMI/IEC 80601-2-58-2014/A1-2016, Medical electrical equipment - Part 2-58: Particular requirements for the basic safety and essential performance of lens removal and vitrectomy devices for ophthalmic surgery (Amendment 1)  
*Approved: 12/27/2016*

AAMI

ANSI/AAMI/ISO 10993-10:2010 (R2014), Biological evaluation of medical devices - Part 10: Tests for irritation and skin sensitization  
*Approved: 10/8/2014*

AAMI

ANSI/AAMI/ISO 10993-12-2012, Biological evaluation of medical devices - Part 12: Sample preparation and reference materials  
*Approved: 7/26/2012*

AAMI

ANSI/AAMI/ISO 10993-13-2010 (R2014), Biological evaluation of medical devices - Part 13: Identification and quantification of degradation products from polymeric medical devices  
*Approved: 10/8/2014*

AAMI

ANSI/AAMI/ISO 10993-14-2001 (R2011), Biological evaluation of medical devices - Part 14: Identification and quantification of degradation products from ceramics  
*Approved: 11/16/2011*

AAMI

ANSI/AAMI/ISO 10993-15-2000 (R2011), Biological evaluation of medical devices - Part 15: Identification and quantification of degradation products from metals and alloys  
*Approved: 11/16/2011*

AAMI

ANSI/AAMI/ISO 10993-17-2002 (R2012), Biological evaluation of medical devices - Part 17: Establishment of allowable limits for leachable substances  
*Approved: 11/30/2012*

AAMI

ANSI/AAMI/ISO 10993-2-2006 (R2014), Biological evaluation of medical devices - Part 2: Animal welfare requirements  
*Approved: 10/8/2014*

AAMI

ANSI/AAMI/ISO 10993-3-2014, Biological evaluation of medical devices - Part 3: Tests for genotoxicity, carcinogenicity and reproductive toxicity  
*Approved: 8/14/2014*

AAMI

ANSI/AAMI/ISO 10993-4:2002 (R2013), Biological evaluation of medical devices - Part 4: Selection of tests for interactions with blood  
*Approved: 11/26/2013*

AAMI

ANSI/AAMI/ISO 10993-5-2009 (R2014), Biological evaluation of medical devices - Part 5: Tests for in vitro cytotoxicity  
*Approved: 2/6/2014*

AAMI

ANSI/AAMI/ISO 10993-6-2017, Biological evaluation of medical devices -- Part 6: Tests for local effects after implantation  
*Approved: 1/10/2017*

AAMI

ANSI/AAMI/ISO 10993-7-2008 (R2012), Biological evaluation of medical devices - Part 7: Ethylene oxide sterilization residuals  
*Approved: 6/1/2012*

AAMI

ANSI/AAMI/ISO 10993-9-1999 (R2014), Biological evaluation of medical devices - Part 9: Framework for identification and quantification of potential degradation products  
*Approved: 9/23/2014*

AAMI

ANSI/AAMI/ISO 11135-2015, Sterilization of health care products - Ethylene oxide - Requirements for the development, validation and routine control of a sterilization process for medical devices  
*Approved: 7/27/2015*

AAMI

ANSI/AAMI/ISO 11137-1-2006 (R2015), Sterilization of health care products - Radiation - Part 1: Requirements for development, validation and routine control of a sterilization process for medical devices  
*Approved: 10/6/2015*

AAMI

ANSI/AAMI/ISO 11137-1:2006/Amd 1-2013, Sterilization of health care products - Radiation - Part 1: Requirements for development, validation and routine control of a sterilization process for medical devices - Amendment 1  
*Approved: 12/30/2013*

AAMI

ANSI/AAMI/ISO 11137-1/Amd2-2019, Sterilization of health care products -- Radiation -- Part 1: Requirements for development, validation and routine control of a sterilization process for medical devices -- Amendment 2: Revision to 4.3.4 and 11.2  
*Approved: 5/1/2019*

AAMI

ANSI/AAMI/ISO 11137-2, third edition-2013 (R2019), Sterilization of health care products -- Radiation -- Part 2: Establishing the sterilization dose  
*Approved: 5/1/2019*

AAMI

ANSI/AAMI/ISO 11137-3-2017, Sterilization of health care products - Radiation - Part 3: Guidance on dosimetric aspects of development, validation and routine control  
*Approved: 10/6/2017*

AAMI

ANSI/AAMI/ISO 11138-1-2017, Sterilization of health care products - Biological indicators - Part 1: General requirements  
*Approved: 8/1/2017*

AAMI

ANSI/AAMI/ISO 11138-2-2017, Sterilization of health care products - Biological indicators - Part 2: Biological indicators for ethylene oxide sterilization processes  
*Approved: 8/1/2017*

AAMI

ANSI/AAMI/ISO 11138-3-2017, Sterilization of health care products - Biological indicators - Part 3: Biological indicators for moist heat sterilization processes  
*Approved: 8/1/2017*

AAMI

ANSI/AAMI/ISO 11138-4-2017, Sterilization of health care products - Biological indicators - Part 4: Biological indicators for dry heat sterilization processes  
*Approved: 8/1/2017*

AAMI

ANSI/AAMI/ISO 11138-5-2017, Sterilization of health care products - Biological indicators - Part 5: Biological indicators for low-temperature steam and formaldehyde sterilization processes  
*Approved: 8/1/2017*

AAMI

ANSI/AAMI/ISO 11140-1-2014, Sterilization of health care products - Chemical indicators - Part 1: General requirements  
*Approved: 9/10/2014*

AAMI

ANSI/AAMI/ISO 11140-3-2012 (R2015), Sterilization Of Health Care Products - Chemical Indicators - Part 3: Class 2 Indicator Systems For Use In The Bowie And Dick-Type Steam Penetration Test  
*Approved: 11/10/2015*

AAMI

ANSI/AAMI/ISO 11140-4-2012 (R2015), Sterilization Of Health Care Products - Chemical Indicators - Part 4: Class 2 Indicators As An Alternative To Bowie And Dick Test For Detection Of Steam Penetration  
*Approved: 11/10/2015*

AAMI

ANSI/AAMI/ISO 11140-5-2012 (R2015), Sterilization of Health Care Products - Chemical Indicators - Part 5: Class 2 Indicators for Bowie and Dick Air Removal Test Sheets and Packs  
*Approved: 11/10/2015*

AAMI

ANSI/AAMI/ISO 11607-1-2019, Packaging for terminally sterilized medical devices - Part 1: Requirements for materials, sterile barrier systems and packaging  
*Approved: 5/21/2019*

AAMI

ANSI/AAMI/ISO 11607-1:2006, A1-2014, Amendment 1 to ANSI/AAMI/ISO 11607 -1:2006, Packaging for terminally sterilized medical devices - Part 1: Requirements for materials, sterile barrier systems, and packaging  
*Approved: 9/10/2014*

AAMI

ANSI/AAMI/ISO 11607-1-2006/A1-2014 (R2015), Packaging for terminally sterilized medical devices - Part 1: Requirements for materials, sterile barrier systems and packaging  
*Approved: 2/11/2016*

AAMI

ANSI/AAMI/ISO 11607-2-2019, Packaging for terminally sterilized medical devices - Part 2: Validation requirements for forming, sealing and assembly processes  
*Approved: 5/21/2019*

AAMI

ANSI/AAMI/ISO 11607-2:2006, A1-2014, Amendment 1 to ANSI/AAMI/ISO 11607 -2:2006, Packaging for terminally sterilized medical devices - Part 2: Validation requirements for forming, sealing and assembly processes  
*Approved: 9/10/2014*

AAMI

ANSI/AAMI/ISO 11607-2-2006,A1-2014 (R2015), Packaging for terminally sterilized medical devices - Part 2: Validation requirements for forming, sealing and assembly processes  
*Approved: 2/11/2016*

AAMI

ANSI/AAMI/ISO 11658-2012, Cardiovascular implants and extracorporeal systems - Blood/tissue contact surface modifications for extracorporeal perfusion systems  
*Approved: 8/20/2012*

AAMI

ANSI/AAMI/ISO 11737-1-2018, AAMI/ISO CDV-3 11737-1, Sterilization of health care products - Microbiological methods - Part 1: Determination of a population of microorganisms on product  
*Approved: 1/24/2018*

AAMI

ANSI/AAMI/ISO 11737-2-2009 (R2014), Sterilization of medical devices - Microbiological methods - Part 2: Tests of sterility performed in the definition, validation and maintenance of a sterilization process  
*Approved: 10/13/2014*

AAMI

ANSI/AAMI/ISO 12417-1-2015, Cardiovascular implants and extracorporeal systems - Vascular device-drug combination products - Part 1: General requirements  
*Approved: 11/16/2015*

AAMI

ANSI/AAMI/ISO 13022-2012, Medical products containing viable human cells -- Application of risk management and requirements for processing practices  
*Approved: 6/18/2012*

AAMI

ANSI/AAMI/ISO 13408-1-2008 (R2011), Aseptic processing of health care products - Part 1: General requirements  
*Approved: 12/14/2011*

AAMI

ANSI/AAMI/ISO 13408-1-2008/A1-2013 (R2017), Aseptic processing of health care products - Part 1: General requirements  
*Approved: 5/18/2017*

AAMI

ANSI/AAMI/ISO 13408-2-2018, Aseptic processing of health care products - Part 2: Sterilizing filtration  
*Approved: 2/1/2018*

AAMI

ANSI/AAMI/ISO 13408-3-2012 (R2015), Aseptic processing of health care products - Part 3: Lyophilization  
*Approved: 7/13/2015*

AAMI

ANSI/AAMI/ISO 13408-4-2005 (R2014), Aseptic processing of health care products - Part 4: Clean-in-place technologies  
*Approved: 10/13/2014*

AAMI

ANSI/AAMI/ISO 13408-5-2012 (R2015), Aseptic processing of health care products - Part 5: Sterilization in place  
*Approved: 8/3/2015*

AAMI

ANSI/AAMI/ISO 13408-6-2005 (R2013), Aseptic processing of health care products - Part 6: Isolator systems  
*Approved: 11/26/2013*

AAMI

ANSI/AAMI/ISO 13408-6-2005/A1-2013, Aseptic processing of health care products - Part 6: Isolator systems - Amendment 1  
*Approved: 3/11/2013*

AAMI

ANSI/AAMI/ISO 13408-7-2012 (R2018), Aseptic processing of health care products - Part 7: Alternative processes for atypical medical devices and combination products  
*Approved: 8/17/2018*

AAMI

ANSI/AAMI/ISO 13485 (Ed.3)-2016, Medical devices - Quality management systems - Requirements for regulatory purposes  
*Approved: 6/8/2016*

AAMI

ANSI/AAMI/ISO 14117-2012, Active implantable medical devices - Electromagnetic compatibility - EMC test protocols for implantable cardiac pacemakers, implantable cardioverter defibrillators and cardiac resynchronization devices  
*Approved: 11/30/2012*

AAMI

ANSI/AAMI/ISO 14155-2010, Clinical investigation of medical devices for human subjects - Good clinical practice  
*Approved: 12/30/2010*

AAMI

ANSI/AAMI/ISO 14155-1-2003 (R2008), Clinical investigation of medical devices for human subjects - Part 1: General requirements  
*Approved: 12/19/2008*

AAMI

ANSI/AAMI/ISO 14155-2-2003 (R2008), Clinical investigation of medical devices for human subjects - Part 2: Clinical investigation plans  
*Approved: 12/19/2008*  
AAMI

ANSI/AAMI/ISO 14160-2011 (R2016), Sterilization of health care products--Liquid chemical sterilizing agents for single-use medical devices utilizing animal tissues and their derivatives--Requirements for characterization, development, validation and routine control of a sterilization process for medical devices  
*Approved: 11/17/2016*  
AAMI

ANSI/AAMI/ISO 14161-2009 (R2014), Sterilization of health care products - Biological indicators - Guidance for the selection, use and interpretation of results  
*Approved: 4/2/2014*  
AAMI

ANSI/AAMI/ISO 14708-1-2014, Implants for surgery - Active implantable medical devices - Part 1: General requirements for safety, marking and for information to be provided by the manufacturer  
*Approved: 10/8/2014*  
AAMI

ANSI/AAMI/ISO 14708-3-2017, Implants for surgery - Active implantable medical devices - Part 3: Implantable neurostimulators  
*Approved: 3/2/2017*  
AAMI

ANSI/AAMI/ISO 14708-4-2008 (R2011), Implants for surgery - Active implantable medical devices - Part 4: Implantable infusion pumps  
*Approved: 11/16/2011*  
AAMI

ANSI/AAMI/ISO 14708-5-2010 (R2015), Implants for surgery - Active implantable medical devices - Part 5: Circulatory support devices  
*Approved: 11/20/2015*  
AAMI

ANSI/AAMI/ISO 14937-2009 (R2013), Sterilization of health care products -- General requirements for characterization of a sterilizing agent and the development, validation and routine control of a sterilization process for medical devices  
*Approved: 12/2/2013*  
AAMI

ANSI/AAMI/ISO 14971-2019, Medical devices - Application of risk management to medical devices  
*Approved: 5/10/2019*  
AAMI

ANSI/AAMI/ISO 14971-2007 (Ed 2, vers 2) (R2016), Medical devices - Risk management - Application of risk management to medical devices  
*Approved: 11/29/2016*  
AAMI

ANSI/AAMI/ISO 15223-1:2016, Medical devices - Symbols to be used with medical device labels, labelling and information to be supplied - Part 1: General requirements  
*Approved: 1/5/2017*  
AAMI

ANSI/AAMI/ISO 15223-2-2016, Medical devices - Symbols to be used with medical device labels, labeling and information to be supplied - Part 2: Symbol development, selection and validation  
*Approved: 4/7/2016*  
AAMI

ANSI/AAMI/ISO 15674-2016, Cardiovascular implants and artificial organs - Hardshell cardiotomy/venous reservoir systems (with/without filter) and soft venous reservoir bags  
*Approved: 11/7/2016*  
AAMI

ANSI/AAMI/ISO 15675-2016, Cardiovascular implants and artificial organs - Cardiopulmonary bypass systems - Arterial blood line filters  
*Approved: 11/7/2016*  
AAMI

ANSI/AAMI/ISO 15676-2016, Cardiovascular implants and artificial organs - Requirements for single-use tubing packs for cardiopulmonary bypass and extracorporeal membrane oxygenation (ECMO)  
*Approved: 11/7/2016*  
AAMI

ANSI/AAMI/ISO 15882-2008 (R2013), Sterilization of health care products - Chemical indicators - Guidance for selection, use and interpretation of results  
*Approved: 10/4/2013*  
AAMI

ANSI/AAMI/ISO 16142-1-2016, Medical devices - Recognized essential principles of safety and performance of medical devices - Part 1: General essential principles and additional specific essential principles for all non-IVD medical devices and guidance on the selection of standards  
*Approved: 7/7/2016*  
AAMI

ANSI/AAMI/ISO 16142-2-2017, Medical devices - Recognized essential principles of safety and performance of medical devices - Part 2: General essential principles and additional specific essential principles for all IVD medical devices and guidance on the selection of standards  
*Approved: 7/31/2017*  
AAMI

ANSI/AAMI/ISO 17664-2017, Sterilization of health care products - Information to be provided by the device manufacturer for the processing of medical devices  
*Approved: 8/18/2017*  
AAMI

ANSI/AAMI/ISO 17665-1-2005 (R2013), Sterilization of health care products -- Moist heat -- Part 1: Requirements for the development, validation and routine control of a sterilization process for medical devices  
*Approved: 12/2/2013*  
AAMI

ANSI/AAMI/ISO 18241-2016, Cardiovascular implants and extracorporeal systems - Cardiopulmonary bypass systems - Venous bubble traps  
*Approved: 11/7/2016*  
AAMI

ANSI/AAMI/ISO 18242-2016, Cardiovascular implants and extracorporeal systems - Centrifugal blood pumps  
*Approved: 11/7/2016*  
AAMI

ANSI/AAMI/ISO 20857-2010 (R2015), Sterilization of health care products - Dry heat: Requirements for the development, validation and routine control of a sterilization process for medical devices  
*Approved: 12/7/2015*  
AAMI

ANSI/AAMI/ISO 22442-1-2016, Medical devices utilizing animal tissues and their derivatives - Part 1: Application of risk management  
*Approved: 11/17/2016*  
AAMI

ANSI/AAMI/ISO 22442-2-2016, Medical devices utilizing animal tissues and their derivatives - Part 2: Controls on sourcing, collection and handling  
*Approved: 11/17/2016*

AAMI

ANSI/AAMI/ISO 22442-3-2007 (R2016), Medical devices utilizing animal tissues and their derivatives - Part 3: Validation of the elimination and/or inactivation of viruses and transmissible spongiform encephalopathy (TSE) agents  
*Approved: 11/22/2016*

AAMI

ANSI/AAMI/ISO 25539-1-2017, Cardiovascular implants - Endovascular devices - Part 1: Endovascular prostheses  
*Approved: 5/25/2017*

AAMI

ANSI/AAMI/ISO 25539-2-2012, Cardiovascular implants - Endovascular devices - Part 2: Vascular stents  
*Approved: 12/4/2012*

AAMI

ANSI/AAMI/ISO 25539-3-2012 (R2015), Cardiovascular Implants - Endovascular Devices - Part 3: Vena Cava Filters  
*Approved: 11/24/2015*

AAMI

ANSI/AAMI/ISO 27185-2012 (R2017), Cardiac rhythm management devices - Symbols to be used with cardiac rhythm management device labels, and information to be supplied - General requirements  
*Approved: 6/1/2017*

AAMI

ANSI/AAMI/ISO 5840-1-2015, Cardiovascular implants - Cardiac valve prostheses - Part 1: General requirements  
*Approved: 11/16/2015*

AAMI

ANSI/AAMI/ISO 5840-2-2015, Cardiovascular implants - Cardiac valve prostheses - Part 2: Surgically implanted heart valve substitutes  
*Approved: 11/16/2015*

AAMI

ANSI/AAMI/ISO 5840-3-2012, Cardiovascular implants - Cardiac valve prostheses - Part 3: Heart valve substitutes implanted by minimally invasive techniques  
*Approved: 12/4/2012*

AAMI

ANSI/AAMI/ISO 5841-2-2014, Implants for surgery - Cardiac pacemakers - Part 2: Reporting of clinical performance of populations of pulse generators or leads  
*Approved: 7/21/2014*

AAMI

ANSI/AAMI/ISO 5841-3-2013 (R2018), Implants for surgery - Cardiac pacemakers - Part 3: Low-profile connectors (IS-1) for implantable pacemakers  
*Approved: 8/10/2018*

AAMI

ANSI/AAMI/ISO 7198, Ed. 4-2016, Cardiovascular implants and extracorporeal systems - Vascular Prostheses - Tubular vascular grafts and vascular patches  
*Approved: 8/2/2016*

AAMI

ANSI/AAMI/ISO 7199-2016, Cardiovascular implants and artificial organs - Blood-gas exchangers (oxygenators)  
*Approved: 12/6/2016*

AAMI

ANSI/AAMI/ISO 7199-2009/A1-2011 (R2014), Cardiovascular implants and artificial organs - Blood-gas exchangers (oxygenators) Amendment 1  
*Approved: 4/4/2014*

AAMI

ANSI/AAMI/ISO 80369-1-2010, Small bore connectors for liquids and gases in healthcare applications - Part 1: General requirements  
*Approved: 12/30/2010*

AAMI

ANSI/AAMI/ISO 80369-20-2015, Small-bore connectors for liquids and gases in healthcare applications - Part 20: Common test methods  
*Approved: 4/20/2015*

AAMI

ANSI/AAMI/ISO 80369-3-2016, Small-bore connectors for liquids and gases in healthcare applications - Part 3: Connectors for enteral applications  
*Approved: 8/3/2016*

AAMI

ANSI/AAMI/ISO 80369-5-2016, Small-bore connectors for liquids and gases in healthcare application - Part 5: Connectors for limb cuff inflation applications  
*Approved: 7/1/2016*

AAMI

ANSI/AAMI/ISO 80369-6-2016, Small-bore connectors for liquids and gases in healthcare applications -- Part 6: Connectors for neuraxial applications  
*Approved: 3/15/2016*

AAMI

ANSI/AAMI/ISO 80369-7-2016, Small-bore connectors for liquids and gases in healthcare applications - Part 7: Connectors with 6% (Luer) taper for intravascular or hypodermic applications  
*Approved: 9/27/2016*

AAMI

ANSI/AAMI/ISO 81060-1-2007 (R2010), Non-invasive sphygmomanometers - Part 1: Requirements and test methods for non-automated measurement type  
*Approved: 6/26/2013*

AAMI

ANSI/AAMI/ISO 81060-2-2019, Non-invasive sphygmomanometers: Part 2: Clinical investigation of intermittent automated measurement type  
*Approved: 5/10/2019*

AAMI

ANSI/AAMI/ISO 8637-2010 (R2015), AM1-2013 (R2015), Cardiovascular Implants and Extracorporeal Systems - Hemodialyzers, Hemodiafilters, Hemofilters and Hemoconcentrators  
*Approved: 11/20/2015*

AAMI

ANSI/AAMI/ISO 8638-2010 (R2015), Cardiovascular implants and extracorporeal systems - Extracorporeal blood circuit for hemodialyzers, hemodiafilters and hemofilters  
*Approved: 11/19/2015*

AAMI

ANSI/AAMI/ISO/IEC 81060-2-2013, Non-invasive sphygmomanometers - Part 2: Clinical validation of automated measurement type  
*Approved: 6/26/2013*

AAMI

ANSI/ANSI/AAMI ST15883-1-2009 (R2014), Washer-disinfectors, Part 1: General requirements, terms and definitions and tests  
*Approved: 9/26/2014*

AAMI

**AARST (AMERICAN ASSOCIATION OF RADON SCIENTISTS AND TECHNOLOGISTS)**

ANSI/AARST CC-1000-2017, Soil Gas Control Systems in New Construction of Buildings  
*Approved: 1/19/2017*

[standards@aarst.org](mailto:standards@aarst.org)

ANSI/AARST CC-1000-2018, Soil Gas Control Systems in New Construction of Buildings  
*Approved: 12/11/2017*

[standards@aarst.org](mailto:standards@aarst.org)

ANSI/AARST CCAH-2013, Reducing Radon in New Construction of 1 & 2 Family Dwellings and Townhouses  
*Approved: 1/4/2013*

[standards@aarst.org](mailto:standards@aarst.org)

ANSI/AARST MAH-2019, Protocol for Conducting Measurements of Radon and Radon Decay Products in Homes  
*Approved: 6/28/2019*

[standards@aarst.org](mailto:standards@aarst.org)

ANSI/AARST MALB-2014, Protocol for Conducting Radon and Radon Decay Product Measurements In Schools and Large Buildings  
*Approved: 12/5/2014*

[standards@aarst.org](mailto:standards@aarst.org)

ANSI/AARST MAMF-2017, Protocol for Conducting Measurements of Radon and Radon Decay Product in Multifamily Buildings  
*Approved: 1/10/2017*

[standards@aarst.org](mailto:standards@aarst.org)

ANSI/AARST MS-PC-2015, Performance Specifications for Instrumentation Systems Designed to Measure Radon Gas in Air  
*Approved: 5/26/2015*

[standards@aarst.org](mailto:standards@aarst.org)

ANSI/AARST MS-QA-2019, Radon Measurement Systems Quality Assurance  
*Approved: 6/28/2019*

[standards@aarst.org](mailto:standards@aarst.org)

ANSI/AARST RMS-LB-2018, Radon Mitigation Standards for Schools and Large Buildings  
*Approved: 12/11/2017*

[standards@aarst.org](mailto:standards@aarst.org)

ANSI/AARST RMS-MF-2018, Radon Mitigation Standards for Multifamily Buildings  
*Approved: 12/11/2017*

[standards@aarst.org](mailto:standards@aarst.org)

ANSI/AARST SGM-SF-2017, Soil Gas Mitigation Standards for Existing Homes  
*Approved: 1/12/2017*

[standards@aarst.org](mailto:standards@aarst.org)

**ABMA (AMERICAN BRUSH MANUFACTURERS ASSOCIATION)**

ANSI B165.1-2019, Power Driven Brushing Tools -Safety Requirements for Design, Care and Use  
*Approved: 1/11/2019*

ABMA, 736 Main Ave, Ste 7, Durango, CO 81301 -5479

**ABMA (ASC B3) (AMERICAN BEARING MANUFACTURERS ASSOCIATION)**

ANSI/ABMA 10A-2001 (R2015), Metal Balls for Unground Bearings and Other Uses  
*Approved: 1/9/2015*

James Converse, (919) 481-2852, [jconverse@americanbearings.org](mailto:jconverse@americanbearings.org)

ANSI/ABMA 11-2014, Load Ratings and Fatigue Life for Roller Bearings  
*Approved: 7/21/2014*

James Converse, (919) 481-2852, [jconverse@americanbearings.org](mailto:jconverse@americanbearings.org)

ANSI/ABMA 12.1-1992 (S2010), Instrument Ball Bearings - Metric Design  
*Approved: 5/19/2010*

James Converse, (919) 481-2852, [jconverse@americanbearings.org](mailto:jconverse@americanbearings.org)

ANSI/ABMA 12.2-1992 (S2010), Instrument Ball Bearings - Inch Design  
*Approved: 5/19/2010*

James Converse, (919) 481-2852, [jconverse@americanbearings.org](mailto:jconverse@americanbearings.org)

ANSI/ABMA 14-1995 (S2010), Housings for Bearings with Spherical Outside Surfaces  
*Approved: 5/19/2010*

James Converse, (919) 481-2852, [jconverse@americanbearings.org](mailto:jconverse@americanbearings.org)

ANSI/ABMA 15-1991 (S2010), Ball Bearings with Spherical Outside Surfaces and Extended Inner Ring Width (Includes Eccentric Locking Collars)  
*Approved: 5/19/2010*

James Converse, (919) 481-2852, [jconverse@americanbearings.org](mailto:jconverse@americanbearings.org)

ANSI/ABMA 18.1-1982 (S2013), Radial Needle Roller Bearings, Metric Design  
*Approved: 1/10/2014*

James Converse, (919) 481-2852, [jconverse@americanbearings.org](mailto:jconverse@americanbearings.org)

ANSI/ABMA 18.2-1982 (S2013), Needle Roller Bearings - Radial, Inch Design  
*Approved: 1/10/2014*

James Converse, (919) 481-2852, [jconverse@americanbearings.org](mailto:jconverse@americanbearings.org)

ANSI/ABMA 19.1-2011 (R2018), Tapered Roller Bearings - Radial Metric Design (reaffirmation of ANSI/ABMA 19.1-2011)

*Approved: 10/18/2018*

James Converse, (919) 481-2852, [jconverse@americanbearings.org](mailto:jconverse@americanbearings.org)

ANSI/ABMA 19.2-2013, Tapered Roller Bearings - Radial - Inch Design

*Approved: 1/10/2014*

James Converse, (919) 481-2852, [jconverse@americanbearings.org](mailto:jconverse@americanbearings.org)

ANSI/ABMA 20-2011, Radial Bearings of Ball, Cylindrical Roller and Spherical Roller Types Metric Design

*Approved: 11/17/2011*

James Converse, (919) 481-2852, [jconverse@americanbearings.org](mailto:jconverse@americanbearings.org)

ANSI/ABMA 21.1-1988 (S2010), Thrust Needle Roller and Cage Assemblies and Thrust Washers - Metric Design

*Approved: 5/19/2010*

James Converse, (919) 481-2852, [jconverse@americanbearings.org](mailto:jconverse@americanbearings.org)

ANSI/ABMA 21.2-1988 (S2010), Thrust Needle Roller and Cage Assemblies and Thrust Washers - Inch Design

*Approved: 5/19/2010*

James Converse, (919) 481-2852, [jconverse@americanbearings.org](mailto:jconverse@americanbearings.org)

ANSI/ABMA 22.2-1988 (S2010), Spherical Plain Radial Bearings, Joint Type - Inch Design

*Approved: 5/19/2010*

James Converse, (919) 481-2852, [jconverse@americanbearings.org](mailto:jconverse@americanbearings.org)

ANSI/ABMA 23.2-1988 (S2010), Thrust Bearings of Tapered Roller Type - Inch Design

*Approved: 5/19/2010*

James Converse, (919) 481-2852, [jconverse@americanbearings.org](mailto:jconverse@americanbearings.org)

ANSI/ABMA 24.1-1989 (S2010), Thrust Bearings of Ball, Cylindrical Roller and Spherical Roller Types - Metric Design

*Approved: 5/19/2010*

James Converse, (919) 481-2852, [jconverse@americanbearings.org](mailto:jconverse@americanbearings.org)

ANSI/ABMA 24.2-1989 (S2010), Thrust Bearings of Ball and Cylindrical Roller Types - Inch Design

*Approved: 5/19/2010*

James Converse, (919) 481-2852, [jconverse@americanbearings.org](mailto:jconverse@americanbearings.org)

ANSI/ABMA 25.2-1990 (S2010), Rolling Bearings, Linear Motion Recirculating Ball, Sleeve Type - Inch Series

*Approved: 5/19/2010*

James Converse, (919) 481-2852, [jconverse@americanbearings.org](mailto:jconverse@americanbearings.org)

ANSI/ABMA 26.2-1994 (S2013), Thin Section  
Ball Bearings - Inch design  
*Approved: 1/10/2014*

*James Converse, (919) 481-2852,  
jconverse@americanbearings.org*

ANSI/ABMA 4-1994 (S2013), Tolerance  
Definition and Gauging Practices for Ball and  
Roller Bearings  
*Approved: 1/10/2014*

*James Converse, (919) 481-2852,  
jconverse@americanbearings.org*

ANSI/ABMA 7-1995 (S2013), Shaft and Housing  
Fits for Metric Radial Ball and Roller Bearings  
(Except Tapered Roller Bearings) Conforming  
to Basic Boundary Plans  
*Approved: 1/10/2014*

*James Converse, (919) 481-2852,  
jconverse@americanbearings.org*

ANSI/ABMA 8.1-1990 (S2010), Ball and Roller  
Bearing Mounting Accessories - Metric  
Design  
*Approved: 5/19/2010*

*James Converse, (919) 481-2852,  
jconverse@americanbearings.org*

ANSI/ABMA 8.2-1999 (S2010), Ball and Roller  
Bearing Mounting Accessories - Inch Design  
*Approved: 5/19/2010*

*James Converse, (919) 481-2852,  
jconverse@americanbearings.org*

ANSI ABMA 9-2015, Load Ratings and Fatigue  
Life for Ball Bearings  
*Approved: 6/9/2015*

*James Converse, (919) 481-2852,  
jconverse@americanbearings.org*

ANSI/ABMA/ISO 10285-2009 (R2015), Rolling  
bearings - Sleeve type linear ball bearings -  
Boundary dimensions and tolerances  
*Approved: 1/8/2015*

*James Converse, (919) 481-2852,  
jconverse@americanbearings.org*

ANSI/ABMA/ISO 104-2016, Rolling bearings -  
Thrust bearings - Boundary dimensions,  
general plan  
*Approved: 2/26/2016*

*James Converse, (919) 481-2852,  
jconverse@americanbearings.org*

ANSI/ABMA/ISO 12240-1-1998 (S201x),  
Spherical Plain Bearings - Part 1: Radial  
Spherical Plain Bearings  
*Approved: 5/19/2010*

*James Converse, (919) 481-2852,  
jconverse@americanbearings.org*

ANSI/ABMA/ISO 12240-2-1998 (S2010),  
Spherical plain bearings - Part 2: Angular  
contact spherical plain bearings  
*Approved: 5/19/2010*

*James Converse, (919) 481-2852,  
jconverse@americanbearings.org*

ANSI/ABMA/ISO 12240-3-1998 (S2010),  
Spherical plain bearings - Part 3: Thrust  
spherical plain bearings  
*Approved: 5/19/2010*

*James Converse, (919) 481-2852,  
jconverse@americanbearings.org*

ANSI/ABMA/ISO 12240-4-1998 (S2010),  
Spherical plain bearings - Part 4: Spherical  
plain bearing rod ends  
*Approved: 5/19/2010*

*James Converse, (919) 481-2852,  
jconverse@americanbearings.org*

ANSI/ABMA/ISO 15242-1-2016, Rolling bearings  
- Measuring methods for vibration - Part 1:  
Fundamentals  
*Approved: 4/18/2016*

*James Converse, (919) 481-2852,  
jconverse@americanbearings.org*

ANSI/ABMA/ISO 15242-2-2016, Rolling bearings  
- Measuring methods for vibration - Part 2:  
Radial ball bearings with cylindrical bore and  
outside surface  
*Approved: 4/18/2016*

*James Converse, (919) 481-2852,  
jconverse@americanbearings.org*

ANSI/ABMA/ISO 15242-3-2018, Rolling bearings  
-- Measuring methods for vibration -- Part 3:  
Radial spherical and tapered roller bearings  
with cylindrical bore and outside surface  
*Approved: 7/11/2018*

*James Converse, (919) 481-2852,  
jconverse@americanbearings.org*

ANSI ABMA/ISO 15242-4-2018, , Rolling  
Bearings -- Measuring Methods For Vibration  
-- Part 4: Radial Cylindrical Roller Bearings  
With Cylindrical Bore And Outside Surface  
*Approved: 2/27/2018*

*James Converse, (919) 481-2852,  
jconverse@americanbearings.org*

ANSI/ABMA/ISO 15243-2017, Rolling bearings -  
Damage and failures - Terms, characteristics  
and causes  
*Approved: 8/4/2017*

*James Converse, (919) 481-2852,  
jconverse@americanbearings.org*

ANSI/ABMA/ISO 199-2014, Rolling bearings -  
Thrust bearings - Geometrical product  
specification (GPS) and tolerance values  
*Approved: 12/4/2014*

*James Converse, (919) 481-2852,  
jconverse@americanbearings.org*

ANSI/ABMA/ISO 3096:2014, Rolling bearings -  
Needle rollers - Dimensions and tolerances  
*Approved: 11/17/2014*

*James Converse, (919) 481-2852,  
jconverse@americanbearings.org*

ANSI/ABMA/ISO 3290-1:2014, Rolling bearings -  
Balls - Part 1: Steel balls  
*Approved: 8/1/2014*

*James Converse, (919) 481-2852,  
jconverse@americanbearings.org*

ANSI/ABMA/ISO 3290-2:2014, Rolling bearings -  
Balls - Part 2: Ceramic balls  
*Approved: 9/5/2014*

*James Converse, (919) 481-2852,  
jconverse@americanbearings.org*

ANSI/ABMA/ISO 5593-1997 (S2013), Rolling  
bearings - Vocabulary (Bilingual edition)  
*Approved: 1/10/2014*

*James Converse, (919) 481-2852,  
jconverse@americanbearings.org*

ANSI B3.1-1992 (S2010), Rolling Element  
Bearings - Aircraft Engine, Engine Gearbox,  
and Accessory Applications - Eddy Current  
Inspection  
*Approved: 5/19/2010*

*James Converse, (919) 481-2852,  
jconverse@americanbearings.org*

ANSI B3.2-1992 (S2010), Rolling Element  
Bearings - Aircraft Engine, Engine Gearbox,  
and Accessory Applications - Surface Visual  
Inspection  
*Approved: 5/19/2010*

*James Converse, (919) 481-2852,  
jconverse@americanbearings.org*

ANSI B3.3-1992 (S2010), Rolling Element  
Bearings - Aircraft Engine, Engine Gearbox,  
and Accessory Applications - Surface Temper  
Etch  
*Approved: 5/19/2010*

*James Converse, (919) 481-2852,  
jconverse@americanbearings.org*

## **ABMSP (AMERICAN BOARD OF MULTIPLE SPECIALTIES IN PODIATRY)**

ANSI/ABMSP SDO 001-2018, Inserts for Diabetic  
Footwear  
*Approved: 2/13/2019*

*Stephen B. Permison, Acting Director, ABMSP SDO,  
15012 Carry Back Drive, N. Potomac, MD 20878*

## **ABYC (AMERICAN BOAT AND YACHT COUNCIL)**

ANSI/ABYC A-1-2018, MARINE LIQUEFIED  
PETROLEUM GAS (LPG) SYSTEMS  
*Approved: 6/15/2018*

*Helen Koepper, (410) 990-4460, hkoeppe@abycinc.  
org*

ANSI/ABYC A-14-2015, Gasoline and Propane Gas Detection Systems  
Approved: 12/30/2015  
Helen Koepper, (410) 990-4460, [hkoepper@abycinc.org](mailto:hkoepper@abycinc.org)

ANSI/ABYC A-16-2016, Electric Navigation Lights  
Approved: 6/27/2016  
Helen Koepper, (410) 990-4460, [hkoepper@abycinc.org](mailto:hkoepper@abycinc.org)

ANSI/ABYC A-22-2018, Marine Compressed Natural Gas (CNG) Systems  
Approved: 6/22/2018  
Helen Koepper, (410) 990-4460, [hkoepper@abycinc.org](mailto:hkoepper@abycinc.org)

ANSI/ABYC A-23-2018, Sound Signal Appliances  
Approved: 7/13/2018  
Helen Koepper, (410) 990-4460, [hkoepper@abycinc.org](mailto:hkoepper@abycinc.org)

ANSI/ABYC A-24-2015, Carbon Monoxide Detection Systems on Boats  
Approved: 12/30/2015  
Helen Koepper, (410) 990-4460, [hkoepper@abycinc.org](mailto:hkoepper@abycinc.org)

ANSI/ABYC A-26-2018, LPG AND CNG FUELED APPLIANCES  
Approved: 6/15/2018  
Helen Koepper, (410) 990-4460, [hkoepper@abycinc.org](mailto:hkoepper@abycinc.org)

ANSI/ABYC A-27-2016, Alternating Current (AC) Generator Sets  
Approved: 6/20/2016  
Helen Koepper, (410) 990-4460, [hkoepper@abycinc.org](mailto:hkoepper@abycinc.org)

ANSI/ABYC A-28-2019, Galvanic Isolators  
Approved: 6/28/2019  
Helen Koepper, (410) 990-4460, [hkoepper@abycinc.org](mailto:hkoepper@abycinc.org)

ANSI/ABYC A-3-2013, Galley Stoves  
Approved: 5/28/2013  
Helen Koepper, (410) 990-4460, [hkoepper@abycinc.org](mailto:hkoepper@abycinc.org)

ANSI/ABYC A-30-2018, COOKING APPLIANCES WITH INTEGRAL LPG CYLINDERS  
Approved: 6/15/2018  
Helen Koepper, (410) 990-4460, [hkoepper@abycinc.org](mailto:hkoepper@abycinc.org)

ANSI/ABYC A-31-2015, Battery Chargers and Inverters  
Approved: 12/30/2015  
Helen Koepper, (410) 990-4460, [hkoepper@abycinc.org](mailto:hkoepper@abycinc.org)

ANSI/ABYC A-32-2017, AC Power Conversion Equipment and Systems  
Approved: 7/11/2017  
Helen Koepper, (410) 990-4460, [hkoepper@abycinc.org](mailto:hkoepper@abycinc.org)

ANSI/ABYC A-33-2018, Emergency Engine/Propulsion Cut-off Devices  
Approved: 7/10/2018  
Helen Koepper, (410) 990-4460, [hkoepper@abycinc.org](mailto:hkoepper@abycinc.org)

ANSI/ABYC A-4-2018, Fire Fighting Equipment  
Approved: 7/18/2018  
Helen Koepper, (410) 990-4460, [hkoepper@abycinc.org](mailto:hkoepper@abycinc.org)

ANSI/ABYC A-6-2018, Refrigeration And Air Conditioning Equipment  
Approved: 6/15/2018  
Helen Koepper, (410) 990-4460, [hkoepper@abycinc.org](mailto:hkoepper@abycinc.org)

ANSI/ABYC C-1-2016, Primer Bulbs  
Approved: 6/22/2016  
Helen Koepper, (410) 990-4460, [hkoepper@abycinc.org](mailto:hkoepper@abycinc.org)

ANSI/ABYC C-1500-2019, Ignition Protection for Marine Products  
Approved: 7/1/2019  
Helen Koepper, (410) 990-4460, [hkoepper@abycinc.org](mailto:hkoepper@abycinc.org)

ANSI/ABYC C-2-2016, Carbon Canisters  
Approved: 6/22/2016  
Helen Koepper, (410) 990-4460, [hkoepper@abycinc.org](mailto:hkoepper@abycinc.org)

ANSI/ABYC C-3-2018, Alcohol, Kerosene and Solidified Fuel Cooking Appliances for Marine Use  
Approved: 7/10/2018  
Helen Koepper, (410) 990-4460, [hkoepper@abycinc.org](mailto:hkoepper@abycinc.org)

ANSI/ABYC E-10-2016, Storage Batteries  
Approved: 6/27/2016  
Helen Koepper, (410) 990-4460, [hkoepper@abycinc.org](mailto:hkoepper@abycinc.org)

ANSI/ABYC E-11-2018, AC & DC Electrical Systems on Boats  
Approved: 7/13/2018  
Helen Koepper, (410) 990-4460, [hkoepper@abycinc.org](mailto:hkoepper@abycinc.org)

ANSI/ABYC E-2-2019, Cathodic Protection  
Approved: 5/21/2019  
Helen Koepper, (410) 990-4460, [hkoepper@abycinc.org](mailto:hkoepper@abycinc.org)

ANSI/ABYC E-2-2019, Cathodic Protection  
Approved: 5/21/2019  
Helen Koepper, (410) 990-4460, [hkoepper@abycinc.org](mailto:hkoepper@abycinc.org)

ANSI/ABYC E-30-2018, Electric Propulsion Systems  
Approved: 6/15/2018  
Helen Koepper, (410) 990-4460, [hkoepper@abycinc.org](mailto:hkoepper@abycinc.org)

ANSI/ABYC EDU-1-2015, On-Water Power Standards  
Approved: 11/12/2015  
Helen Koepper, (410) 990-4460, [hkoepper@abycinc.org](mailto:hkoepper@abycinc.org)

ANSI/ABYC EDU-2-2016, Skill-Based Human Propelled Standard  
Approved: 10/11/2016  
Helen Koepper, (410) 990-4460, [hkoepper@abycinc.org](mailto:hkoepper@abycinc.org)

ANSI/ABYC EDU-3-2017, Skills-based Sail Standard  
Approved: 5/25/2017  
Helen Koepper, (410) 990-4460, [hkoepper@abycinc.org](mailto:hkoepper@abycinc.org)

ANSI/ABYC EDU-4-2018, On-Water Instruction Standard  
Approved: 1/24/2018  
Helen Koepper, (410) 990-4460, [hkoepper@abycinc.org](mailto:hkoepper@abycinc.org)

ANSI/ABYC H-1-2019, FIELD OF VISION FROM THE HELM POSITION  
Approved: 7/9/2019  
Helen Koepper, (410) 990-4460, [hkoepper@abycinc.org](mailto:hkoepper@abycinc.org)

ANSI/ABYC H-2-2013, Ventilation of Boats Using Gasoline  
Approved: 6/3/2013  
Helen Koepper, (410) 990-4460, [hkoepper@abycinc.org](mailto:hkoepper@abycinc.org)

ANSI/ABYC H-22-2011, Electric Bilge Pump Systems  
Approved: 7/29/2011  
Helen Koepper, (410) 990-4460, [hkoepper@abycinc.org](mailto:hkoepper@abycinc.org)

ANSI/ABYC H-24-2017, Gasoline Fuel Systems  
Approved: 6/30/2017  
Helen Koepper, (410) 990-4460, [hkoepper@abycinc.org](mailto:hkoepper@abycinc.org)

ANSI/ABYC H-25-2016, Portable Marine Gasoline Fuel Systems  
Approved: 6/22/2016  
Helen Koepper, (410) 990-4460, [hkoepper@abycinc.org](mailto:hkoepper@abycinc.org)

ANSI/ABYC H-26-2016, Powering of Boats  
Approved: 7/13/2016  
Helen Koepper, (410) 990-4460, [hkoepper@abycinc.org](mailto:hkoepper@abycinc.org)

ANSI/ABYC H-28-2016, Inflatable Boats

Approved: 6/22/2016

Helen Koepper, (410) 990-4460, [hkoepper@abycinc.org](mailto:hkoepper@abycinc.org)

ANSI/ABYC H-29-2019, CANOES AND KAYAKS

Approved: 7/9/2019

Helen Koepper, (410) 990-4460, [hkoepper@abycinc.org](mailto:hkoepper@abycinc.org)

ANSI/ABYC H-3-2019, Exterior Windows, Windshields, Hatches, Doors, Port Lights, and Glazing Materials

Approved: 5/21/2019

Helen Koepper, (410) 990-4460, [hkoepper@abycinc.org](mailto:hkoepper@abycinc.org)

ANSI/ABYC H-30-2017, Hydraulic Systems

Approved: 6/15/2017

Helen Koepper, (410) 990-4460, [hkoepper@abycinc.org](mailto:hkoepper@abycinc.org)

ANSI/ABYC H-31-2017, Seat Structures

Approved: 7/11/2017

Helen Koepper, (410) 990-4460, [hkoepper@abycinc.org](mailto:hkoepper@abycinc.org)

ANSI/ABYC H-32-2013 (R2018), Ventilation of Boats Using Diesel Fuel

Approved: 6/15/2018

Helen Koepper, (410) 990-4460, [hkoepper@abycinc.org](mailto:hkoepper@abycinc.org)

ANSI/ABYC H-33-2016, Diesel Fuel Systems

Approved: 6/27/2016

Helen Koepper, (410) 990-4460, [hkoepper@abycinc.org](mailto:hkoepper@abycinc.org)

ANSI/ABYC H-35-2017, Powering and Load Capacity of Pontoon Boats

Approved: 6/15/2017

Helen Koepper, (410) 990-4460, [hkoepper@abycinc.org](mailto:hkoepper@abycinc.org)

ANSI/ABYC H-37-2017, Jet Boats - Light Weight

Approved: 6/15/2017

Helen Koepper, (410) 990-4460, [hkoepper@abycinc.org](mailto:hkoepper@abycinc.org)

ANSI/ABYC H-4-2015, Cockpit Drainage Systems

Approved: 12/30/2015

Helen Koepper, (410) 990-4460, [hkoepper@abycinc.org](mailto:hkoepper@abycinc.org)

ANSI/ABYC H-40-2019, ANCHORING, MOORING, AND STRONG POINTS

Approved: 5/21/2019

Helen Koepper, (410) 990-4460, [hkoepper@abycinc.org](mailto:hkoepper@abycinc.org)

ANSI/ABYC H-5-2017, Boat Load Capacity

Approved: 6/15/2017

Helen Koepper, (410) 990-4460, [hkoepper@abycinc.org](mailto:hkoepper@abycinc.org)

ANSI/ABYC H-8-2017, Buoyancy in the Event of Flooding/Swamping

Approved: 6/15/2017

Helen Koepper, (410) 990-4460, [hkoepper@abycinc.org](mailto:hkoepper@abycinc.org)

ANSI/ABYC P-1-2009, Installation of Exhaust Systems for Propulsion and Auxiliary Engines

Approved: 5/29/2009

Helen Koepper, (410) 990-4460, [hkoepper@abycinc.org](mailto:hkoepper@abycinc.org)

ANSI/ABYC P-1-2019, Installation of Exhaust Systems for Propulsion and Auxiliary Engines

Approved: 7/9/2019

Helen Koepper, (410) 990-4460, [hkoepper@abycinc.org](mailto:hkoepper@abycinc.org)

ANSI/ABYC P-14-2016, Mechanical Propulsion Control Systems

Approved: 6/22/2016

Helen Koepper, (410) 990-4460, [hkoepper@abycinc.org](mailto:hkoepper@abycinc.org)

ANSI/ABYC P-17-2018, Mechanical Steering Systems

Approved: 6/27/2018

Helen Koepper, (410) 990-4460, [hkoepper@abycinc.org](mailto:hkoepper@abycinc.org)

ANSI/ABYC P-18-2013, Cable Over Pulley Steering Systems for Outboard Engines

Approved: 6/3/2013

Helen Koepper, (410) 990-4460, [hkoepper@abycinc.org](mailto:hkoepper@abycinc.org)

ANSI/ABYC P-21-2017, Manual Hydraulic Steering Systems

Approved: 6/22/2017

Helen Koepper, (410) 990-4460, [hkoepper@abycinc.org](mailto:hkoepper@abycinc.org)

ANSI/ABYC P-22-2018, Steering Wheels

Approved: 6/15/2018

Helen Koepper, (410) 990-4460, [hkoepper@abycinc.org](mailto:hkoepper@abycinc.org)

ANSI/ABYC P-23-2017, Mechanical Steering and Propulsion Controls for Jet Boats

Approved: 7/12/2017

Helen Koepper, (410) 990-4460, [hkoepper@abycinc.org](mailto:hkoepper@abycinc.org)

ANSI/ABYC P-24-203, Electric/Electronic Propulsion Control Systems

Approved: 3/13/2013

Helen Koepper, (410) 990-4460, [hkoepper@abycinc.org](mailto:hkoepper@abycinc.org)

ANSI/ABYC P-27-2013, Electric/Electronic Steering Control Systems

Approved: 6/3/2013

Helen Koepper, (410) 990-4460, [hkoepper@abycinc.org](mailto:hkoepper@abycinc.org)

ANSI/ABYC P-4-2019, Marine Inboard Engines and Transmissions

Approved: 7/9/2019

Helen Koepper, (410) 990-4460, [hkoepper@abycinc.org](mailto:hkoepper@abycinc.org)

ANSI/ABYC P-6-2016, Propeller Shafting Systems

Approved: 6/27/2016

Helen Koepper, (410) 990-4460, [hkoepper@abycinc.org](mailto:hkoepper@abycinc.org)

ANSI/ABYC S-30-2017, Outboard Engine and Related Equipment Weights

Approved: 7/12/2017

Helen Koepper, (410) 990-4460, [hkoepper@abycinc.org](mailto:hkoepper@abycinc.org)

ANSI/ABYC S-31-2017, Environmental Consideration for Systems and Components Installed Onboard Boats

Approved: 7/12/2017

Helen Koepper, (410) 990-4460, [hkoepper@abycinc.org](mailto:hkoepper@abycinc.org)

ANSI/ABYC S-7-2015, Boat Capacity Labels

Approved: 12/30/2015

Helen Koepper, (410) 990-4460, [hkoepper@abycinc.org](mailto:hkoepper@abycinc.org)

ANSI/ABYC S-8-2016, Boat Measurement and Weight

Approved: 6/20/2016

Helen Koepper, (410) 990-4460, [hkoepper@abycinc.org](mailto:hkoepper@abycinc.org)

ANSI/ABYC T-1-2010, Aluminum Applications for Boats and Yachts

Approved: 3/11/2010

Helen Koepper, (410) 990-4460, [hkoepper@abycinc.org](mailto:hkoepper@abycinc.org)

**ACC (AMERICAN CHEMISTRY COUNCIL)**

ANSI/ACC Z400.1/Z129.1-2010, American National Standard for Hazardous Workplace Chemicals - Hazard Evaluation and Safety Data Sheet and Precautionary Labeling Preparation

Approved: 5/28/2010

Susan Blanco, (703) 741-5227, [susan\\_blanco@americanchemistry.com](mailto:susan_blanco@americanchemistry.com)

**ACCA (AIR CONDITIONING CONTRACTORS OF AMERICA)**

ANSI/ACCA 1 Manual D-2016, Residential Duct Systems

Approved: 10/21/2016

[www.acca.org/ansi](http://www.acca.org/ansi)

ANSI/ACCA 10 Manual SPS-2010 (RA 2017), HVAC Design for Swimming Pools and Spas

Approved: 9/27/2017

[www.acca.org/ansi](http://www.acca.org/ansi)

ANSI/ACCA 11 Manual Zr-2018, Residential Zoning

Approved: 2/20/2018

[www.acca.org/ansi](http://www.acca.org/ansi)

ANSI/ACCA 12 QH-2018, Home Evaluation and Performance Improvement

Approved: 1/26/2018

[www.acca.org/ansi](http://www.acca.org/ansi)

ANSI/ACCA 14 QMref-2015, Quality Maintenance of Commercial Refrigeration Systems

Approved: 10/14/2015

[www.acca.org/ansi](http://www.acca.org/ansi)

ANSI/ACCA 2 Manual J-2016, Residential Load Calculations

Approved: 2/5/2016

[www.acca.org/ansi](http://www.acca.org/ansi)

ANSI/ACCA 3 Manual S-2014, Residential Equipment Selection

Approved: 5/12/2014

[www.acca.org/ansi](http://www.acca.org/ansi)

ANSI/ACCA 4 QM-2019, Maintenance of Residential HVAC Systems

Approved: 2/5/2019

[www.acca.org/ansi](http://www.acca.org/ansi)

ANSI/ACCA 5 QI-2015, HVAC Quality Installation Specifications

Approved: 6/19/2015

[www.acca.org/ansi](http://www.acca.org/ansi)

ANSI/ACCA 5 QI Addendum-2010, HVAC Quality Installation Specification

Approved: 5/28/2013

[www.acca.org/ansi](http://www.acca.org/ansi)

ANSI/ACCA 6 QR-2015, Restoring the Cleanliness of HVAC Systems

Approved: 7/9/2015

[www.acca.org/ansi](http://www.acca.org/ansi)

ANSI/ACCA 9 QIvp Standard-2016, HVAC Quality Installation Verification Protocols

Approved: 4/20/2016

[www.acca.org/ansi](http://www.acca.org/ansi)

### ACCT (ASSOCIATION FOR CHALLENGE COURSE TECHNOLOGY)

ANSI/ACCT 03-2019, Challenge Course and Canopy/Zip Line Tours Standards

Approved: 7/18/2019

### ACDE (ASSOCIATION OF COMMERCIAL DIVING EDUCATORS)

ANSI/ACDE 01-2015, Commercial Diver Training Minimum Standard

Approved: 1/7/2015

Donald Fast c/o The Ocean Corporation 10840 Rockley Rd, Houston, Texas, 77099

### ACMA (AMERICAN COMPOSITES MANUFACTURERS ASSOCIATION)

ANSI/ACMA UEF-1-2019, Estimating Emission Factors from Open Molding and Other Composite Processes

Approved: 7/31/2019

John Busel, (914) 961-8007, [jbusel@acmanet.org](mailto:jbusel@acmanet.org)

ANSI/ACMA/FGMC-Grating Manual-2017, Fiberglass Composites Grating Manual for Pultruded and Molded Grating and Stair Treads

Approved: 8/30/2017

John Busel, (914) 961-8007, [jbusel@acmanet.org](mailto:jbusel@acmanet.org)

ANSI/ACMA/UCSC-FRP Composite Utility Poles -1-2018, ANSI/ACMA/UCSC-Standard Specification for FRP Composite Utility Poles

Approved: 9/13/2018

John Busel, (914) 961-8007, [jbusel@acmanet.org](mailto:jbusel@acmanet.org)

ANSI/AMCA PIC-Standard Practice-2011, Code of Standard Practice - Industry Guidelines for Fabrication and Installation of Pultruded FRP Structures

Approved: 2/23/2012

John Busel, (914) 961-8007, [jbusel@acmanet.org](mailto:jbusel@acmanet.org)

### ADA (ORGANIZATION) (AMERICAN DENTAL ASSOCIATION)

ANSI/ADA 100, ISO 27020-2012 (R2018), Orthodontic Brackets and Tubes

Approved: 10/31/2018

Marilyn Ward

ANSI/ADA 125-2018, Manual Interdental Brushes

Approved: 10/31/2018

Marilyn Ward

ANSI/ADA 125, ISO 16409-2012, Manual Interdental Brushes

Approved: 11/26/2012

Marilyn Ward

ANSI/ADA 144-2018, Alloy for Dental Amalgam

Approved: 10/31/2018

Marilyn Ward

ANSI/ADA 167-2018, Dental Unit Water Line Test Methods

Approved: 5/18/2018

Marilyn Ward

ANSI/ADA 169-2019, Periodontal probes General requirements

Approved: 8/26/2019

Marilyn Ward

ANSI/ADA 170-2019, Periodontal Probes -- Dental excavators -- Discoid Type -- General Requirements

Approved: 8/26/2019

Marilyn Ward

ANSI/ADA 171-2019, Analysis of Fluoride Concentration in Aqueous Solutions by Use of Fluoride Ion-Selective Electrode

Approved: 8/26/2019

Marilyn Ward

ANSI/ADA 172-2019, Minimal Dental Implant Data Set for Clinical Use

Approved: 8/26/2019

Marilyn Ward

ANSI/ADA 173-2019, Designation System for Dental Implants

Approved: 8/26/2019

Marilyn Ward

ANSI/ADA 96, ISO 9917-2012, Dental Water-Based Cements

Approved: 11/26/2012

Marilyn Ward

ANSI/ADA No. 135-2015, Denture Adhesives

Approved: 12/17/2015

Marilyn Ward

ANSI/ADA No. 19-2017, Elastomeric Impression Materials

Approved: 8/4/2017

Marilyn Ward

ANSI/ADA Standard 136-2015, Products for External Tooth Bleaching

Approved: 1/29/2015

Marilyn Ward

ANSI/ADA Standard No 88-2000 (R2012), Dental Brazing Alloys

Approved: 8/22/2012

Marilyn Ward

ANSI/ADA Standard No. 1000-2010 (R2015), Standard Clinical Data Architecture

Approved: 8/11/2015

Marilyn Ward

ANSI/ADA Standard No. 101-2001, Root Canal Instruments: General Requirements

Approved: 9/20/2010

Marilyn Ward

ANSI/ADA Standard No. 1027-2010 (R2015), Implementation Guide for ADA Standard No. 1000 - Standard Clinical Data Architecture <i>Approved: 12/17/2015</i> <i>Marilyn Ward</i>	ANSI/ADA Standard No. 113-2015, Periodontal Curettes, Dental Scalers and Excavators <i>Approved: 12/17/2015</i> <i>Marilyn Ward</i>	ANSI/ADA Standard No. 139-2012, Dental Base Polymers <i>Approved: 6/6/2012</i> <i>Marilyn Ward</i>
ANSI/ADA Standard No. 1039-2006 (R2014), Standard Clinical Conceptual Data Model <i>Approved: 10/6/2014</i> <i>Marilyn Ward</i>	ANSI/ADA Standard No. 116-2010, Oral Rinses <i>Approved: 2/25/2010</i> <i>Marilyn Ward</i>	ANSI/ADA Standard No. 141 (ISO 14356)-2013 (R2018), Dental Duplicating Material <i>Approved: 10/31/2018</i> <i>Marilyn Ward</i>
ANSI/ADA Standard No. 1047-2009, Standard Content of an Electronic Periodontal Attachment <i>Approved: 1/19/2010</i> <i>Marilyn Ward</i>	ANSI/ADA Standard No. 117-2018, Fluoride Varnishes <i>Approved: 5/18/2018</i> <i>Marilyn Ward</i>	ANSI/ADA Standard No. 15-2008 (R2013), Artificial Teeth for Dental Prostheses <i>Approved: 5/28/2013</i> <i>Marilyn Ward</i>
ANSI/ADA Standard No. 105-2010 (R2015), Orthodontic Elastomeric Materials <i>Approved: 10/26/2015</i> <i>Marilyn Ward</i>	ANSI/ADA Standard No. 119-2015, Manual Toothbrushes <i>Approved: 1/29/2015</i> <i>Marilyn Ward</i>	ANSI/ADA Standard No. 151-2015, Screening Method for Erosion Potential of Oral Rinses on Dental Hard Tissues <i>Approved: 5/29/2015</i> <i>Marilyn Ward</i>
ANSI/ADA Standard No. 1058-2010 (R2015), Forensic Dental Data Set <i>Approved: 12/17/2015</i> <i>Marilyn Ward</i>	ANSI/ADA Standard No. 120-2009 (R2014), Powered Toothbrushes <i>Approved: 9/8/2014</i> <i>Marilyn Ward</i>	ANSI/ADA Standard No. 159-2018, Coiled Springs for Use in Orthodontics <i>Approved: 5/18/2018</i> <i>Marilyn Ward</i>
ANSI/ADA Standard No. 1067-2013 (R2018), Electronic Dental System Standard Functional Requirements <i>Approved: 10/31/2018</i> <i>Marilyn Ward</i>	ANSI/ADA Standard No. 122-2007 (R2019), Dental Casting and Baseplate Waxes <i>Approved: 8/26/2019</i> <i>Marilyn Ward</i>	ANSI/ADA Standard No. 161-2018, Guidance on Color Measurement in Dentistry <i>Approved: 5/18/2018</i> <i>Marilyn Ward</i>
ANSI/ADA Standard No. 1079-2015, Standard Content of Electronic Attachments for Dental Claims <i>Approved: 12/17/2015</i> <i>Marilyn Ward</i>	ANSI/ADA Standard No. 126-2018, Casting Investments and Refractory Die Materials <i>Approved: 5/18/2018</i> <i>Marilyn Ward</i>	ANSI/ADA Standard No. 163-2018, Dental Furnace-Test Method for Temperature Measurement with Separate Thermocouple <i>Approved: 5/18/2018</i> <i>Marilyn Ward</i>
ANSI/ADA Standard No. 108-2009, Amalgam Separators <i>Approved: 2/24/2009</i> <i>Marilyn Ward</i>	ANSI/ADA Standard No. 127-2018, Dynamic Load Test for Endosseous Dental Implants <i>Approved: 5/18/2018</i> <i>Marilyn Ward</i>	ANSI/ADA Standard No. 164-2018, Dental Furnace-Part 2: Test Method for Evaluation of Furnace Program via Firing Glaze <i>Approved: 5/18/2018</i> <i>Marilyn Ward</i>
ANSI/ADA Standard No. 108, Addendum-2011, Amalgam Separators <i>Approved: 11/14/2011</i> <i>Marilyn Ward</i>	ANSI/ADA Standard No. 128-2015, Hydrocolloid Impression Materials <i>Approved: 1/29/2015</i> <i>Marilyn Ward</i>	ANSI/ADA Standard No. 17-1983 (R2014), Denture Base Temporary Relining Resins <i>Approved: 9/8/2014</i> <i>Marilyn Ward</i>
ANSI/ADA Standard No. 1084-2019, Reference Core Data Set for Communication Among Dental and Other Health Information Systems <i>Approved: 5/21/2019</i> <i>Marilyn Ward</i>	ANSI/ADA Standard No. 130-2013, Dentifrices - Requirements, Test Methods and Marking <i>Approved: 8/12/2013</i> <i>Marilyn Ward</i>	ANSI/ADA Standard No. 178-2019, Orthodontic Anchor Screws <i>Approved: 8/26/2019</i> <i>Marilyn Ward</i>
ANSI/ADA Standard No. 109-2006 (R2018), Procedures for Storing Dental Amalgam Waste and Requirements for Amalgam Waste Storage/Shipments Containers <i>Approved: 10/31/2018</i> <i>Marilyn Ward</i>	ANSI/ADA Standard No. 131-2015, Dental CAD/CAM Machinable Zirconia Blanks <i>Approved: 5/29/2015</i> <i>Marilyn Ward</i>	ANSI/ADA Standard No. 2000.2-2018, SNODENT (Systemized Nomenclature of Dentistry) <i>Approved: 12/3/2018</i> <i>Marilyn Ward</i>
	ANSI/ADA Standard No. 132-2015, Scanning Accuracy of Dental Chairside and Laboratory CAD/CAM Systems <i>Approved: 5/29/2015</i> <i>Marilyn Ward</i>	ANSI/ADA Standard No. 23-1982 (R2015), Dental Excavating Burs <i>Approved: 10/26/2015</i> <i>Marilyn Ward</i>
	ANSI/ADA Standard No. 134-2018, Metallic Materials for Fixed and Removable Restorations and Appliances <i>Approved: 5/18/2018</i> <i>Marilyn Ward</i>	

ANSI/ADA Standard No. 25-2015, Dental Gypsum Products <i>Approved: 12/17/2015</i> <i>Marilyn Ward</i>	ANSI/ADA Standard No. 41-2015, Evaluation of Biocompatibility of Medical Devices Used in Dentistry <i>Approved: 12/23/2015</i> <i>Marilyn Ward</i>	ANSI/ADA Standard No. 69-2017, Dental Ceramic <i>Approved: 12/21/2017</i> <i>Marilyn Ward</i>
ANSI/ADA Standard No. 27-2016, Polymer-Based Restorative Materials <i>Approved: 6/22/2016</i> <i>Marilyn Ward</i>	ANSI/ADA Standard No. 43-1986 (R2015), Electrically Powered Dental Amalgamators <i>Approved: 12/15/2015</i> <i>Marilyn Ward</i>	ANSI/ADA Standard No. 70-1999 (R2010), Dental X-Ray Protective Aprons and Accessory Devices <i>Approved: 9/20/2010</i> <i>Marilyn Ward</i>
ANSI/ADA Standard No. 28-2008 (R2013), Root Canal Files and Reamers, Type K <i>Approved: 6/12/2013</i> <i>Marilyn Ward</i>	ANSI/ADA Standard No. 46-2016, Dental Patient Chair <i>Approved: 6/22/2016</i> <i>Marilyn Ward</i>	ANSI/ADA Standard No. 71-2008 (R2013), Root Canal Filling Condensers (Pluggers and Spreaders) <i>Approved: 6/12/2013</i> <i>Marilyn Ward</i>
ANSI/ADA Standard No. 30-2013 (R2018), Dental Zinc Oxide - Eugenol and Zinc Oxide - Non-Eugenol Cements <i>Approved: 10/31/2018</i> <i>Marilyn Ward</i>	ANSI/ADA Standard No. 47-2006 (R2017), Dental Units <i>Approved: 1/17/2017</i> <i>Marilyn Ward</i>	ANSI/ADA Standard No. 73-2008 (R2013), Dental Absorbent Points <i>Approved: 12/30/2013</i> <i>Marilyn Ward</i>
ANSI/ADA Standard No. 32-2017, Orthodontic Wires <i>Approved: 9/12/2017</i> <i>Marilyn Ward</i>	ANSI/ADA Standard No. 48-2004 (R2015), Visible Light Curing Units <i>Approved: 10/26/2015</i> <i>Marilyn Ward</i>	ANSI/ADA Standard No. 74-2010 (R2015), Dental Operator's Stool <i>Approved: 10/26/2015</i> <i>Marilyn Ward</i>
ANSI/ADA Standard No. 33-2003 (R2014), Dental Products Standards Development Vocabulary <i>Approved: 9/8/2014</i> <i>Marilyn Ward</i>	ANSI/ADA Standard No. 48-2-2009 (R2015), LED Curing Lights <i>Approved: 10/26/2015</i> <i>Marilyn Ward</i>	ANSI/ADA Standard No. 75-1997 (R2014), Resilient Lining Materials for Removable Dentures - Part 1: Short-Term Materials <i>Approved: 9/8/2014</i> <i>Marilyn Ward</i>
ANSI/ADA Standard No. 34 (ISO 9997)-2013, Dental Cartridge Syringes <i>Approved: 2/19/2013</i> <i>Marilyn Ward</i>	ANSI/ADA Standard No. 53-2008 (R2013), Polymer-Based Crown and Bridge Materials <i>Approved: 8/12/2013</i> <i>Marilyn Ward</i>	ANSI/ADA Standard No. 78-2013, Dental Obturating Cones <i>Approved: 8/12/2013</i> <i>Marilyn Ward</i>
ANSI/ADA Standard No. 35-2019, Dental Handpieces and Motors <i>Approved: 8/26/2019</i> <i>Marilyn Ward</i>	ANSI/ADA Standard No. 54-1986 (R2014), Double-Pointed, Parenteral, Single Use Needles for Dentistry <i>Approved: 9/8/2014</i> <i>Marilyn Ward</i>	ANSI/ADA Standard No. 80-2001 (R2013), Dental Materials-Determination of Color Stability <i>Approved: 5/28/2013</i> <i>Marilyn Ward</i>
ANSI/ADA Standard No. 37-2001 (R2015), Dental Abrasive Powders <i>Approved: 12/15/2015</i> <i>Marilyn Ward</i>	ANSI/ADA Standard No. 57-2000 (R2012), Endodontic Sealing Materials <i>Approved: 8/22/2012</i> <i>Marilyn Ward</i>	ANSI/ADA Standard No. 85-Part 1-2004 (R2009), Disposable Prophylaxis Angles <i>Approved: 12/22/2009</i> <i>Marilyn Ward</i>
ANSI/ADA Standard No. 38-2000 (R2015), Metal-Ceramic Dental Restorative Systems <i>Approved: 10/26/2015</i> <i>Marilyn Ward</i>	ANSI/ADA Standard No. 58-2010 (R2015), Root Canal Files, Type H (Hedstrom) <i>Approved: 10/26/2015</i> <i>Marilyn Ward</i>	ANSI/ADA Standard No. 87-1995 (R2014), Dental Impression Trays <i>Approved: 9/8/2014</i> <i>Marilyn Ward</i>
ANSI/ADA Standard No. 39-2006 (R2011), Pit and Fissure Sealants <i>Approved: 11/11/2011</i> <i>Marilyn Ward</i>	ANSI/ADA Standard No. 62-2005 (R2015), Dental Abrasive Pastes <i>Approved: 12/15/2015</i> <i>Marilyn Ward</i>	ANSI/ADA Standard No. 88-2019, Dental Brazing Alloys <i>Approved: 8/26/2019</i> <i>Marilyn Ward</i>
ANSI/ADA Standard No. 3950-2015, Designation System for Teeth and Areas of the Oral Cavity <i>Approved: 12/30/2015</i> <i>Marilyn Ward</i>	ANSI/ADA Standard No. 63-2013, Root Canal Barbed Broaches and Rasps <i>Approved: 8/12/2013</i> <i>Marilyn Ward</i>	ANSI/ADA Standard No. 89-2017, Dental Operating Lights <i>Approved: 12/21/2017</i> <i>Marilyn Ward</i>

ANSI/ADA Standard No. 94-1996 (R2014),  
Dental Compressed Air Quality

Approved: 9/8/2014

Marilyn Ward

ANSI/ADA Standard No. 95-2013, Root Canal  
Enlargers

Approved: 9/13/2013

Marilyn Ward

ANSI/ADA Standard No. 97-2002 (R2013),  
Corrosion Test Methods

Approved: 5/29/2013

Marilyn Ward

ANSI/ADA Standard No. 99-2001 (R2013),  
Athletic Mouth Protectors and Materials

Approved: 5/28/2013

Marilyn Ward

### **AGA (ASC B109) (AMERICAN GAS ASSOCIATION)**

ANSI B109.1-2019, ASD B109.1 Diaphragm-Type  
Gas Displacement Meters (Under 500 Cubic  
Feet Hour Capacity)

Approved: 4/8/2019

Jeffrey Meyers, (202) 824-7333, [jmeyers@aga.org](mailto:jmeyers@aga.org)

ANSI B109.3-2019, ASD B109.3 Rotary-Type Gas  
Displacement Meters

Approved: 2/5/2019

Jeffrey Meyers, (202) 824-7333, [jmeyers@aga.org](mailto:jmeyers@aga.org)

ANSI B109.4-2017, Self-Operated Diaphragm  
Type Natural Gas Service Regulators

Approved: 2/3/2017

Jeffrey Meyers, (202) 824-7333, [jmeyers@aga.org](mailto:jmeyers@aga.org)

### **AGA (ASC Z223) (AMERICAN GAS ASSOCIATION)**

ANSI Z223.1/NFPA 54-2018, National Fuel Gas  
Code

Approved: 8/3/2017

Paul Cabot, (202) 824-7312, [pcabot@aga.org](mailto:pcabot@aga.org)

### **AGA (ASC Z380) (AMERICAN GAS ASSOCIATION)**

ANSI/GPTC Z380.1-2018, Addendum No. 1  
-2018, Guide for Transmission, Distribution  
and Gathering Piping Systems

Approved: 9/20/2018

Michael Bellman, (202) 824-7183, [mbellman@aga.org](mailto:mbellman@aga.org)

ANSI/GPTC Z380.1-2018, Addendum No. 2  
-2018, Guide for Transmission, Distribution  
and Gathering Piping Systems

Approved: 2/1/2019

Michael Bellman, (202) 824-7183, [mbellman@aga.org](mailto:mbellman@aga.org)

ANSI GPTC Z380.1-2018, Addendum No. 4,  
Guide for Transmission, Distribution and  
Gathering Piping Systems

Approved: 7/31/2019

Michael Bellman, (202) 824-7183, [mbellman@aga.org](mailto:mbellman@aga.org)

ANSI/GPTC Z380.1-2018, Addendum No. 3,  
Guide for Transmission, Distribution and  
Gathering Piping Systems

Approved: 5/21/2019

Michael Bellman, (202) 824-7183, [mbellman@aga.org](mailto:mbellman@aga.org)

### **AGMA (AMERICAN GEAR MANUFACTURERS ASSOCIATION)**

ANSI/AGMA 1003-2007 (R2014), Tooth  
Proportions for Fine-Pitch Spur and Helical  
Gearing

Approved: 3/7/2014

William Bradley, AGMA; [tech@agma.org](mailto:tech@agma.org)

ANSI/AGMA 1006-A97 (R2016), Tooth  
Proportions for Plastic Gears

Approved: 8/29/2016

William Bradley, AGMA; [tech@agma.org](mailto:tech@agma.org)

ANSI/AGMA 1010-2014, Appearance of Gear  
Teeth - Terminology of Wear and Failure

Approved: 8/8/2014

William Bradley, AGMA; [tech@agma.org](mailto:tech@agma.org)

ANSI/AGMA 1012-2005 (R2011), Gear  
Nomenclature, Definitions of Terms with  
Symbols

Approved: 3/15/2011

William Bradley, AGMA; [tech@agma.org](mailto:tech@agma.org)

ANSI/AGMA 1102-2013, Tolerance Specification  
for Gear Hobs

Approved: 4/8/2013

William Bradley, AGMA; [tech@agma.org](mailto:tech@agma.org)

ANSI/AGMA 1103-2007 (R2014), Tooth  
Proportions for Fine-Pitch Spur and Helical  
Gearing - Metric Edition

Approved: 3/7/2014

William Bradley, AGMA; [tech@agma.org](mailto:tech@agma.org)

ANSI/AGMA 1104-2009 (R2015), Tolerance  
Specification for Shaper Cutters

Approved: 2/12/2015

William Bradley, AGMA; [tech@agma.org](mailto:tech@agma.org)

ANSI/AGMA 1106-A97 (R2016), Tooth  
Proportions for Plastic Gears - Metric Edition

Approved: 8/29/2016

William Bradley, AGMA; [tech@agma.org](mailto:tech@agma.org)

ANSI/AGMA 2001-D04-2010 (R2016),  
Fundamental Rating Factors and Calculation  
Methods for Involute Spur and Helical Gear  
Teeth

Approved: 3/16/2016

William Bradley, AGMA; [tech@agma.org](mailto:tech@agma.org)

ANSI/AGMA 2002-C-2016, Tooth Thickness and  
Backlash Measurement of Cylindrical Involute  
Gearing

Approved: 5/3/2016

William Bradley, AGMA; [tech@agma.org](mailto:tech@agma.org)

ANSI/AGMA 2003-D19, Rating the Pitting  
Resistance and Bending Strength of  
Generated Straight Bevel, Zerol Bevel and  
Spiral Bevel Gear Teeth

Approved: 5/14/2019

William Bradley, AGMA; [tech@agma.org](mailto:tech@agma.org)

ANSI/AGMA 2004-2008 (R2014), Gear  
Materials, Heat Treatment and Processing  
Manual

Approved: 3/7/2014

William Bradley, AGMA; [tech@agma.org](mailto:tech@agma.org)

ANSI/AGMA 2007-C00:1995/ISO 14104:1995  
(R2013), Gears - Surface Temper Etch  
Inspection after Grinding

Approved: 8/1/2013

William Bradley, AGMA; [tech@agma.org](mailto:tech@agma.org)

ANSI/AGMA 2008-D11 (R2016), Assembling  
Bevel Gears

Approved: 12/27/2016

William Bradley, AGMA; [tech@agma.org](mailto:tech@agma.org)

ANSI/AGMA 2011-B14-2014, Cylindrical  
Wormgearing Tolerance and Inspection  
Methods

Approved: 10/3/2014

William Bradley, AGMA; [tech@agma.org](mailto:tech@agma.org)

ANSI/AGMA 2015-2-B2015, Accuracy  
Classification System - Radial Measurements  
for Cylindrical Gears

Approved: 9/2/2015

William Bradley, AGMA; [tech@agma.org](mailto:tech@agma.org)

ANSI/AGMA 2101-D04-2010 (R2016),  
Fundamental Rating Factors and Calculation  
Methods for Involute Spur and Helical Gear  
Teeth

Approved: 3/16/2016

William Bradley, AGMA; [tech@agma.org](mailto:tech@agma.org)

ANSI/AGMA 2111-A98 (R2015), Cylindrical  
Wormgearing Tolerance and Inspection  
Methods (Metric)

Approved: 12/4/2015

William Bradley, AGMA; [tech@agma.org](mailto:tech@agma.org)

ANSI/AGMA 2116-A05 (R2017), Evaluation of Double Flank Testers for Radial Composite Measurement of Gears

Approved: 2/2/2017

William Bradley, AGMA; [tech@agma.org](mailto:tech@agma.org)

ANSI/AGMA 6000-B96 (R2016), Specification for Measurement of Linear Vibration on Gear Units

Approved: 3/16/2016

William Bradley, AGMA; [tech@agma.org](mailto:tech@agma.org)

ANSI/AGMA 6001-F-2019, Design and Selection of Components for Enclosed Gear Drives

Approved: 1/18/2019

William Bradley, AGMA; [tech@agma.org](mailto:tech@agma.org)

ANSI/AGMA 6002-C2015, Design Guide for Vehicle Spur and Helical Gears

Approved: 7/6/2015

William Bradley, AGMA; [tech@agma.org](mailto:tech@agma.org)

ANSI/AGMA 6008-A98 (R2017), Specifications for Powder Metallurgy Gears

Approved: 12/14/2017

William Bradley, AGMA; [tech@agma.org](mailto:tech@agma.org)

ANSI/AGMA 6011-2014, Specification for High Speed Helical Gear Units

Approved: 8/8/2014

William Bradley, AGMA; [tech@agma.org](mailto:tech@agma.org)

ANSI/AGMA 6013-B-2016, Standard for Industrial Enclosed Gear Drives

Approved: 4/5/2016

William Bradley, AGMA; [tech@agma.org](mailto:tech@agma.org)

ANSI/AGMA 6014-B-2015, Gear Power Rating for Cylindrical Shell and Trunnion Supported Equipment

Approved: 10/21/2015

William Bradley, AGMA; [tech@agma.org](mailto:tech@agma.org)

ANSI/AGMA 6015-2013 (R2018), Power Rating of Single and Double Helical Gearing for Rolling Mill Service

Approved: 12/17/2018

William Bradley, AGMA; [tech@agma.org](mailto:tech@agma.org)

ANSI/AGMA 6025-D98 (R2016), Sound for Enclosed Helical, Herringbone and Spiral Bevel Gear Drives

Approved: 3/16/2016

William Bradley, AGMA; [tech@agma.org](mailto:tech@agma.org)

ANSI/AGMA 6025-E-2019, Sound for Enclosed Helical, Herringbone and Spiral Bevel Gear Drives

Approved: 1/18/2019

William Bradley, AGMA; [tech@agma.org](mailto:tech@agma.org)

ANSI/AGMA 6032-B-2013 (R2018), Standard for Marine Gear Units: Rating and Application for Spur and Helical Gear Teeth

Approved: 12/14/2018

William Bradley, AGMA; [tech@agma.org](mailto:tech@agma.org)

ANSI/AGMA 6033-2008 (R2014), Materials for Marine Propulsion Gearing

Approved: 3/11/2014

William Bradley, AGMA; [tech@agma.org](mailto:tech@agma.org)

ANSI/AGMA 6034-B92-2010 (R2016), Practice for Enclosed Cylindrical Wormgear Speed Reducers and Gearmotors

Approved: 3/31/2016

William Bradley, AGMA; [tech@agma.org](mailto:tech@agma.org)

ANSI/AGMA 6035-2002 (R2019), Design, Rating and Application of Industrial Globoidal Wormgearing

Approved: 5/14/2019

William Bradley, AGMA; [tech@agma.org](mailto:tech@agma.org)

ANSI/AGMA 6101-F-2019, Design and Selection of Components for Enclosed Gear Drive (Metric Edition)

Approved: 2/1/2019

William Bradley, AGMA; [tech@agma.org](mailto:tech@agma.org)

ANSI/AGMA 6102-C2015, Design Guide for Vehicle Spur and Helical Gears (Metric Edition)

Approved: 7/6/2015

William Bradley, AGMA; [tech@agma.org](mailto:tech@agma.org)

ANSI/AGMA 6113-B-2016, Standard for Industrial Enclosed Gear Drives - Metric Edition

Approved: 4/5/2016

William Bradley, AGMA; [tech@agma.org](mailto:tech@agma.org)

ANSI/AGMA 6114-B-2015, Gear Power Rating for Cylindrical Shell and Trunnion Supported Equipment- Metric Edition

Approved: 10/21/2015

William Bradley, AGMA; [tech@agma.org](mailto:tech@agma.org)

ANSI/AGMA 6115-2013 (R2018), Power Rating of Single and Double Helical Gearing for Rolling Mill Service- Metric Edition

Approved: 12/14/2018

William Bradley, AGMA; [tech@agma.org](mailto:tech@agma.org)

ANSI/AGMA 6123-C2016, Design Manual for Enclosed Epicyclic Gear Drive

Approved: 8/26/2016

William Bradley, AGMA; [tech@agma.org](mailto:tech@agma.org)

ANSI/AGMA 6132-B-2013 (R2018), Standard for Marine Gear Units: Rating and Application for Spur and Helical Gear Teeth- Metric Edition

Approved: 12/14/2018

William Bradley, AGMA; [tech@agma.org](mailto:tech@agma.org)

ANSI/AGMA 6133-2008 (R2014), Materials for Marine Propulsion Gearing- Metric Edition

Approved: 3/11/2014

William Bradley, AGMA; [tech@agma.org](mailto:tech@agma.org)

ANSI/AGMA 6135-2008 (R2019), Design, Rating and Application of Industrial Globoidal Wormgearing (Metric Edition)

Approved: 5/14/2019

William Bradley, AGMA; [tech@agma.org](mailto:tech@agma.org)

ANSI/AGMA 9000-D11-2011 (R2016), Flexible Couplings - Potential Unbalance Classification

Approved: 12/8/2016

William Bradley, AGMA; [tech@agma.org](mailto:tech@agma.org)

ANSI/AGMA 9001-C-2018, Flexible Couplings Lubrication

Approved: 6/15/2018

William Bradley, AGMA; [tech@agma.org](mailto:tech@agma.org)

ANSI/AGMA 9002-C2014, Bores and Keyways for Flexible Couplings (Inch Series)

Approved: 12/8/2014

William Bradley, AGMA; [tech@agma.org](mailto:tech@agma.org)

ANSI/AGMA 9003-C-2017, Flexible Couplings - Keyless Fits

Approved: 12/6/2017

William Bradley, AGMA; [tech@agma.org](mailto:tech@agma.org)

ANSI/AGMA 9004-B-2008 (R2014), Flexible Couplings - Mass Elastic Properties and Other Characteristics

Approved: 5/29/2014

William Bradley, AGMA; [tech@agma.org](mailto:tech@agma.org)

ANSI/AGMA 9005-F-2016, Industrial Gear Lubrication

Approved: 3/23/2016

William Bradley, AGMA; [tech@agma.org](mailto:tech@agma.org)

ANSI/AGMA 9006-A-2016, Flexible Couplings - Basis for Rating

Approved: 4/18/2016

William Bradley, AGMA; [tech@agma.org](mailto:tech@agma.org)

ANSI/AGMA 9008-B99 (R2017), Flexible Couplings - Gear Type - Flange Dimensions (Inch Series)

Approved: 12/19/2017

William Bradley, AGMA; [tech@agma.org](mailto:tech@agma.org)

ANSI/AGMA 9009-D02 (R2014), Flexible Couplings - Nomenclature for Flexible Couplings

Approved: 7/28/2014

William Bradley, AGMA; [tech@agma.org](mailto:tech@agma.org)

ANSI/AGMA 9103-C-2017, Flexible Couplings - Keyless Fits, Metric Edition

Approved: 12/6/2017

William Bradley, AGMA; [tech@agma.org](mailto:tech@agma.org)

ANSI/AGMA 9104-2006 (R2017), Flexible Couplings - Mass Elastic Properties and Other Characteristics (Metric Edition)

Approved: 12/19/2017

William Bradley, AGMA; [tech@agma.org](mailto:tech@agma.org)

ANSI/AGMA 9110-A11-2011 (R2016), Flexible Couplings - Potential Unbalance Classification (Metric Edition)

Approved: 12/8/2016

William Bradley, AGMA; [tech@agma.org](mailto:tech@agma.org)

ANSI/AGMA 9112-B-2015, Bores and Keyways for Flexible Couplings (Metric Series)

Approved: 2/4/2015

William Bradley, AGMA; [tech@agma.org](mailto:tech@agma.org)

ANSI/AGMA ISO 1328-1-2014, Cylindrical gears - ISO system of flank tolerance classification - Part 1: Definitions and allowable values of deviations relevant to flanks of gear teeth

Approved: 9/30/2014

William Bradley, AGMA; [tech@agma.org](mailto:tech@agma.org)

ANSI/AGMA ISO 14104-2017, Gears - Surface temper etch inspection after grinding, chemical method

Approved: 10/24/2018

William Bradley, AGMA; [tech@agma.org](mailto:tech@agma.org)

ANSI/AGMA ISO 17485-A-2008 (R2014), Bevel Gears - ISO System of Accuracy

Approved: 3/12/2014

William Bradley, AGMA; [tech@agma.org](mailto:tech@agma.org)

ANSI/AGMA ISO 18653-2006, Gears - Evaluation of Instruments for the Measurement of Individual Gears

Approved: 9/29/2006

William Bradley, AGMA; [tech@agma.org](mailto:tech@agma.org)

ANSI/AGMA ISO 23509-B-2017, Bevel and Hypoid Gear Geometry

Approved: 12/12/2017

William Bradley, AGMA; [tech@agma.org](mailto:tech@agma.org)

ANSI/AGMA ISO 6336-6-A-2008 (R2014), Calculation of Load Capacity of Spur and Helical Gears - Part 6: Calculation of Service Life Under Variable Load

Approved: 3/11/2014

William Bradley, AGMA; [tech@agma.org](mailto:tech@agma.org)

ANSI/AGMA/AWEA 6006-A03-2004 (R2016), Standard for Design and Specifications of Gearboxes for Wind Turbines

Approved: 6/29/2016

William Bradley, AGMA; [tech@agma.org](mailto:tech@agma.org)

## AGSC-AGRSS (AUTO GLASS SAFETY COUNCIL)

ANSI/AGSC/AGRSS 004-2018, Auto Glass Safety Council/Automotive Glass Replacement Safety Standard

Approved: 8/23/2018

Kathy Bimber, (540) 602-3263, [kbimber@agsc.org](mailto:kbimber@agsc.org)

## AHAM (ASSOCIATION OF HOME APPLIANCE MANUFACTURERS)

ANSI/AHAM AC-1-2015, Method for Measuring Performance of Portable Household Electric Room Air Cleaners

Approved: 5/13/2015

Matthew Williams, (202) 872-5955 x317, [MWilliams@AHAM.org](mailto:MWilliams@AHAM.org)

ANSI/AHAM DW-1-2010, HOUSEHOLD ELECTRIC DISHWASHERS

Approved: 9/10/2010

Matthew Williams, (202) 872-5955 x317, [MWilliams@AHAM.org](mailto:MWilliams@AHAM.org)

ANSI/AHAM PAC-1-2015, Portable Air Conditioners

Approved: 6/19/2015

Matthew Williams, (202) 872-5955 x317, [MWilliams@AHAM.org](mailto:MWilliams@AHAM.org)

ANSI/AHAM RAC-1-2015, Room Air Conditioners

Approved: 5/13/2015

Matthew Williams, (202) 872-5955 x317, [MWilliams@AHAM.org](mailto:MWilliams@AHAM.org)

## AHRI (AIR-CONDITIONING, HEATING, AND REFRIGERATION INSTITUTE)

ANSI/AHRI 310/380-2014, Standard for Packaged Terminal Air-Conditioners and Heat Pumps

Approved: 4/15/2014

Daniel Abbate, (703) 524-8800, [dabbate@ahrinet.org](mailto:dabbate@ahrinet.org)

ANSI/AHRI Standard 1060-2009, Performance Rating of Air-to-Air Heat Exchangers for Energy Recovery Ventilation Equipment

Approved: 3/5/2009

Daniel Abbate, (703) 524-8800, [dabbate@ahrinet.org](mailto:dabbate@ahrinet.org)

ANSI/AHRI Standard 1060 (I-P)-2014, Performance Rating of Air-to-Air Exchangers for Energy Recovery Ventilation Equipment

Approved: 5/15/2015

Daniel Abbate, (703) 524-8800, [dabbate@ahrinet.org](mailto:dabbate@ahrinet.org)

ANSI/AHRI Standard 1061 (SI)-2014, Performance Rating of Air-to-Air Exchangers for Energy Recovery Ventilation Equipment

Approved: 5/19/2015

Daniel Abbate, (703) 524-8800, [dabbate@ahrinet.org](mailto:dabbate@ahrinet.org)

ANSI/AHRI Standard 110-2012, Air-Conditioning, Heating and Refrigerating Equipment Nameplate Voltages

Approved: 11/30/2012

Daniel Abbate, (703) 524-8800, [dabbate@ahrinet.org](mailto:dabbate@ahrinet.org)

ANSI/AHRI Standard 1110 (I-P)-2013, Performance Rating of Mechanical Transport Refrigeration Units

Approved: 9/30/2013

Daniel Abbate, (703) 524-8800, [dabbate@ahrinet.org](mailto:dabbate@ahrinet.org)

ANSI/AHRI Standard 1111 (SI)-2013, Performance Rating of Mechanical Transport Refrigeration Units

Approved: 9/30/2013

Daniel Abbate, (703) 524-8800, [dabbate@ahrinet.org](mailto:dabbate@ahrinet.org)

ANSI/AHRI Standard 1120-2012, Acoustical Test Methods and Sound Power Rating Procedures for Transport Refrigeration Equipment

Approved: 12/6/2012

Daniel Abbate, (703) 524-8800, [dabbate@ahrinet.org](mailto:dabbate@ahrinet.org)

ANSI/AHRI Standard 1140-2012, Sound Quality Evaluation Procedures for Air-Conditioning and Refrigeration Equipment

Approved: 11/29/2012

Daniel Abbate, (703) 524-8800, [dabbate@ahrinet.org](mailto:dabbate@ahrinet.org)

ANSI/AHRI Standard 1160 (I-P)-2014, Performance Rating of Heat Pump Pool Heaters

Approved: 11/19/2014

Daniel Abbate, (703) 524-8800, [dabbate@ahrinet.org](mailto:dabbate@ahrinet.org)

ANSI/AHRI Standard 1161 (SI)-2014, Performance Rating of Heat Pump Pool Heaters

Approved: 11/20/2014

Daniel Abbate, (703) 524-8800, [dabbate@ahrinet.org](mailto:dabbate@ahrinet.org)

ANSI/AHRI Standard 1200 (I-P)-2013, Performance Rating of Commercial Refrigerated Display Merchandisers and Storage Cabinets

Approved: 10/1/2013

Daniel Abbate, (703) 524-8800, [dabbate@ahrinet.org](mailto:dabbate@ahrinet.org)

ANSI/AHRI Standard 1201 (SI)-2013, Performance Rating of Commercial Refrigerated Display Merchandisers and Storage Cabinets

Approved: 10/1/2013

Daniel Abbate, (703) 524-8800, [dabbate@ahrinet.org](mailto:dabbate@ahrinet.org)

ANSI/AHRI Standard 1210 (I-P)-2011 with Addendum 1, Performance Rating of Variable Frequency Drives

Approved: 10/1/2013

Daniel Abbate, (703) 524-8800, [dabbate@ahrinet.org](mailto:dabbate@ahrinet.org)

ANSI/AHRI Standard 1211-2011, Performance Rating of Variable Frequency Drives  
*Approved: 4/17/2012*  
*Daniel Abbate, (703) 524-8800, dabbate@ahrinet.org*

ANSI/AHRI Standard 1211 (SI)-2011 with Addendum 1, Performance Rating of Variable Frequency Drives  
*Approved: 10/1/2013*  
*Daniel Abbate, (703) 524-8800, dabbate@ahrinet.org*

ANSI/AHRI Standard 1230-2010, Performance Rating of Variable Refrigerant Flow (VRF) Multi-Split Air-Conditioning and Heat Pump Equipment  
*Approved: 8/2/2010*  
*Daniel Abbate, (703) 524-8800, dabbate@ahrinet.org*

ANSI/AHRI Standard 1250 (I-P)-2014, Performance Rating of Walk-In Coolers and Freezers  
*Approved: 5/19/2015*  
*Daniel Abbate, (703) 524-8800, dabbate@ahrinet.org*

ANSI/AHRI Standard 1251 (SI)-2014, Performance Rating of Walk-In Coolers and Freezers  
*Approved: 5/19/2015*  
*Daniel Abbate, (703) 524-8800, dabbate@ahrinet.org*

ANSI/AHRI Standard 1270 (I-P)-2015, Requirements for Seismic Qualification of HVACR Equipment  
*Approved: 11/6/2015*  
*Daniel Abbate, (703) 524-8800, dabbate@ahrinet.org*

ANSI/AHRI Standard 1271 (SI)-2015, Requirements for Seismic Qualification of HVACR Equipment  
*Approved: 11/6/2015*  
*Daniel Abbate, (703) 524-8800, dabbate@ahrinet.org*

ANSI/AHRI Standard 1280-2015, Sound Power Rating of Water-cooled Chillers  
*Approved: 6/3/2015*  
*Daniel Abbate, (703) 524-8800, dabbate@ahrinet.org*

ANSI/AHRI Standard 1300 (I-P)-2013, Performance Rating of Commercial Heat Pump Water Heaters  
*Approved: 9/30/2013*  
*Daniel Abbate, (703) 524-8800, dabbate@ahrinet.org*

ANSI/AHRI Standard 1301 (SI)-2013, Performance Rating of Commercial Heat Pump Water Heaters  
*Approved: 9/30/2013*  
*Daniel Abbate, (703) 524-8800, dabbate@ahrinet.org*

ANSI/AHRI Standard 1320-2011, Performance Rating of Commercial Refrigerated Display Merchandisers and Storage Cabinets for Use with Secondary Refrigerants  
*Approved: 4/17/2012*  
*Daniel Abbate, (703) 524-8800, dabbate@ahrinet.org*

ANSI/AHRI Standard 1321-2011, Performance Rating of Commercial Refrigerated Display Merchandisers and Storage Cabinets for Use with Secondary Refrigerants  
*Approved: 4/17/2012*  
*Daniel Abbate, (703) 524-8800, dabbate@ahrinet.org*

ANSI/AHRI Standard 1330-2015, Performance Rating for Radiant Output of Gas Fired Infrared Heaters  
*Approved: 4/20/2015*  
*Daniel Abbate, (703) 524-8800, dabbate@ahrinet.org*

ANSI/AHRI Standard 1350 (I-P)-2014, Mechanical Performance Rating of Central Station Air-handling Unit Casings  
*Approved: 5/19/2015*  
*Daniel Abbate, (703) 524-8800, dabbate@ahrinet.org*

ANSI/AHRI Standard 1351 (SI)-2015, Mechanical Performance Rating of Central Station Air-handling Unit Casings  
*Approved: 5/19/2015*  
*Daniel Abbate, (703) 524-8800, dabbate@ahrinet.org*

ANSI/AHRI Standard 1360 (I-P)-2016, Performance Rating of Computer and Data Processing Room Air Conditioners  
*Approved: 7/8/2016*  
*Daniel Abbate, (703) 524-8800, dabbate@ahrinet.org*

ANSI/AHRI Standard 1361 (SI)-2016, Performance Rating of Computer and Data Processing Room Air Conditioners  
*Approved: 7/8/2016*  
*Daniel Abbate, (703) 524-8800, dabbate@ahrinet.org*

ANSI/AHRI Standard 1500-2014, Method to Determine Efficiency of Commercial Space Heating Boilers  
*Approved: 11/19/2014*  
*Daniel Abbate, (703) 524-8800, dabbate@ahrinet.org*

ANSI/AHRI Standard 210/240-2008 with Addenda 1 and 2-2011, Performance Rating of Unitary Air-Conditioning & Air-Source Heat Pump Equipment  
*Approved: 1/15/2013*  
*Daniel Abbate, (703) 524-8800, dabbate@ahrinet.org*

ANSI/AHRI Standard 220-2015, Reverberation Room Qualification and Testing Procedures for Determining Sound Power of HVAC Equipment  
*Approved: 11/6/2015*  
*Daniel Abbate, (703) 524-8800, dabbate@ahrinet.org*

ANSI/AHRI Standard 230-2013, Sound Intensity Testing Procedures for Determining Sound Power of HVAC Equipment  
*Approved: 4/15/2014*  
*Daniel Abbate, (703) 524-8800, dabbate@ahrinet.org*

ANSI/AHRI Standard 250-2013, Performance and Calibration of Reference Sound Sources  
*Approved: 4/16/2014*  
*Daniel Abbate, (703) 524-8800, dabbate@ahrinet.org*

ANSI/AHRI Standard 260 (I-P)-2010, Sound Rating of Ducted Air Moving and Conditioning Equipment  
*Approved: 6/26/2013*  
*Daniel Abbate, (703) 524-8800, dabbate@ahrinet.org*

ANSI/AHRI Standard 261 (SI)-2010, Sound Rating of Ducted Air Moving and Conditioning Equipment  
*Approved: 6/26/2013*  
*Daniel Abbate, (703) 524-8800, dabbate@ahrinet.org*

ANSI/AHRI Standard 270-2009, Sound Performance Rating of Outdoor Unitary Equipment  
*Approved: 12/11/2009*  
*Daniel Abbate, (703) 524-8800, dabbate@ahrinet.org*

ANSI/AHRI Standard 275-2010, Application of Outdoor Unitary Equipment A-Weighted Sound Power Ratings  
*Approved: 1/4/2011*  
*Daniel Abbate, (703) 524-8800, dabbate@ahrinet.org*

ANSI/AHRI Standard 280-2012, Requirements for the Qualification of Reverberation Rooms in the 63 Hz Octave Band  
*Approved: 4/17/2012*  
*Daniel Abbate, (703) 524-8800, dabbate@ahrinet.org*

ANSI/AHRI Standard 300-2015, Sound Rating and Sound Transmission Loss of Packaged Terminal Equipment  
*Approved: 7/8/2016*  
*Daniel Abbate, (703) 524-8800, dabbate@ahrinet.org*

ANSI/AHRI Standard 340/360 with Addenda 1 and 2-2011, Performance Rating of Commercial and Industrial Unitary Air-Conditioning and Heat Pump Equipment  
*Approved: 10/27/2011*  
*Daniel Abbate, (703) 524-8800, dabbate@ahrinet.org*

ANSI/AHRI Standard 350-2015, Sound Rating of Non-ducted Indoor Air-conditioning Equipment  
*Approved: 7/15/2016*  
*Daniel Abbate, (703) 524-8800, dabbate@ahrinet.org*

ANSI/AHRI Standard 365-2010, Performance Rating of Commercial and Industrial Unitary Air-Conditioning Condensing Units  
*Approved: 1/4/2011*  
*Daniel Abbate, (703) 524-8800, dabbate@ahrinet.org*

ANSI/AHRI Standard 366-2010, Performance Rating of Commercial and Industrial Unitary Air-Conditioning Condensing Units  
*Approved: 1/4/2011*  
*Daniel Abbate, (703) 524-8800, dabbate@ahrinet.org*

ANSI/AHRI Standard 370-2015, Sound Performance Rating of Large Air-cooled Outdoor Refrigerating and Air-conditioning Equipment  
*Approved: 11/6/2015*

*Daniel Abbate, (703) 524-8800, [dabbate@ahrinet.org](mailto:dabbate@ahrinet.org)*

ANSI/AHRI Standard 400 (I-P)-2015, Performance Rating of Liquid to Liquid Heat Exchangers  
*Approved: 11/6/2015*

*Daniel Abbate, (703) 524-8800, [dabbate@ahrinet.org](mailto:dabbate@ahrinet.org)*

ANSI/AHRI Standard 400-2001, Addendum 2 -2011, Liquid-to-Liquid Heat Exchangers  
*Approved: 6/10/2011*

*Daniel Abbate, (703) 524-8800, [dabbate@ahrinet.org](mailto:dabbate@ahrinet.org)*

ANSI/AHRI Standard 401 (SI)-2015, Performance Rating of Liquid to Liquid Heat Exchangers  
*Approved: 11/6/2015*

*Daniel Abbate, (703) 524-8800, [dabbate@ahrinet.org](mailto:dabbate@ahrinet.org)*

ANSI/AHRI Standard 420-2009, Performance Rating of Forced-Circulation Free-Delivery Unit Coolers for Refrigeration  
*Approved: 12/11/2009*

*Daniel Abbate, (703) 524-8800, [dabbate@ahrinet.org](mailto:dabbate@ahrinet.org)*

ANSI/AHRI Standard 430-2010, Central Station Air-Handling Units  
*Approved: 8/2/2010*

*Daniel Abbate, (703) 524-8800, [dabbate@ahrinet.org](mailto:dabbate@ahrinet.org)*

ANSI/AHRI Standard 440-2009, Performance Rating of Room Fan-Coils  
*Approved: 12/11/2009*

*Daniel Abbate, (703) 524-8800, [dabbate@ahrinet.org](mailto:dabbate@ahrinet.org)*

ANSI/AHRI Standard 460-2009, Performance Rating of Remote Mechanical-Draft Air-Cooled Refrigerant Condensers  
*Approved: 3/5/2009*

*Daniel Abbate, (703) 524-8800, [dabbate@ahrinet.org](mailto:dabbate@ahrinet.org)*

ANSI/AHRI Standard 470-2006, Performance Rating of Desuperheater/Water Heaters  
*Approved: 5/20/2009*

*Daniel Abbate, (703) 524-8800, [dabbate@ahrinet.org](mailto:dabbate@ahrinet.org)*

ANSI/AHRI Standard 490-2011, Performance Rating of Remote Mechanical-Draft Evaporatively-Cooled Refrigerant Condensers  
*Approved: 4/17/2012*

*Daniel Abbate, (703) 524-8800, [dabbate@ahrinet.org](mailto:dabbate@ahrinet.org)*

ANSI/AHRI Standard 491-2011, Performance Rating of Remote Mechanical-Draft Evaporatively-Cooled Refrigerant Condensers  
*Approved: 4/16/2012*

*Daniel Abbate, (703) 524-8800, [dabbate@ahrinet.org](mailto:dabbate@ahrinet.org)*

ANSI/AHRI Standard 495-2005, Performance Rating of Refrigerant Liquid Receivers  
*Approved: 5/20/2009*

*Daniel Abbate, (703) 524-8800, [dabbate@ahrinet.org](mailto:dabbate@ahrinet.org)*

ANSI/AHRI Standard 510-2006, Performance Rating of Positive Displacement Ammonia Compressors and Compressor Units  
*Approved: 5/20/2009*

*Daniel Abbate, (703) 524-8800, [dabbate@ahrinet.org](mailto:dabbate@ahrinet.org)*

ANSI/AHRI Standard 530-2011, Rating of Sound and Vibration for Refrigerant Compressors  
*Approved: 11/3/2011*

*Daniel Abbate, (703) 524-8800, [dabbate@ahrinet.org](mailto:dabbate@ahrinet.org)*

ANSI/AHRI Standard 540 (I-P and SI)-2016, Performance Rating of Positive Displacement Refrigerant Compressors and Compressor Units  
*Approved: 4/7/2016*

*Daniel Abbate, (703) 524-8800, [dabbate@ahrinet.org](mailto:dabbate@ahrinet.org)*

ANSI/AHRI Standard 550/590 (I-P)-2012 with Addendum 1, Performance Rating of Water-Chilling and Heat Pump Water-Heating Packages Using the Vapor Compression Cycle  
*Approved: 6/12/2013*

*Daniel Abbate, (703) 524-8800, [dabbate@ahrinet.org](mailto:dabbate@ahrinet.org)*

ANSI/AHRI Standard 551/591-2011, Performance Rating of Water-Chilling and Heat Pump Water-Heating Packages Using the Vapor Compression Cycle  
*Approved: 4/17/2012*

*Daniel Abbate, (703) 524-8800, [dabbate@ahrinet.org](mailto:dabbate@ahrinet.org)*

ANSI/AHRI Standard 551/591 (SI) with Addendum 1-2012, Performance Rating of Water-Chilling and Heat Pump Water-Heating Packages Using the Vapor Compression Cycle  
*Approved: 6/18/2013*

*Daniel Abbate, (703) 524-8800, [dabbate@ahrinet.org](mailto:dabbate@ahrinet.org)*

ANSI/AHRI Standard 570 (I-P)-2013, Performance Rating of Remote Mechanical-Draft Evaporatively-Cooled Refrigerant Condensers  
*Approved: 6/12/2013*

*Daniel Abbate, (703) 524-8800, [dabbate@ahrinet.org](mailto:dabbate@ahrinet.org)*

ANSI/AHRI Standard 571 (SI)-2013, Performance Rating of Remote Mechanical-Draft Evaporatively-Cooled Refrigerant Condensers  
*Approved: 6/12/2013*

*Daniel Abbate, (703) 524-8800, [dabbate@ahrinet.org](mailto:dabbate@ahrinet.org)*

ANSI/AHRI Standard 575-2009, Method of Measuring Sound Within an Equipment Space  
*Approved: 1/13/2010*

*Daniel Abbate, (703) 524-8800, [dabbate@ahrinet.org](mailto:dabbate@ahrinet.org)*

ANSI/AHRI Standard 580-2014, Performance Rating of Non-condensable Gas Purge Equipment For Use with Low Pressure Centrifugal Liquid Chillers  
*Approved: 7/8/2016*

*Daniel Abbate, (703) 524-8800, [dabbate@ahrinet.org](mailto:dabbate@ahrinet.org)*

ANSI/AHRI Standard 610 (I-P)-2014, Performance Rating of Central System Humidifiers for Residential Applications  
*Approved: 11/19/2014*

*Daniel Abbate, (703) 524-8800, [dabbate@ahrinet.org](mailto:dabbate@ahrinet.org)*

ANSI/AHRI Standard 611 (SI)-2014, Performance Rating of Central System Humidifiers for Residential Applications  
*Approved: 11/19/2014*

*Daniel Abbate, (703) 524-8800, [dabbate@ahrinet.org](mailto:dabbate@ahrinet.org)*

ANSI/AHRI Standard 620 (I-P)-2014, Performance Rating of Self-contained Humidifiers for Residential Applications  
*Approved: 11/19/2014*

*Daniel Abbate, (703) 524-8800, [dabbate@ahrinet.org](mailto:dabbate@ahrinet.org)*

ANSI/AHRI Standard 621 (SI)-2014, Performance Rating of Self-contained Humidifiers for Residential Applications  
*Approved: 11/19/2014*

*Daniel Abbate, (703) 524-8800, [dabbate@ahrinet.org](mailto:dabbate@ahrinet.org)*

ANSI/AHRI Standard 640-2005, Performance Rating of Commercial and Industrial Humidifiers (formerly ANSI/AHRI 640-2005)  
*Approved: 2/25/2009*

*Daniel Abbate, (703) 524-8800, [dabbate@ahrinet.org](mailto:dabbate@ahrinet.org)*

ANSI/AHRI Standard 680 (I-P)-2015, Performance Rating of Residential Air Filter Equipment  
*Approved: 7/8/2016*

*Daniel Abbate, (703) 524-8800, [dabbate@ahrinet.org](mailto:dabbate@ahrinet.org)*

ANSI/AHRI Standard 681 (SI)-2015, Performance Rating of Residential Air Filter Equipment  
*Approved: 7/8/2016*

*Daniel Abbate, (703) 524-8800, [dabbate@ahrinet.org](mailto:dabbate@ahrinet.org)*

ANSI/AHRI Standard 700 with Addenda 1 and 2 -2011, Specification for Fluorocarbon Refrigerants  
*Approved: 8/4/2011*

*Daniel Abbate, (703) 524-8800, [dabbate@ahrinet.org](mailto:dabbate@ahrinet.org)*

ANSI/AHRI Standard 710 (I-P)-2010, Performance Rating of Liquid-Line Driers  
*Approved: 8/2/2010*

*Daniel Abbate, (703) 524-8800, [dabbate@ahrinet.org](mailto:dabbate@ahrinet.org)*

ANSI/AHRI Standard 711 (SI)-2010, Performance Rating of Liquid-Line Driers  
*Approved: 8/2/2010*

*Daniel Abbate, (703) 524-8800, [dabbate@ahrinet.org](mailto:dabbate@ahrinet.org)*

ANSI/AHRI Standard 715 (I-P)-2015,  
Performance Rating of Liquid-Line Filters  
*Approved: 4/14/2015*  
*Daniel Abbate, (703) 524-8800, [dabbate@ahrinet.org](mailto:dabbate@ahrinet.org)*

ANSI/AHRI Standard 716 (SI)-2015,  
Performance Rating of Liquid-Line Filters  
*Approved: 4/14/2015*  
*Daniel Abbate, (703) 524-8800, [dabbate@ahrinet.org](mailto:dabbate@ahrinet.org)*

ANSI/AHRI Standard 730 (I-P)-2013, Flow  
Capacity Rating of Suction-Line Filters and  
Suction-Line Filter-Driers  
*Approved: 4/15/2014*  
*Daniel Abbate, (703) 524-8800, [dabbate@ahrinet.org](mailto:dabbate@ahrinet.org)*

ANSI/AHRI Standard 731 (SI)-2013, Flow  
Capacity Rating of Suction-Line Filters and  
Suction-Line Filter-Driers  
*Approved: 4/15/2014*  
*Daniel Abbate, (703) 524-8800, [dabbate@ahrinet.org](mailto:dabbate@ahrinet.org)*

ANSI/AHRI Standard 740-2015, Performance  
Rating of Refrigerant Recovery Equipment  
and Recovery/Recycling Equipment  
*Approved: 11/6/2015*  
*Daniel Abbate, (703) 524-8800, [dabbate@ahrinet.org](mailto:dabbate@ahrinet.org)*

ANSI/AHRI Standard 750-2007, Performance  
Rating of Thermostatic Refrigerant Expansion  
Valves  
*Approved: 5/20/2009*  
*Daniel Abbate, (703) 524-8800, [dabbate@ahrinet.org](mailto:dabbate@ahrinet.org)*

ANSI/AHRI Standard 760-2007, Performance  
Rating of Solenoid Valves for Use with  
Volatile Refrigerants  
*Approved: 5/20/2009*  
*Daniel Abbate, (703) 524-8800, [dabbate@ahrinet.org](mailto:dabbate@ahrinet.org)*

ANSI/AHRI Standard 760 (I-P)-2014,  
Performance Rating of Solenoid Valves for  
Use with Volatile Refrigerants  
*Approved: 5/15/2015*  
*Daniel Abbate, (703) 524-8800, [dabbate@ahrinet.org](mailto:dabbate@ahrinet.org)*

ANSI/AHRI Standard 761 (SI)-2014,  
Performance Rating of Solenoid Valves for  
Use with Volatile Refrigerants  
*Approved: 5/15/2015*  
*Daniel Abbate, (703) 524-8800, [dabbate@ahrinet.org](mailto:dabbate@ahrinet.org)*

ANSI/AHRI Standard 770-2007, Refrigerant  
Pressure Regulating Valves  
*Approved: 5/20/2009*  
*Daniel Abbate, (703) 524-8800, [dabbate@ahrinet.org](mailto:dabbate@ahrinet.org)*

ANSI/AHRI Standard 770 (I-P)-2014,  
Performance Rating of Refrigerant Pressure  
Regulating Valves  
*Approved: 5/19/2015*  
*Daniel Abbate, (703) 524-8800, [dabbate@ahrinet.org](mailto:dabbate@ahrinet.org)*

ANSI/AHRI Standard 771 (SI)-2014,  
Performance Rating of Refrigerant Pressure  
Regulating Valves  
*Approved: 5/19/2015*  
*Daniel Abbate, (703) 524-8800, [dabbate@ahrinet.org](mailto:dabbate@ahrinet.org)*

ANSI/AHRI Standard 810 (I-P)-2013,  
Performance Rating of Remote Mechanical-  
Draft Evaporatively-Cooled Refrigerant  
Condensers  
*Approved: 6/12/2013*  
*Daniel Abbate, (703) 524-8800, [dabbate@ahrinet.org](mailto:dabbate@ahrinet.org)*

ANSI/AHRI Standard 811 (SI)-2013,  
Performance Rating of Remote Mechanical-  
Draft Evaporatively-Cooled Refrigerant  
Condensers  
*Approved: 6/12/2013*  
*Daniel Abbate, (703) 524-8800, [dabbate@ahrinet.org](mailto:dabbate@ahrinet.org)*

ANSI/AHRI Standard 820 (I-P)-2012,  
Performance Rating of Ice Storage Bins  
*Approved: 11/30/2012*  
*Daniel Abbate, (703) 524-8800, [dabbate@ahrinet.org](mailto:dabbate@ahrinet.org)*

ANSI/AHRI Standard 821 (SI)-2012,  
Performance Rating of Ice Storage Bins  
*Approved: 11/30/2012*  
*Daniel Abbate, (703) 524-8800, [dabbate@ahrinet.org](mailto:dabbate@ahrinet.org)*

ANSI/AHRI Standard 850 (I-P)-2013  
, Performance Rating of Commercial and  
Industrial Air Filter Equipment  
*Approved: 4/16/2014*  
*Daniel Abbate, (703) 524-8800, [dabbate@ahrinet.org](mailto:dabbate@ahrinet.org)*

ANSI/AHRI Standard 851 (SI)-2013,  
Performance Rating of Commercial and  
Industrial Air Filter Equipment  
*Approved: 4/15/2014*  
*Daniel Abbate, (703) 524-8800, [dabbate@ahrinet.org](mailto:dabbate@ahrinet.org)*

ANSI/AHRI Standard 870-2009, Performance  
Rating of Direct Geexchange Heat Pumps  
*Approved: 3/5/2009*  
*Daniel Abbate, (703) 524-8800, [dabbate@ahrinet.org](mailto:dabbate@ahrinet.org)*

ANSI/AHRI Standard 880 (I-P)-2011 with  
Addendum 1-2011, Performance Rating of Air  
Terminals  
*Approved: 11/29/2012*  
*Daniel Abbate, (703) 524-8800, [dabbate@ahrinet.org](mailto:dabbate@ahrinet.org)*

ANSI/AHRI Standard 881 (SI), Adm1-2012 ,  
Performance Rating of Air Terminals  
*Approved: 12/6/2012*  
*Daniel Abbate, (703) 524-8800, [dabbate@ahrinet.org](mailto:dabbate@ahrinet.org)*

ANSI/AHRI Standard 900-2010, Performance  
Rating of Thermal Storage Equipment Used  
for Cooling  
*Approved: 1/4/2011*  
*Daniel Abbate, (703) 524-8800, [dabbate@ahrinet.org](mailto:dabbate@ahrinet.org)*

ANSI/AHRI Standard 900 (I-P)-2015,  
Performance Rating of Thermal Storage  
Equipment Used for Cooling  
*Approved: 11/13/2015*  
*Daniel Abbate, (703) 524-8800, [dabbate@ahrinet.org](mailto:dabbate@ahrinet.org)*

ANSI/AHRI Standard 901 (SI)-2015,  
Performance Rating of Thermal Storage  
Equipment Used for Cooling  
*Approved: 11/13/2015*  
*Daniel Abbate, (703) 524-8800, [dabbate@ahrinet.org](mailto:dabbate@ahrinet.org)*

ANSI/AHRI Standard 901-2010, Performance  
Rating of Thermal Storage Equipment Used  
for Cooling  
*Approved: 1/4/2011*  
*Daniel Abbate, (703) 524-8800, [dabbate@ahrinet.org](mailto:dabbate@ahrinet.org)*

ANSI/AHRI Standard 910-2011, Performance  
Rating of Indoor Pool Dehumidifiers  
*Approved: 4/17/2012*  
*Daniel Abbate, (703) 524-8800, [dabbate@ahrinet.org](mailto:dabbate@ahrinet.org)*

ANSI/AHRI Standard 910 (I-P)-2014,  
Performance Rating of Indoor Pool  
Dehumidifiers  
*Approved: 9/27/2016*  
*Daniel Abbate, (703) 524-8800, [dabbate@ahrinet.org](mailto:dabbate@ahrinet.org)*

ANSI/AHRI Standard 911 (SI)-2014,  
Performance Rating of Indoor Pool  
Dehumidifiers  
*Approved: 7/8/2016*  
*Daniel Abbate, (703) 524-8800, [dabbate@ahrinet.org](mailto:dabbate@ahrinet.org)*

ANSI/AHRI Standard 920 (I-P)-2015,  
Performance Rating of DX-Dedicated  
Outdoor Air System Units  
*Approved: 11/6/2015*  
*Daniel Abbate, (703) 524-8800, [dabbate@ahrinet.org](mailto:dabbate@ahrinet.org)*

ANSI/AHRI Standard 921 (SI)-2015,  
Performance Rating of DX-Dedicated  
Outdoor Air System Units  
*Approved: 11/6/2015*  
*Daniel Abbate, (703) 524-8800, [dabbate@ahrinet.org](mailto:dabbate@ahrinet.org)*

ANSI/AHRI/ASHRAE ISO Standard 13256-1  
-2011, Water-source heat pumps - testing  
and rating for performance - Part 1: Water-  
to-air and brine-to-air heat pumps  
*Approved: 11/3/2011*  
*Daniel Abbate, (703) 524-8800, [dabbate@ahrinet.org](mailto:dabbate@ahrinet.org)*

ANSI/AHRI/ASHRAE ISO Standard 13256-2  
-2011, Water-source heat pumps - testing  
and rating for performance - Part 2: Water-  
to-water and brine-to-water heat pumps  
*Approved: 11/3/2011*  
*Daniel Abbate, (703) 524-8800, [dabbate@ahrinet.org](mailto:dabbate@ahrinet.org)*

*Daniel Abbate, (703) 524-8800, [dabbate@ahrinet.org](mailto:dabbate@ahrinet.org)*

**AIAA (AMERICAN INSTITUTE OF AERONAUTICS AND ASTRONAUTICS)**

ANSI/AIAA G-034A-2014 (R2019), Guide to Reference and Standard Ionosphere Models  
Approved: 8/9/2019

Hillary Woehrle, (703) 264-7546, hillaryw@aiaa.org

ANSI/AIAA G-043B-2018, Guide for the Preparation of Operational Concept Documents  
Approved: 5/3/2018

Hillary Woehrle, (703) 264-7546, hillaryw@aiaa.org

ANSI/AIAA G-095A-2017, Guide to Safety of Hydrogen and Hydrogen Systems  
Approved: 12/11/2017

Hillary Woehrle, (703) 264-7546, hillaryw@aiaa.org

ANSI/AIAA S-017B-2015 (R2019), Aerodynamic Decelerator and Parachute Drawings  
Approved: 8/9/2019

Hillary Woehrle, (703) 264-7546, hillaryw@aiaa.org

ANSI/AIAA S-080A-2018, Space Systems - Metallic Pressure Vessels, Pressurized Structures, and Pressure Components  
Approved: 3/20/2018

Hillary Woehrle, (703) 264-7546, hillaryw@aiaa.org

ANSI/AIAA S-081B-2018, Space Systems - Composite Overwrapped Pressure Vessels  
Approved: 3/20/2018

Hillary Woehrle, (703) 264-7546, hillaryw@aiaa.org

ANSI/AIAA S-102-1-4-2019, Performance-Based Failure Reporting, Analysis & Corrective Action System (FRACAS) Requirements  
Approved: 3/14/2019

Hillary Woehrle, (703) 264-7546, hillaryw@aiaa.org

ANSI/AIAA S-102-1-5-2019, Performance-Based Failure Review Board (FRB) Requirements  
Approved: 3/14/2019

Hillary Woehrle, (703) 264-7546, hillaryw@aiaa.org

ANSI/AIAA S-102-2-11-2019, Performance-Based Anomaly Detection and Response Analysis  
Approved: 3/14/2019

Hillary Woehrle, (703) 264-7546, hillaryw@aiaa.org

ANSI/AIAA S-102-2-18-2019, Performance-Based Fault Tree Analysis Requirements  
Approved: 3/14/2019

Hillary Woehrle, (703) 264-7546, hillaryw@aiaa.org

ANSI/AIAA S-102-2-2-2019, Performance-Based System Reliability Modeling Requirements  
Approved: 3/14/2019

Hillary Woehrle, (703) 264-7546, hillaryw@aiaa.org

ANSI/AIAA S-102.2.4-2015, Capability-Based Product Failure Mode, Effects and Criticality Analysis (FMECA) Requirements

Approved: 8/14/2015

Hillary Woehrle, (703) 264-7546, hillaryw@aiaa.org

ANSI/AIAA S-115-2013 (R2017), LEO Spacecraft Charging Design Standard and Handbook  
Approved: 9/20/2017

Hillary Woehrle, (703) 264-7546, hillaryw@aiaa.org

ANSI/AIAA S-119-2011 (R2016), Flight Dynamics Model Exchange Standard  
Approved: 9/1/2016

Hillary Woehrle, (703) 264-7546, hillaryw@aiaa.org

ANSI/AIAA-S-120A-2015 (R2019), Mass Properties Control for Space Systems  
Approved: 7/31/2019

Hillary Woehrle, (703) 264-7546, hillaryw@aiaa.org

ANSI/AIAA S-123-2007 (R2017), Adaptions and Conversions of CCSDS Space Link Extension Forward Communications Link Transmission Unit Transfer Service

Approved: 9/20/2017

Hillary Woehrle, (703) 264-7546, hillaryw@aiaa.org

ANSI/AIAA S-124-2007 (R2017), Adaptions and Conversions of CCSDS Space Link Extension Return All Frames Transfer Service  
Approved: 9/20/2017

Hillary Woehrle, (703) 264-7546, hillaryw@aiaa.org

ANSI/AIAA S-131-2011 (R2016), Astrodynamics - Propagation Specifications, Technical Definitions, and Recommended Practices  
Approved: 9/1/2016

Hillary Woehrle, (703) 264-7546, hillaryw@aiaa.org

ANSI/AIAA S-142-2016, Standard/Handbook for Multipactor Breakdown Prevention in Spacecraft Components  
Approved: 10/21/2016

Hillary Woehrle, (703) 264-7546, hillaryw@aiaa.org

**AISC (AMERICAN INSTITUTE OF STEEL CONSTRUCTION)**

ANSI/AISC 303-2016, Code of Standard Practice for Steel Buildings and Bridges

Approved: 6/15/2016

Janet Cummins

ANSI/AISC 341-2016, Seismic Provisions for Structural Steel Buildings

Approved: 7/12/2016

Janet Cummins

ANSI/AISC 358-2016, Prequalified Connections for Special and Intermediate Steel Moment Frames for Seismic Applications

Approved: 5/12/2016

Janet Cummins

ANSI/AISC 358-S1-2018, Supplement No. 1 to AISC 358-16 Prequalified Connections for Special and Intermediate Steel Moment Frames for Seismic Applications

Approved: 7/26/2018

Janet Cummins

ANSI/AISC 360-2016, Specification for Structural Steel Buildings

Approved: 7/7/2016

Janet Cummins

ANSI/AISC N690-2018, Specification for Safety-Related Steel Structures for Nuclear Facilities

Approved: 6/28/2018

Janet Cummins

ANSI/AISC N690, Supplement 1-2015, Specification for Safety-Related Steel Structures for Nuclear Facilities

Approved: 8/11/2015

Janet Cummins

**AISI (AMERICAN IRON AND STEEL INSTITUTE)**

ANSI/AISI S100-2016, North American Specification for the Design of Cold-Formed Steel Structural Members

Approved: 8/5/2016

Helen Chen, (202) 452-7100, Hchen@steel.org

ANSI/AISI S100-2016/S1-2018, Supplement 1 to North American Specification for the Design of Cold-Formed Steel Structural Members

Approved: 12/11/2018

Helen Chen, (202) 452-7100, Hchen@steel.org

ANSI/AISI S110-2007 & S1-2009 (R2012), Standard for Seismic Design of Cold-Formed Steel Structural Systems - Special Bolted Moment Frames including Supplement No. 1, 2007 Edition, (2012)

Approved: 11/29/2012

Helen Chen, (202) 452-7100, Hchen@steel.org

ANSI/AISI S201-2017, North American Standard for Cold-Formed Steel Framing - Product Data

Approved: 3/29/2018

Helen Chen, (202) 452-7100, Hchen@steel.org

ANSI/AISI S202-2015, Code of Standard Practice for Cold-Formed Steel Structural Framing

Approved: 8/20/2015

Helen Chen, (202) 452-7100, Hchen@steel.org

ANSI/AISI S220-2015, North American Standard for Cold-Formed Steel Framing - Nonstructural Members

Approved: 10/21/2015

Helen Chen, (202) 452-7100, Hchen@steel.org

ANSI/AISI S230-2019, North American Standard for Cold-Formed Steel Framing - Prescriptive Method for One- and Two-Family Dwellings  
*Approved: 4/30/2019*

*Helen Chen, (202) 452-7100, Hchen@steel.org*

ANSI/AISI S240-2015, North American Standard for Cold-Formed Steel Structural Framing  
*Approved: 10/22/2015*

*Helen Chen, (202) 452-7100, Hchen@steel.org*

ANSI/AISI S310-2016, North American Standard for the Design of Profiled Steel Diaphragm Panels  
*Approved: 8/19/2015*

*Helen Chen, (202) 452-7100, Hchen@steel.org*

ANSI/AISI S400-2015, North American Standard for Seismic Design of Cold-Formed Steel Structural Systems  
*Approved: 12/1/2015*

*Helen Chen, (202) 452-7100, Hchen@steel.org*

ANSI/AISI S400-15/S1-2016, Supplement 1 to the North American Standard for Seismic Design of Cold-Formed Steel Structural Systems  
*Approved: 8/5/2016*

*Helen Chen, (202) 452-7100, Hchen@steel.org*

ANSI/AISI S901-2017, Test Standard for Determining the Rotational-Lateral Stiffness of Beam-to-Panel Assemblies  
*Approved: 3/29/2018*

*Helen Chen, (202) 452-7100, Hchen@steel.org*

ANSI/AISI S902-2017, Test Standard for Determining the Effective Area of Cold-Formed Steel Compression Members  
*Approved: 3/29/2018*

*Helen Chen, (202) 452-7100, Hchen@steel.org*

ANSI/AISI S903-2017, Test Standard for Determining the Uniform and Local Ductility of Carbon and Low-Alloy Steels  
*Approved: 3/29/2018*

*Helen Chen, (202) 452-7100, Hchen@steel.org*

ANSI/AISI S904-2017, Test Standard for Determining the Tensile and Shear Strengths of Steel Screws  
*Approved: 3/29/2018*

*Helen Chen, (202) 452-7100, Hchen@steel.org*

ANSI/AISI S905-2017, Test Standard for Determining the Strength and Deformation Characteristics of Cold-Formed Steel Connections  
*Approved: 3/29/2018*

*Helen Chen, (202) 452-7100, Hchen@steel.org*

ANSI/AISI S905-2008/S1-2012, Supplement 1 to Test Methods for Mechanically Fastened Cold-Formed Steel Connections  
*Approved: 3/2/2012*

*Helen Chen, (202) 452-7100, Hchen@steel.org*

ANSI/AISI S906-2017, Test Standard for Determining the Load-Carrying Strength of Panels and Anchor-to-Panel Attachments for Roof or Siding Systems Tested in Accordance With ASTM E1592  
*Approved: 3/29/2018*

*Helen Chen, (202) 452-7100, Hchen@steel.org*

ANSI/AISI S907-2017, Test Standard for Determining the Strength and Stiffness of Cold-Formed Steel Diaphragms by the Cantilever Test Method  
*Approved: 3/29/2018*

*Helen Chen, (202) 452-7100, Hchen@steel.org*

ANSI/AISI S908-2017, Test Standard for Determining the Flexural Strength Reduction Factor of Purlins Supporting a Standing Seam Roof System  
*Approved: 3/29/2018*

*Helen Chen, (202) 452-7100, Hchen@steel.org*

ANSI/AISI S909-2017, Test Standard for Determining the Web Crippling Strength of Cold-Formed Steel Flexural Members  
*Approved: 3/29/2018*

*Helen Chen, (202) 452-7100, Hchen@steel.org*

ANSI/AISI S910-2017, Test Standard for Determining the Distortional Buckling Strength of Cold-Formed Steel Hat-Shaped Compression Members  
*Approved: 3/29/2018*

*Helen Chen, (202) 452-7100, Hchen@steel.org*

ANSI/AISI S911-2017, Test Standard for Determining the Flexural Strength of Cold-Formed Steel Hat-Shaped Members  
*Approved: 3/29/2018*

*Helen Chen, (202) 452-7100, Hchen@steel.org*

ANSI/AISI S912-2017, Test Standard for Determining the Strength of a Roof Panel-to-Purlin-to-Anchorage Device Connection  
*Approved: 3/29/2018*

*Helen Chen, (202) 452-7100, Hchen@steel.org*

ANSI/AISI S913-2017, Test Standard for Determining the Strength and Deformation Behavior of Hold-Downs Attached to Cold-Formed Steel Structural Framing  
*Approved: 3/29/2018*

*Helen Chen, (202) 452-7100, Hchen@steel.org*

ANSI/AISI S914-2017, Test Standard for Determining the Strength and Deformation Behavior of Joist Connectors Attached to Cold-Formed Steel Structural Framing  
*Approved: 3/29/2018*

*Helen Chen, (202) 452-7100, Hchen@steel.org*

ANSI/AISI S915-2015, Test Standard for Through-the-Web Punchout Cold-Formed Steel Wall Stud Bridging Connectors  
*Approved: 8/19/2015*

*Helen Chen, (202) 452-7100, Hchen@steel.org*

ANSI/AISI S916-2015, Test Standard for Cold-Formed Steel Framing - Nonstructural Interior Partitions with Gypsum Board  
*Approved: 8/19/2015*

*Helen Chen, (202) 452-7100, Hchen@steel.org*

ANSI/AISI S917-2017, Test Standard for Determination of Fastener-Sheathing Local Translational Stiffness  
*Approved: 10/11/2016*

*Helen Chen, (202) 452-7100, Hchen@steel.org*

ANSI/AISI S918-2017, Test Standard for Determination of Fastener-Sheathing Rotational Stiffness  
*Approved: 10/11/2016*

*Helen Chen, (202) 452-7100, Hchen@steel.org*

ANSI/AISI S919-2017, Test Standard for Determining the Flexural Strength and Stiffness of Cold-Formed Steel Nonstructural Members  
*Approved: 3/29/2018*

*Helen Chen, (202) 452-7100, Hchen@steel.org*

## **ALI (AUTOMOTIVE LIFT INSTITUTE)**

ANSI/ALI ALCTV-2017, Standard for Automotive Lifts - Safety Requirements for Construction, Testing and Validation  
*Approved: 1/24/2017*

*Heather Almeida, (607) 756-7775, heather@autolift.org*

ANSI/ALI ALIS:2009 (R2015), Standard for Automotive Lifts - Safety Requirements for Installation and Service  
*Approved: 12/15/2015*

*Heather Almeida, (607) 756-7775, heather@autolift.org*

ANSI/ALI ALOIM-2008 (R2013), Standard for Automotive Lifts - Safety Requirements for Operation, Inspection, and Maintenance  
*Approved: 12/4/2013*

*Heather Almeida, (607) 756-7775, heather@autolift.org*

## **ALI (ASC A14) (AMERICAN LADDER INSTITUTE)**

ANSI A14.1-2018, Portable Wood Ladders  
Approved: 8/23/2018

Janet Rapp, (312) 673-5769, jrapp@smithbucklin.com; ali@smithbucklin.com

ANSI A14.11-2018, Stepstools  
Approved: 6/15/2018

Janet Rapp, (312) 673-5769, jrapp@smithbucklin.com; ali@smithbucklin.com

ANSI A14.2-2017, Standard For Ladders - Portable Metal - Safety Requirements  
Approved: 12/12/2017

Janet Rapp, (312) 673-5769, jrapp@smithbucklin.com; ali@smithbucklin.com

ANSI A14.3-2008 (R2018), Standard for Ladders - Fixed - Safety Requirements  
Approved: 10/5/2018

Janet Rapp, (312) 673-5769, jrapp@smithbucklin.com; ali@smithbucklin.com

ANSI A14.4-2018, Job Made Ladders  
Approved: 10/18/2018

Janet Rapp, (312) 673-5769, jrapp@smithbucklin.com; ali@smithbucklin.com

ANSI A14.5-2017, Reinforced Plastic Ladders  
Approved: 12/12/2017

Janet Rapp, (312) 673-5769, jrapp@smithbucklin.com; ali@smithbucklin.com

ANSI A14.7-2012, Mobile Ladder Stands & Mobile Ladder Stand Platforms  
Approved: 1/18/2012

Janet Rapp, (312) 673-5769, jrapp@smithbucklin.com; ali@smithbucklin.com

ANSI A14.8-2013, Safety Requirements for Ladder Accessories  
Approved: 5/10/2013

Janet Rapp, (312) 673-5769, jrapp@smithbucklin.com; ali@smithbucklin.com

ANSI A14.9-2019, Requirements for Disappearing Attic Stairs  
Approved: 2/15/2019

Janet Rapp, (312) 673-5769, jrapp@smithbucklin.com; ali@smithbucklin.com

## **AMCA (AIR MOVEMENT AND CONTROL ASSOCIATION)**

ANSI/AMCA 204-2005 (R2012), Balance Quality and Vibration Levels for Fans  
Approved: 3/28/2012

John Pakan, (847) 704-6295, jpakan@amca.org

ANSI/AMCA 207-2017, Fan System Efficiency and Fan System Input Power Calculation  
Approved: 4/17/2017

John Pakan, (847) 704-6295, jpakan@amca.org

ANSI/AMCA 208-2018, Calculation of Fan Energy Index

Approved: 1/24/2018

John Pakan, (847) 704-6295, jpakan@amca.org

ANSI/AMCA 210-2016, ANSI/ASHRAE 51- 2016, Laboratory Methods of Testing Fans for Aerodynamic Performance Rating

Approved: 8/26/2016

John Pakan, (847) 704-6295, jpakan@amca.org

ANSI/AMCA 220-2005 (R2012), Laboratory Methods of Testing Air Curtain Units for Aerodynamic Performance Rating

Approved: 3/29/2012

John Pakan, (847) 704-6295, jpakan@amca.org

ANSI/AMCA 230-2015, Laboratory Methods of Testing Air Circulating Fans for Rating and Certification

Approved: 10/16/2015

John Pakan, (847) 704-6295, jpakan@amca.org

ANSI/AMCA 240-2015, Laboratory Methods of Testing Positive Pressure Ventilators for Aerodynamic Performance Rating

Approved: 5/8/2015

John Pakan, (847) 704-6295, jpakan@amca.org

ANSI/AMCA 250-2012, Laboratory Methods of Testing Jet Tunnel Fans for Rating

Approved: 2/22/2012

John Pakan, (847) 704-6295, jpakan@amca.org

ANSI/AMCA 260-2013, Laboratory Methods of Testing Induced Flow Fans for Rating

Approved: 11/4/2013

John Pakan, (847) 704-6295, jpakan@amca.org

ANSI/AMCA 320-2013, Laboratory Method of Sound Testing of Fans Using Sound Intensity

Approved: 9/17/2013

John Pakan, (847) 704-6295, jpakan@amca.org

ANSI/AMCA 500-D-2012, Laboratory Methods of Testing Dampers for Rating

Approved: 3/29/2012

John Pakan, (847) 704-6295, jpakan@amca.org

ANSI/AMCA 500-D-2018, BSR/AMCA 500-D XX Laboratory Methods of Testing Dampers for Rating

Approved: 12/6/2018

John Pakan, (847) 704-6295, jpakan@amca.org

ANSI/AMCA 540-2013, Test Method for Louvers Impacted by Wind Borne Debris

Approved: 6/14/2013

John Pakan, (847) 704-6295, jpakan@amca.org

ANSI/AMCA 550-2018, Test Method for High Velocity Wind Driven Rain Resistant Louvers

Approved: 9/20/2018

John Pakan, (847) 704-6295, jpakan@amca.org

ANSI/AMCA 99-2016, Standards Handbook

Approved: 11/10/2016

John Pakan, (847) 704-6295, jpakan@amca.org

ANSI/AMCA Standard 205-2019, Energy Efficiency Classification for Fans  
Approved: 5/3/2019

John Pakan, (847) 704-6295, jpakan@amca.org

ANSI/AMCA Standard 300-2014, Reverberant Room Methods for Sound Testing of Fans  
Approved: 8/14/2014

John Pakan, (847) 704-6295, jpakan@amca.org

ANSI/AMCA Standard 301-2014, Methods for Calculating Fan Sound Ratings from Laboratory Test Data

Approved: 8/14/2014

John Pakan, (847) 704-6295, jpakan@amca.org

ANSI/AMCA Standard 500-L-2015, Laboratory Methods of Testing Louvers for Rating  
Approved: 12/3/2015

John Pakan, (847) 704-6295, jpakan@amca.org

ANSI/AMCA Standard 610-2019, Laboratory Methods of Testing Airflow Measurement Stations for Performance Rating

Approved: 4/9/2019

John Pakan, (847) 704-6295, jpakan@amca.org

## **AMCI (AMC INSTITUTE)**

ANSI/AMCI A100.1-2018, The Standard of Good Practices for Association Management Companies

Approved: 12/19/2018

## **AMERICANHORT (AMERICANHORT)**

ANSI Z60.1-2014, Standard for Nursery Stock  
Approved: 4/14/2014

Warren Quinn, (410) 382-5569, warren@tqmgrp.com

## **ANS (AMERICAN NUCLEAR SOCIETY)**

ANSI/ANS 1-2000 (R2019), Conduct of Critical Experiments

Approved: 8/12/2019

scook@ans.org

ANSI/ANS 10.4-2008 (R2016), Verification and Validation of Non-Safety-Related Scientific and Engineering Computer Programs for the Nuclear Industry

Approved: 9/26/2016

scook@ans.org

ANSI/ANS 10.5-2006 (R2016), Accommodating User Needs in Scientific and Engineering Computer Software Development

Approved: 12/8/2016

scook@ans.org

ANSI/ANS 10.7-2013 (R2018), Non-Real-Time, High-Integrity Software for the Nuclear Industry - Developer Requirements

Approved: 8/13/2018

[scook@ans.org](mailto:scook@ans.org)

ANSI/ANS 10.8-2015, Non-Real-Time, High-Integrity Software for the Nuclear Industry

Approved: 11/19/2015

[scook@ans.org](mailto:scook@ans.org)

ANSI/ANS 14.1-2004 (R2019), Operation of Fast Pulse Reactors

Approved: 8/12/2019

[scook@ans.org](mailto:scook@ans.org)

ANSI/ANS 15.1-2007 (R2018), The Development of Technical Specifications for Research Reactors

Approved: 4/10/2018

[scook@ans.org](mailto:scook@ans.org)

ANSI/ANS 15.11-2016, Radiation Protection at Research Reactors

Approved: 5/13/2016

[scook@ans.org](mailto:scook@ans.org)

ANSI/ANS 15.16-2015, Emergency Planning for Research Reactors

Approved: 2/11/2015

[scook@ans.org](mailto:scook@ans.org)

ANSI/ANS 15.2-1999 (R2016), Quality Control for Plate-Type Uranium-Aluminum Fuel Elements

Approved: 8/18/2016

[scook@ans.org](mailto:scook@ans.org)

ANSI/ANS 15.21-2012 (R2018), Format and Content for Safety Analysis Reports for Research Reactors

Approved: 2/27/2018

[scook@ans.org](mailto:scook@ans.org)

ANSI/ANS 15.4-2016, Selection and Training of Personnel for Research Reactors

Approved: 4/19/2016

[scook@ans.org](mailto:scook@ans.org)

ANSI/ANS 15.8-1995 (R2018), Quality Assurance Program Requirements for Research Reactors

Approved: 7/18/2018

[scook@ans.org](mailto:scook@ans.org)

ANSI/ANS 16.1-2019, Measurement of the Leachability of Solidified Low-Level Radioactive Wastes by a Short-Term Test Procedure

Approved: 2/22/2019

[scook@ans.org](mailto:scook@ans.org)

ANSI/ANS 18.1-2016, Radioactive Source Term for Normal Operation of Light Water Reactors

Approved: 11/1/2016

[scook@ans.org](mailto:scook@ans.org)

ANSI/ANS 19.1-2019, Nuclear Data Sets for Reactor Design Calculations

Approved: 3/8/2019

[scook@ans.org](mailto:scook@ans.org)

ANSI/ANS 19.10-2009 (R2016), Methods for Determining Neutron Fluence in BWR and PWR Pressure Vessel and Reactor Internals

Approved: 10/11/2016

[scook@ans.org](mailto:scook@ans.org)

ANSI/ANS 19.11-2017, Calculation and Measurement of the Moderator Temperature Coefficient of Reactivity for Pressurized Water Reactors

Approved: 4/11/2017

[scook@ans.org](mailto:scook@ans.org)

ANSI/ANS 19.3-2011 (R2017), Steady-State Neutronics Methods for Power Reactor Analysis

Approved: 1/24/2017

[scook@ans.org](mailto:scook@ans.org)

ANSI/ANS 19.3.4-2002 (R2017), The Determination of Thermal Energy Deposition Rates in Nuclear Reactors

Approved: 5/18/2017

[scook@ans.org](mailto:scook@ans.org)

ANSI/ANS 19.4-2017, A Guide for Acquisition and Documentation of Reference Power Reactor Physics Measurements for Nuclear Analysis Verification

Approved: 8/24/2017

[scook@ans.org](mailto:scook@ans.org)

ANSI/ANS 19.6.1-2011 (R2016), Reload Startup Physics Tests for Pressurized Water Reactors

Approved: 8/5/2016

[scook@ans.org](mailto:scook@ans.org)

ANSI/ANS 2.10-2017, Criteria for Retrieval, Processing, Handling, and Storage of Records from Nuclear Facility Seismic Instrumentation

Approved: 12/19/2017

[scook@ans.org](mailto:scook@ans.org)

ANSI/ANS 2.15-2013 (R2017), Criteria for Modeling and Calculating Atmospheric Dispersion of Routine Radiological Releases from Nuclear Facilities

Approved: 12/21/2017

[scook@ans.org](mailto:scook@ans.org)

ANSI/ANS 2.17-2010 (R2016), Evaluation of Subsurface Radionuclide Transport at Commercial Nuclear Power Plants

Approved: 3/10/2016

[scook@ans.org](mailto:scook@ans.org)

ANSI/ANS 2.2-2016, Earthquake Instrumentation Criteria for Nuclear Power Plants

Approved: 7/14/2016

[scook@ans.org](mailto:scook@ans.org)

ANSI/ANS 2.21-2012 (R2016), Criteria for Assessing Atmospheric Effects on the Ultimate Heat Sink

Approved: 4/18/2016

[scook@ans.org](mailto:scook@ans.org)

ANSI/ANS 2.23-2016, Nuclear Power Plant Response to an Earthquake

Approved: 4/7/2016

[scook@ans.org](mailto:scook@ans.org)

ANSI/ANS 2.26-2004 (R2017), Categorization of Nuclear Facility Structures, Systems, and Components for Seismic Design

Approved: 9/12/2017

[scook@ans.org](mailto:scook@ans.org)

ANSI/ANS 2.27-2008 (R2016), Criteria for Investigations of Nuclear Facility Sites for Seismic Hazard Assessments

Approved: 6/15/2016

[scook@ans.org](mailto:scook@ans.org)

ANSI/ANS 2.29-2008 (R2016), Probabilistic Seismic Hazard Analysis

Approved: 10/11/2016

[scook@ans.org](mailto:scook@ans.org)

ANSI/ANS 2.3-2011 (R2016), Estimating Tornado, Hurricane, and Extreme Straight Line Wind Characteristics at Nuclear Facility Sites

Approved: 6/29/2016

[scook@ans.org](mailto:scook@ans.org)

ANSI/ANS 2.30-2015, Criteria for Assessing Tectonic Surface Fault Rupture and Deformation at Nuclear Facilities

Approved: 5/26/2015

[scook@ans.org](mailto:scook@ans.org)

ANSI/ANS 2.6-2018, Guidelines for Estimating Present and Forecasting Future Population Distributions Surrounding Nuclear Facility Sites

Approved: 3/16/2018

[scook@ans.org](mailto:scook@ans.org)

ANSI/ANS 3.1-2014, Selection, Qualification, and Training of Personnel for Nuclear Power Plants

Approved: 11/20/2014

[scook@ans.org](mailto:scook@ans.org)

ANSI/ANS 3.11-2015, Determining Meteorological Information at Nuclear Facilities <i>Approved: 8/20/2015</i> <a href="mailto:scook@ans.org">scook@ans.org</a>	ANSI/ANS 57.1-1992 (R2015), Design Requirements for Light Water Reactor Fuel Handling Systems <i>Approved: 6/16/2015</i> <a href="mailto:scook@ans.org">scook@ans.org</a>	ANSI/ANS 6.3.1-1987 (R2015), Program for Testing Radiation Shields in Light Water Reactors (LWR) <i>Approved: 12/11/2015</i> <a href="mailto:scook@ans.org">scook@ans.org</a>
ANSI/ANS 3.2-2012 (R2017), Managerial, Administrative, and Quality Assurance Controls for the Operational Phase of Nuclear Power Plants <i>Approved: 4/4/2017</i> <a href="mailto:scook@ans.org">scook@ans.org</a>	ANSI/ANS 57.10-1996 (R2016), Design Criteria for Consolidation of LWR Spent Fuel <i>Approved: 7/7/2016</i> <a href="mailto:scook@ans.org">scook@ans.org</a>	ANSI/ANS 6.4-2006 (R2016), Nuclear Analysis and Design of Concrete Radiation Shielding for Nuclear Power Plants <i>Approved: 8/4/2016</i> <a href="mailto:scook@ans.org">scook@ans.org</a>
ANSI/ANS 3.4-2013 (R2018), Medical Certification and Monitoring of Personnel Requiring Operator Licenses for Nuclear Power Plants <i>Approved: 7/2/2018</i> <a href="mailto:scook@ans.org">scook@ans.org</a>	ANSI/ANS 57.3-2018, Design Requirements for New Fuel Storage Facilities at Light Water Reactor Plants <i>Approved: 2/27/2018</i> <a href="mailto:scook@ans.org">scook@ans.org</a>	ANSI/ANS 6.4.2-2006 (R2016), Specification for Radiation Shielding Materials <i>Approved: 9/23/2016</i> <a href="mailto:scook@ans.org">scook@ans.org</a>
ANSI/ANS 40.37-2009 (R2016), Mobile Low-Level Radioactive Waste Processing Systems <i>Approved: 6/30/2016</i> <a href="mailto:scook@ans.org">scook@ans.org</a>	ANSI/ANS 57.8-1995 (R2017), Fuel Assembly Identification <i>Approved: 2/23/2017</i> <a href="mailto:scook@ans.org">scook@ans.org</a>	ANSI/ANS 6.6.1-2015, Calculation and Measurement of Direct and Scattered Radiation from LWR Nuclear Power Plants <i>Approved: 8/21/2015</i> <a href="mailto:scook@ans.org">scook@ans.org</a>
ANSI/ANS 41.5-2012 (R2018), Verification and Validation of Radiological Data for Use in Waste Management and Environmental Remediation <i>Approved: 10/19/2018</i> <a href="mailto:scook@ans.org">scook@ans.org</a>	ANSI/ANS 58.14-2011 (R2017), Safety and Pressure Integrity Classification Criteria for Light Water Reactors <i>Approved: 1/12/2017</i> <a href="mailto:scook@ans.org">scook@ans.org</a>	ANSI/ANS 8.1-2014 (R2018), Nuclear Criticality Safety in Operations with Fissionable Material Outside Reactors <i>Approved: 11/29/2018</i> <a href="mailto:scook@ans.org">scook@ans.org</a>
ANSI/ANS 5.1-2014 (R2019), Decay Heat Power in Light Water Reactors <i>Approved: 2/5/2019</i> <a href="mailto:scook@ans.org">scook@ans.org</a>	ANSI/ANS 58.16-2014, Safety Categorization and Design Criteria for Non-Reactor Nuclear Facilities <i>Approved: 9/4/2014</i> <a href="mailto:scook@ans.org">scook@ans.org</a>	ANSI/ANS 8.10-2015, Criteria for Nuclear Criticality Safety Controls in Operations With Shielding and Confinement <i>Approved: 2/12/2015</i> <a href="mailto:scook@ans.org">scook@ans.org</a>
ANSI/ANS 5.10-1998 (R2012), Airborne Release Fractions at Non-Reactor Nuclear Facilities <i>Approved: 1/15/2013</i> <a href="mailto:scook@ans.org">scook@ans.org</a>	ANSI/ANS 58.8-2019, Time Response Criteria for Manual Actions at Nuclear Power Plants <i>Approved: 8/8/2019</i> <a href="mailto:scook@ans.org">scook@ans.org</a>	ANSI/ANS 8.12-1987 (R2016), Nuclear Criticality Control and Safety of Plutonium-Uranium Fuel Mixtures Outside Reactors <i>Approved: 5/6/2016</i> <a href="mailto:scook@ans.org">scook@ans.org</a>
ANSI/ANS 51.10-1991 (R2018), Auxiliary Feedwater System For Pressurized Water Reactors <i>Approved: 8/13/2018</i> <a href="mailto:scook@ans.org">scook@ans.org</a>	ANSI/ANS 58.9-2002 (R2015), Single Failure Criteria for Light Water Reactor Safety-Related Fluid Systems <i>Approved: 2/12/2015</i> <a href="mailto:scook@ans.org">scook@ans.org</a>	ANSI/ANS 8.14-2004 (R2016), Use of Soluble Neutron Absorbers in Nuclear Facilities Outside Reactors <i>Approved: 6/29/2016</i> <a href="mailto:scook@ans.org">scook@ans.org</a>
ANSI/ANS 53.1-2011 (R2016), Nuclear Safety Design Process for Modular Helium-Cooled Reactor Plants <i>Approved: 10/31/2016</i> <a href="mailto:scook@ans.org">scook@ans.org</a>	ANSI/ANS 59.51-1997 (R2015), Fuel Oil Systems for Safety-Related Emergency Diesel Generators <i>Approved: 6/19/2015</i> <a href="mailto:scook@ans.org">scook@ans.org</a>	ANSI/ANS 8.15-2014, Nuclear Criticality Control of Selected Actinide Nuclides <i>Approved: 10/10/2014</i> <a href="mailto:scook@ans.org">scook@ans.org</a>
ANSI/ANS 55.1-1992 (R2017), Solid Radioactive Waste Processing System for Light-Water-Cooled Reactor Plants <i>Approved: 8/24/2017</i> <a href="mailto:scook@ans.org">scook@ans.org</a>	ANSI/ANS 59.52-1998 (R2015), Lubricating Oil Systems for Safety-Related Emergency Diesel Generators <i>Approved: 6/19/2015</i> <a href="mailto:scook@ans.org">scook@ans.org</a>	ANSI/ANS 8.17-2004 (R2014), Criticality Safety Criteria for the Handling, Storage and Transportation of LWR Fuel Outside Reactors <i>Approved: 7/28/2014</i> <a href="mailto:scook@ans.org">scook@ans.org</a>
ANSI/ANS 56.8-2002 (R2016), Containment System Leakage Test Requirements <i>Approved: 5/26/2016</i> <a href="mailto:scook@ans.org">scook@ans.org</a>	ANSI/ANS 6.1.2-2013 (R2018), Neutron and Gamma-Ray Cross Sections for Nuclear Radiation Protection Calculations for Nuclear Power Plants <i>Approved: 10/19/2018</i> <a href="mailto:scook@ans.org">scook@ans.org</a>	ANSI/ANS 8.19-2014 (R2019), Administrative Practices for Nuclear Criticality Safety <i>Approved: 8/22/2019</i> <a href="mailto:scook@ans.org">scook@ans.org</a>

ANSI/ANS 8.20-1991 (R2015), Nuclear Criticality Safety Training

Approved: 8/3/2015

scook@ans.org

ANSI/ANS 8.21-1995 (R2019), Use of Fixed Neutron Absorbers in Nuclear Facilities Outside Reactors

Approved: 4/9/2019

scook@ans.org

ANSI/ANS 8.22-1997 (R2016), Nuclear Criticality Safety Based on Limiting and Controlling Moderators

Approved: 10/17/2016

scook@ans.org

ANSI/ANS 8.23-2007 (R2012), Nuclear Criticality Accident Emergency Planning and Response

Approved: 5/31/2012

scook@ans.org

ANSI/ANS 8.24-2017, Validation of Neutron Transport Methods for Nuclear Criticality Safety Calculations

Approved: 12/12/2017

scook@ans.org

ANSI/ANS 8.26-2007 (R2016), Criticality Safety Engineer Training and Qualification Program

Approved: 12/15/2016

scook@ans.org

ANSI/ANS 8.27-2015, Burnup Credit for LWR Fuel

Approved: 11/10/2015

scook@ans.org

ANSI/ANS 8.3-1997 (R2017), Criticality Accident Alarm System

Approved: 10/25/2017

scook@ans.org

ANSI/ANS 8.5-1996 (R2017), Use of Borosilicate-Glass Raschig Rings as a Neutron Absorber in Solutions of Fissile Material

Approved: 11/14/2017

scook@ans.org

ANSI/ANS 8.6-1983 (R2017), Safety in Conducting Subcritical Neutron-Multiplication Measurements in Situ

Approved: 8/24/2017

scook@ans.org

ANSI/ANS 8.7-1998 (R2017), Nuclear Criticality Safety in the Storage of Fissile Materials

Approved: 12/14/2017

scook@ans.org

## APA (APA - THE ENGINEERED WOOD ASSOCIATION)

ANSI 405-2018, Standard for Adhesives for Use in Structural Glued Laminated Timber

Approved: 12/12/2017

Borjen Yeh, (253) 620-7467, borjen.yeh@apawood.org

ANSI A190.1-2017, Standard for wood products - Structural Glued Laminated Timber

Approved: 1/24/2017

Borjen Yeh, (253) 620-7467, borjen.yeh@apawood.org

ANSI/APA 117-2015, Standard Specification for Structural Glued Laminated Timber of Softwood Species

Approved: 4/17/2015

Borjen Yeh, (253) 620-7467, borjen.yeh@apawood.org

ANSI/APA PRG 320-2018, Standard for Performance-Rated Cross-Laminated Timber

Approved: 2/6/2018

Borjen Yeh, (253) 620-7467, borjen.yeh@apawood.org

ANSI/APA PRP 210-2019, Standard for Performance-Rated Engineered Wood Siding

Approved: 1/18/2019

Borjen Yeh, (253) 620-7467, borjen.yeh@apawood.org

ANSI/APA PRR 410-2016, Standard for Performance Rated Engineered Wood Rim Boards

Approved: 1/24/2017

Borjen Yeh, (253) 620-7467, borjen.yeh@apawood.org

ANSI/APA PRS 610.1-2018, Standard for Performance-Rated Structural Insulated Panels in Wall Applications

Approved: 4/16/2018

Borjen Yeh, (253) 620-7467, borjen.yeh@apawood.org

## APCO (ASSOCIATION OF PUBLIC-SAFETY COMMUNICATIONS OFFICIALS-INTERNATIONAL)

ANSI/APCO 3.103.2-2015, Minimum Training Standards for Public Safety Telecommunicators

Approved: 7/14/2015

Crystal McDuffie, (919) 625-6864, mcduffiec@apointl.org; standards@apointl.org

ANSI/APCO 1.101.3-2015, Standard for Public Safety Telecommunicators When Responding to Calls of Missing, Abducted and Sexually Exploited Children

Approved: 1/8/2015

Crystal McDuffie, (919) 625-6864, mcduffiec@apointl.org; standards@apointl.org

ANSI/APCO 1.103.2-2013, Wireless 9-1-1 Deployment & Management Effective Practices Guide

Approved: 9/27/2013

Crystal McDuffie, (919) 625-6864, mcduffiec@apointl.org; standards@apointl.org

ANSI/APCO 1.107.1-2015, Standard for the Establishment of a Quality Assurance and Quality Improvement Program for Public Safety Answering Points

Approved: 4/2/2015

Crystal McDuffie, (919) 625-6864, mcduffiec@apointl.org; standards@apointl.org

ANSI/APCO 1.108.1-2018, Minimum Operational Standards for the Use of TTY/TDD or Similar Device in the Public Safety Communications Center

Approved: 8/16/2018

Crystal McDuffie, (919) 625-6864, mcduffiec@apointl.org; standards@apointl.org

ANSI/APCO 1.110.1-2015, Multi-Functional Multi-Discipline Computer Aided Dispatch (CAD) Minimal Functional Requirements

Approved: 1/7/2015

Crystal McDuffie, (919) 625-6864, mcduffiec@apointl.org; standards@apointl.org

ANSI/APCO 1.111.2-2013 (R2018), Public Safety Communications Common Disposition Codes for Data Exchange

Approved: 3/20/2018

Crystal McDuffie, (919) 625-6864, mcduffiec@apointl.org; standards@apointl.org

ANSI/APCO 1.112.1-2014, Best Practices for the Use of Social Media by Public Safety Communications

Approved: 9/19/2014

Crystal McDuffie, (919) 625-6864, mcduffiec@apointl.org; standards@apointl.org

ANSI/APCO 1.113.1-2019, Public Safety Communications Incident Handling Process

Approved: 1/9/2019

Crystal McDuffie, (919) 625-6864, mcduffiec@apointl.org; standards@apointl.org

ANSI/APCO 1.114.1-2017, APCO Recommended Best Practices for PSAP's when Processing Vehicle Telematics Calls from Telematics Service Providers

Approved: 9/29/2017

Crystal McDuffie, (919) 625-6864, mcduffiec@apointl.org; standards@apointl.org

ANSI/APCO 1.115.1-2018, Core Competencies, Operational Factors and Training for Next Generation Technologies in Public Safety Communications

Approved: 7/3/2018

Crystal McDuffie, (919) 625-6864, mcduffiec@apointl.org; standards@apointl.org

ANSI/APCO 1.116.1-2015, Public Safety  
Communications Common Status Codes for  
Data Exchange  
*Approved: 4/7/2015*

*Crystal McDuffie, (919) 625-6864,  
mcduffiec@apointl.org; standards@apointl.org*

ANSI/APCO 2.103.1-2012, Public Safety  
Communications Common Incident Types for  
Data Exchange  
*Approved: 11/2/2012*

*Crystal McDuffie, (919) 625-6864,  
mcduffiec@apointl.org; standards@apointl.org*

ANSI/APCO 2.106.1-2019, Public Safety Grade  
site Hardening Requirements  
*Approved: 6/11/2019*

*Crystal McDuffie, (919) 625-6864,  
mcduffiec@apointl.org; standards@apointl.org*

ANSI/APCO 3.101.3-2017, Core Competencies  
and Minimum Training Standards for Public  
Safety Communications Training Officer  
(CTO)  
*Approved: 9/12/2017*

*Crystal McDuffie, (919) 625-6864,  
mcduffiec@apointl.org; standards@apointl.org*

ANSI/APCO 3.102.2-2017, Core Competencies  
and Minimum Training Standards for Public  
Safety Communications Supervisors  
*Approved: 9/12/2017*

*Crystal McDuffie, (919) 625-6864,  
mcduffiec@apointl.org; standards@apointl.org*

ANSI/APCO 3.104.2-2017, Core Competencies  
and Minimum Training Standard for Public  
Safety Communications Training Coordinator  
*Approved: 9/19/2017*

*Crystal McDuffie, (919) 625-6864,  
mcduffiec@apointl.org; standards@apointl.org*

ANSI/APCO 3.105.1-2015, Minimum Training  
Standard for TTY/TDD Use in the Public  
Safety Communications Center  
*Approved: 2/24/2015*

*Crystal McDuffie, (919) 625-6864,  
mcduffiec@apointl.org; standards@apointl.org*

ANSI/APCO 3.106.2-2017, Core Competencies  
and Minimum Training Standards for Public  
Safety Communications Quality Assurance  
Evaluators  
*Approved: 9/12/2017*

*Crystal McDuffie, (919) 625-6864,  
mcduffiec@apointl.org; standards@apointl.org*

ANSI/APCO 3.107.1-2015, Core Competencies  
and Minimum Training Standards for Public  
Safety Communications Technician  
*Approved: 2/24/2015*

*Crystal McDuffie, (919) 625-6864,  
mcduffiec@apointl.org; standards@apointl.org*

ANSI/APCO 3.108.2-2018, Core Competencies  
and Minimum Training Standards for Public  
Safety Communications Instructor  
*Approved: 6/7/2018*

*Crystal McDuffie, (919) 625-6864,  
mcduffiec@apointl.org; standards@apointl.org*

ANSI/APCO 3.109.2-2014, Core Competencies  
and Minimum Training Standards for Public  
Safety Communications Manager/Director  
*Approved: 6/9/2014*

*Crystal McDuffie, (919) 625-6864,  
mcduffiec@apointl.org; standards@apointl.org*

ANSI/APCO/CSAA 2.101.2-2014, Alarm  
Monitoring Company to PSAP CAD  
Automated Secure Alarm Protocol (ASAP)  
*Approved: 8/5/2014*

*Crystal McDuffie, (919) 625-6864,  
mcduffiec@apointl.org; standards@apointl.org*

ANSI/APCO/NENA 1.102.2-2010, Public Safety  
Answering Point (PSAP) Service Capability  
Rating Scale  
*Approved: 7/28/2010*

*Crystal McDuffie, (919) 625-6864,  
mcduffiec@apointl.org; standards@apointl.org*

ANSI/APCO/NENA 1.105.2-2015, Standard for  
Telecommunicator Emergency Response  
Taskforce (TERT) Deployment  
*Approved: 7/14/2015*

*Crystal McDuffie, (919) 625-6864,  
mcduffiec@apointl.org; standards@apointl.org*

ANSI/APCO/NENA 2.105.1-2017, APCO/NENA  
NG 9-1-1 Emergency Incident Data Document  
(EIDD)  
*Approved: 1/3/2017*

*Crystal McDuffie, (919) 625-6864,  
mcduffiec@apointl.org; standards@apointl.org*

ANSI/APCO/NPSTC 1.104.2-2017, Standard  
Channel Nomenclature for the Public Safety  
Interoperability Channels  
*Approved: 1/3/2017*

*Crystal McDuffie, (919) 625-6864,  
mcduffiec@apointl.org; standards@apointl.org*

### **API (AMERICAN PETROLEUM INSTITUTE)**

ANSI/API 13M/ISO 13503-1-2004 (R2018),  
Measurement of Viscous Properties of  
Completion Fluids  
*Approved: 12/11/2018*

*Valeen Young (youngv@api.org)*

ANSI/API 19G4 (ISO 17078-4)-2011, Practices  
for Side-pocket Mandrels and Related  
Equipment  
*Approved: 1/13/2011*

*Valeen Young (youngv@api.org)*

ANSI/API 613-2002 (R2010), Special Purpose  
Gear Units for Petroleum, Chemical, and Gas  
Industry Services  
*Approved: 10/26/2010*

*Valeen Young (youngv@api.org)*

ANSI/API 671/ISO Standard 10441-2007  
(R2010), Special Purpose Couplings for  
Petroleum, Chemical and Gas Industry  
Services  
*Approved: 8/31/2010*

*Valeen Young (youngv@api.org)*

ANSI/API 6DX-201/ISO 12490-2011, Mechanical  
integrity and sizing of actuators and  
mounting kits for pipeline valves  
*Approved: 10/16/2012*

*Valeen Young (youngv@api.org)*

ANSI/API 780-2013, Security Risk Assessment  
Methodology for the Petroleum and  
Petrochemical Industries  
*Approved: 4/2/2013*

*Valeen Young (youngv@api.org)*

ANSI/API Bulletin 100-3-2014, Community  
Engagement Guidelines  
*Approved: 6/6/2014*

*Valeen Young (youngv@api.org)*

ANSI/API MPMS 14.3.1-2011, Concentric,  
Square-edged Orifice Meters Part 1 -  
General Equations and Uncertainty  
Guidelines  
*Approved: 6/10/2011*

*Valeen Young (youngv@api.org)*

ANSI/API MPMS CH. 14.3.3-2012, Orific  
Metering of Natural Gas and Other Related  
Hydrocarbon Fluids, Natural Gas Applications  
*Approved: 10/25/2012*

*Valeen Young (youngv@api.org)*

ANSI/API MPMS Ch. 21.1-2011, Electronic Gas  
Measurement  
*Approved: 6/28/2011*

*Valeen Young (youngv@api.org)*

ANSI/API MPMS Chapter 14.3.2, 5th Ed.-2016,  
Concentric, Square-Edged Orifice Meters-  
Specification and Installation Requirements  
*Approved: 2/11/2016*

*Valeen Young (youngv@api.org)*

ANSI/API MPMS Chapter 2.2C, 1st Edition-2002  
(R2015), Calibration of Upright Cylindrical  
Tanks Using the Optical-Triangulation  
Method  
*Approved: 6/19/2015*

*Valeen Young (youngv@api.org)*

<p>ANSI/API MPMS Chapter 2.2E, 1st Edition-2009 (R2015), Petroleum and Liquid Petroleum Products - Calibration of Horizontal Cylindrical Tanks - Part 1: Manual Methods <i>Approved: 6/19/2015</i> Valeen Young (<a href="mailto:youngv@api.org">youngv@api.org</a>)</p>	<p>ANSI/API Recommended Practice 2N-2015, Planning, Designing, and Constructing Structures and Pipelines for Arctic Conditions <i>Approved: 3/30/2015</i> Valeen Young (<a href="mailto:youngv@api.org">youngv@api.org</a>)</p>	<p>ANSI/API RP 17P/ISO 13628-15-2011, Recommended Practice for Manifolds and Structures on Subsea Production Systems <i>Approved: 1/15/2013</i> Valeen Young (<a href="mailto:youngv@api.org">youngv@api.org</a>)</p>
<p>ANSI/API MPMS Chapter 2.2F, 1st Edition-2009 (R2015), Petroleum and Liquid Petroleum Products - Calibration of Horizontal Cylindrical Tanks - Part 2: Internal Electro-optical Distance-ranging Method <i>Approved: 6/19/2015</i> Valeen Young (<a href="mailto:youngv@api.org">youngv@api.org</a>)</p>	<p>ANSI/API Recommended Practice 754, Second Edition-2016, Process Safety Performance Indicators for the Refining and Petrochemical Industries <i>Approved: 3/21/2016</i> Valeen Young (<a href="mailto:youngv@api.org">youngv@api.org</a>)</p>	<p>ANSI/API RP 19D/ISO 13503-5, 1st Edition-2007, Recommended Practice for Measuring the Long-term Conductivity of Proppants <i>Approved: 11/8/2007</i> Valeen Young (<a href="mailto:youngv@api.org">youngv@api.org</a>)</p>
<p>ANSI/API MPMS Chapter 22.1, 2nd Edition -2015, General Guidelines for Developing Testing Protocols for Devices Used in the Measurement of Hydrocarbon Fluids <i>Approved: 7/6/2015</i> Valeen Young (<a href="mailto:youngv@api.org">youngv@api.org</a>)</p>	<p>ANSI/API RP 100-1-2019, Hydraulic Fracturing: Well Integrity and Fracture Containment <i>Approved: 3/20/2019</i> Valeen Young (<a href="mailto:youngv@api.org">youngv@api.org</a>)</p>	<p>ANSI/API RP 2EQ-2018, Seismic design procedures and criteria for Offshore Structures <i>Approved: 12/3/2018</i> Valeen Young (<a href="mailto:youngv@api.org">youngv@api.org</a>)</p>
<p>ANSI/API MPMS Chapter 22.3, 1st Edition-2015, Flare Gas Meters <i>Approved: 7/8/2015</i> Valeen Young (<a href="mailto:youngv@api.org">youngv@api.org</a>)</p>	<p>ANSI/API RP 100-2-2015, Environmental Aspects Associated with E&amp;P Operations including Hydraulic Fracturing <i>Approved: 7/28/2015</i> Valeen Young (<a href="mailto:youngv@api.org">youngv@api.org</a>)</p>	<p>ANSI/API RP 2MET-2014, Metocean Design and Operating Considerations <i>Approved: 10/16/2014</i> Valeen Young (<a href="mailto:youngv@api.org">youngv@api.org</a>)</p>
<p>ANSI/API MPMS Chapter 5.6, 1st Edition-2007 (R2015), Measurement of Liquid Hydrocarbons by Coriolis Meters <i>Approved: 6/19/2015</i> Valeen Young (<a href="mailto:youngv@api.org">youngv@api.org</a>)</p>	<p>ANSI/API RP 10B-5/ISO 10426-5-2010 (R2015), Recommended Practice on Determination of Shrinkage and Expansion of Well Cement Formulations at Atmospheric Pressure <i>Approved: 8/18/2015</i> Valeen Young (<a href="mailto:youngv@api.org">youngv@api.org</a>)</p>	<p>ANSI/API RP 2TOP-2019, Topsides Structure <i>Approved: 5/1/2019</i> Valeen Young (<a href="mailto:youngv@api.org">youngv@api.org</a>)</p> <p>ANSI/API RP 3000-2014, Classifying and Loading of Crude Oil into Rail Tank Cars <i>Approved: 9/19/2014</i> Valeen Young (<a href="mailto:youngv@api.org">youngv@api.org</a>)</p>
<p>ANSI/API MPMS Chapter 7.5, 1st Edition-2014, Temperature Determination - Automatic Tank Temperature Measurement on Board Marine Vessels Carrying Refrigerated Hydrocarbon and Chemical Gas Fluids <i>Approved: 1/31/2014</i> Valeen Young (<a href="mailto:youngv@api.org">youngv@api.org</a>)</p>	<p>ANSI/API RP 10B-6/ISO 10426-6-2010 (R2015), Recommended Practice on Determining the Static Gel Strength of Cement Formulations <i>Approved: 8/18/2015</i> Valeen Young (<a href="mailto:youngv@api.org">youngv@api.org</a>)</p>	<p>ANSI/API RP 5A3/ISO 13678, 3rd Edition-2009 (R2015), Recommended Practice on Thread Compounds for Casing, Tubing, Line Pipe, and Drill Stem Elements <i>Approved: 8/18/2015</i> Valeen Young (<a href="mailto:youngv@api.org">youngv@api.org</a>)</p>
<p>ANSI/API MPMS Chapter 9.4, 1st edition-2017, Continuous Density Measurement Under Dynamic (Flowing) Conditions <i>Approved: 1/25/2017</i> Valeen Young (<a href="mailto:youngv@api.org">youngv@api.org</a>)</p>	<p>ANSI/API RP 10D-2/ISO 10427-2-2004 (R2015), Recommended Practice for Centralizer Placement and Stop Collar Testing <i>Approved: 8/18/2015</i> Valeen Young (<a href="mailto:youngv@api.org">youngv@api.org</a>)</p>	<p>ANSI/API RP 5A5/ISO 15463-2010 (R2015), Field Inspection of New Casing, Tubing, and Plain-end Drill Pipe <i>Approved: 8/18/2015</i> Valeen Young (<a href="mailto:youngv@api.org">youngv@api.org</a>)</p>
<p>ANSI/API Recommended Practice 2EQ-2014, Seismic Design Procedures for Offshore Structures <i>Approved: 10/16/2014</i> Valeen Young (<a href="mailto:youngv@api.org">youngv@api.org</a>)</p>	<p>ANSI/API RP 10F/ISO 10427-3-2010 (R2015), Recommended Practice for Performance Testing of Cementing Float Equipment <i>Approved: 8/18/2015</i> Valeen Young (<a href="mailto:youngv@api.org">youngv@api.org</a>)</p>	<p>ANSI/API RP 7G-2, 1st Edition/ISO 10407-2 -2009 (R2015), Recommended Practice for Drill Stem Element Inspection <i>Approved: 8/18/2015</i> Valeen Young (<a href="mailto:youngv@api.org">youngv@api.org</a>)</p>
<p>ANSI/API Recommended Practice 2GEO-2014, Geotechnical and Foundation Design Considerations <i>Approved: 10/21/2014</i> Valeen Young (<a href="mailto:youngv@api.org">youngv@api.org</a>)</p>	<p>ANSI/API RP 1173-2015, Pipeline Safety Management Systems <i>Approved: 5/19/2015</i> Valeen Young (<a href="mailto:youngv@api.org">youngv@api.org</a>)</p>	<p>ANSI/API Spec 10A, 24th Edition/ISO 10426-1 -2010 (R2015), Specification for Cements and Materials for Well Cementing <i>Approved: 8/18/2015</i> Valeen Young (<a href="mailto:youngv@api.org">youngv@api.org</a>)</p>
<p>ANSI/API Recommended Practice 2MOP-2010 (R2015), Marine Operations <i>Approved: 8/18/2015</i> Valeen Young (<a href="mailto:youngv@api.org">youngv@api.org</a>)</p>	<p>ANSI/API RP 131/ISO 10416-2008, Recommended Practice for Laboratory Testing Drilling Fluids <i>Approved: 8/25/2008</i> Valeen Young (<a href="mailto:youngv@api.org">youngv@api.org</a>)</p>	<p>ANSI/API Spec 10D/ISO 10427-1-2010 (R2015), Specification for Bow-Spring Casing Centralizers <i>Approved: 8/18/2015</i> Valeen Young (<a href="mailto:youngv@api.org">youngv@api.org</a>)</p>
	<p>ANSI/API RP 17G/ISO 13628-7-2006 (R2016), Recommended Practice for Completion/Workover Riser Systems <i>Approved: 9/26/2016</i> Valeen Young (<a href="mailto:youngv@api.org">youngv@api.org</a>)</p>	

ANSI/API Spec 11D1/ISO 14310, 3rd Edition  
-2014, Packers and Bridge Plugs

Approved: 12/17/2014

Valeen Young ([youngv@api.org](mailto:youngv@api.org))

ANSI/API Spec 11D3/ISO 15136-2-2008,  
Specification for Progressing Cavity Pump  
Systems for Artificial Lift - Surface-drive  
Systems

Approved: 5/8/2008

Valeen Young ([youngv@api.org](mailto:youngv@api.org))

ANSI/API Spec 13A/ISO 13500, 18th Ed-2010,  
Specification for Drilling Fluid Materials

Approved: 1/8/2010

Valeen Young ([youngv@api.org](mailto:youngv@api.org))

ANSI/API Spec 17D, 2nd Ed/ISO 13628-4  
(Addenda)-2015, Design and Operations of  
Subsea Production Systems - Subsea  
Wellhead and Tree Equipment

Approved: 8/6/2015

Valeen Young ([youngv@api.org](mailto:youngv@api.org))

ANSI/API Spec 17D, 2nd Ed/ISO 13628-4-2011,  
Specification for Subsea Wellhead and  
Christmas Tree Equipment

Approved: 3/1/2011

Valeen Young ([youngv@api.org](mailto:youngv@api.org))

ANSI/API Spec 5CRA/ISO 13680, 1st Edition  
-2009 (R2015), Specification for Corrosion  
Resistant Alloy Seamless Tubes for Use as  
Casing, Tubing and Coupling Stock

Approved: 8/18/2015

Valeen Young ([youngv@api.org](mailto:youngv@api.org))

ANSI/API Spec 5DP/ISO 11961-2009 (R2015),  
Specification for Drill Pipe

Approved: 8/18/2015

Valeen Young ([youngv@api.org](mailto:youngv@api.org))

ANSI/API Spec 6A/ISO 10423-2010 (R2018),  
Specification for Wellhead and Christmas  
Tree Equipment

Approved: 2/27/2018

Valeen Young ([youngv@api.org](mailto:youngv@api.org))

ANSI/API Spec 7-1/ISO 10424-1-2004-2018,  
Petroleum and natural gas industries - Rotary  
drilling equipment - Part 1: Rotary drill stem  
elements

Approved: 11/29/2018

Valeen Young ([youngv@api.org](mailto:youngv@api.org))

ANSI/API Specification 19AC/ISO 14998, 1st  
Edition-2016, Completion Accessories

Approved: 3/21/2016

Valeen Young ([youngv@api.org](mailto:youngv@api.org))

ANSI/API Specification 19G1-2010, Side-Pocket  
Mandrels

Approved: 3/15/2010

Valeen Young ([youngv@api.org](mailto:youngv@api.org))

ANSI/API Specification 19G2-2010, Flow-control  
Devices for Side-pocket Mandrels

Approved: 6/22/2010

Valeen Young ([youngv@api.org](mailto:youngv@api.org))

ANSI/API Specification 19G3 (ISO 17078-3)  
-2011, Running Tools, Pulling Tools and Kick-  
over Tools and Latches for Side-Pocket  
Mandrels

Approved: 1/13/2011

Valeen Young ([youngv@api.org](mailto:youngv@api.org))

ANSI/API Specification 19SS/ISO 17824:2010,  
Sand Screens

Approved: 4/19/2018

Valeen Young ([youngv@api.org](mailto:youngv@api.org))

ANSI/API Specification 19V/ISO 28781-2013,  
Subsurface Barrier Valves and Related  
Equipment

Approved: 2/19/2013

Valeen Young ([youngv@api.org](mailto:youngv@api.org))

ANSI/API Specification 7-1/ISO 10424-1-2007  
(R2015), Specification for Rotary Drill Stem  
Elements

Approved: 8/18/2015

Valeen Young ([youngv@api.org](mailto:youngv@api.org))

ANSI/API Standard 2350-2012, Overfill  
Protection for Storage Tanks in Petroleum  
Facilities

Approved: 3/12/2012

Valeen Young ([youngv@api.org](mailto:youngv@api.org))

ANSI/API Standard 537-2016, Flare Details for  
Petroleum, Petrochemical and Natural Gas  
Industries

Approved: 4/25/2016

Valeen Young ([youngv@api.org](mailto:youngv@api.org))

ANSI/API Standard 610-2009, Centrifugal  
Pumps for Petroleum, Petrochemical and  
Natural Gas Industries

Approved: 6/14/2010

Valeen Young ([youngv@api.org](mailto:youngv@api.org))

ANSI/API Standard 618-2008 (R2016),  
Reciprocating Compressors for Petroleum,  
Chemical, and Gas Industry Services

Approved: 8/3/2016

Valeen Young ([youngv@api.org](mailto:youngv@api.org))

ANSI/API Standard 619-2008, Rotary-Type  
Positive Displacement Compressors for  
Petroleum, Petrochemical and Natural Gas  
Industries

Approved: 8/19/2010

Valeen Young ([youngv@api.org](mailto:youngv@api.org))

ANSI/API Standard 662, Part 1-2011, Plate Heat  
Exchangers for General Refinery Services,  
Part 1 - Plate-and-Frame Heat Exchangers

Approved: 2/22/2011

Valeen Young ([youngv@api.org](mailto:youngv@api.org))

ANSI/API Standard 662, Part 2-2011, Plate Heat  
Exchangers for General Refinery Services,  
Part 2 - Braze Aluminum Plate-fin Heat  
Exchangers

Approved: 2/22/2011

Valeen Young ([youngv@api.org](mailto:youngv@api.org))

ANSI/API Standard RP 755-2010 (R2018),  
Fatigue Risk Management Systems for  
Personnel in the Refining and Petrochemical  
Industries

Approved: 1/24/2018

Valeen Young ([youngv@api.org](mailto:youngv@api.org))

ANSI/API Standard RP 755-2019, Fatigue Risk  
Management Systems for Personnel in the  
Refining and Petrochemical Industries

Approved: 3/27/2019

Valeen Young ([youngv@api.org](mailto:youngv@api.org))

ANSI/API Std 614 Pt 1, 5th Ed/ISO 10438-1, 1st  
Edition-2007, Petroleum, petrochemical and  
natural gas industries - Lubrication, shaft-  
sealing and control-oil systems and auxiliaries  
- Part 1: General Requirements

Approved: 11/28/2007

Valeen Young ([youngv@api.org](mailto:youngv@api.org))

ANSI/API Std 614 Pt 2, 5th Ed/ISO 10438-2, 1st  
Ed-2007, Petroleum, petrochemical and  
natural gas industries - Lubrication, shaft-  
sealing and control-oil systems and auxiliaries  
- Part 2: Special-purpose oil systems

Approved: 11/28/2007

Valeen Young ([youngv@api.org](mailto:youngv@api.org))

ANSI/API Std 614 Pt 3, 5th Ed/ISO 10438-3, 1st  
Ed-2007, Petroleum, petrochemical and  
natural gas industries - Lubrication, shaft-  
sealing and control-oil systems and auxiliaries  
- Part 3: General-purpose oil systems

Approved: 11/30/2007

Valeen Young ([youngv@api.org](mailto:youngv@api.org))

ANSI/API Std 614 Pt 4, 5th Ed/ISO 10438-4, 1st  
Ed-2007, Petroleum, petrochemical and  
natural gas industries - Lubrication, shaft-  
sealing and control-oil systems and auxiliaries  
- Part 4: Self-acting gas seal support systems

Approved: 11/30/2007

Valeen Young ([youngv@api.org](mailto:youngv@api.org))

ANSI/API/MPMS Ch. 17.10.1/ISO 10976-6, 1st  
Edition-2013, Measurement of Cargoes on  
Board Marine Gas Carriers - Part 1: Liquefied  
Natural Gas

Approved: 10/18/2013

Valeen Young ([youngv@api.org](mailto:youngv@api.org))

**APPA (APPA - LEADERSHIP IN EDUCATIONAL FACILITIES)**

ANSI/APPA 1000-1-2017, Total Cost of Ownership (TCO) for Facilities Asset Management - Part 1: Key Principles  
Approved: 12/14/2017  
Billie Zidek, (703) 542-3846, [billie@appa.org](mailto:billie@appa.org)

**APTECH (ASC B65) (ASSOCIATION FOR PRINT TECHNOLOGIES)**

ANSI B65-1-2011, Graphic technology - Safety requirements for graphic technology equipment and systems - Part 1: General requirements  
Approved: 9/12/2011  
Debra Orf, (703) 264-7229, [dorf@npes.org](mailto:dorf@npes.org)

ANSI B65-2-2011, Graphic technology - Safety requirements for graphic technology equipment and systems - Part 2: Prepress and press equipment and systems  
Approved: 8/23/2011  
Debra Orf, (703) 264-7229, [dorf@npes.org](mailto:dorf@npes.org)

ANSI B65-3-2011, Graphic technology - Safety requirements for graphic technology equipment and systems - Part 3: Binding and finishing equipment and systems  
Approved: 7/29/2011  
Debra Orf, (703) 264-7229, [dorf@npes.org](mailto:dorf@npes.org)

ANSI B65-5-2011, Graphic technology - Safety requirements for graphic technology equipment and systems - Part 5: Stand-alone platen presses  
Approved: 8/24/2011  
Debra Orf, (703) 264-7229, [dorf@npes.org](mailto:dorf@npes.org)

ANSI B65/NAPIM 177.1-2018, Safety standard Three-roll printing ink mills  
Approved: 11/7/2018  
Debra Orf, (703) 264-7229, [dorf@npes.org](mailto:dorf@npes.org)

ANSI B65/NAPIM 177.2-2017, Safety standard - Printing ink vertical post mixers  
Approved: 9/15/2017  
Debra Orf, (703) 264-7229, [dorf@npes.org](mailto:dorf@npes.org)

**APTECH (ASC CGATS) (ASSOCIATION FOR PRINT TECHNOLOGIES)**

ANSI CGATS 12642-1 (IT8.7/3)-2015, Graphic technology - Input data for characterization of four-colour process printing - Part 1: Initial data set  
Approved: 3/30/2015  
Mary Abbott, NPES (ASC CGATS); [mabbott@npes.org](mailto:mabbott@npes.org)

ANSI CGATS 12642-2 (IT8.7/4)-2015, Graphic technology -- Input data for characterization of 4-colour process printing -- Part 2: Expanded data set  
Approved: 8/31/2015  
Mary Abbott, NPES (ASC CGATS); [mabbott@npes.org](mailto:mabbott@npes.org)

ANSI/CGATS 21-1-2013, Graphic technology - Printing from digital data across multiple technologies - Part 1: Principles  
Approved: 3/7/2013  
Mary Abbott, NPES (ASC CGATS); [mabbott@npes.org](mailto:mabbott@npes.org)

ANSI/CGATS 21-2-2013, Graphic technology - Printing from digital data across multiple technologies - Part 2: Reference characterization data-2012  
Approved: 3/7/2013  
Mary Abbott, NPES (ASC CGATS); [mabbott@npes.org](mailto:mabbott@npes.org)

ANSI/CGATS ISO 12639-2004 (R2019), Graphic technology -- Prepress digital data exchange -- Tag image file format for image technology (TIFF/IT)  
Approved: 3/14/2019  
Mary Abbott, NPES (ASC CGATS); [mabbott@npes.org](mailto:mabbott@npes.org)

ANSI CGATS.17-2009 (R2015), Graphic technology - Exchange format for color and process control data using XML or ASCII text  
Approved: 3/18/2015  
Mary Abbott, NPES (ASC CGATS); [mabbott@npes.org](mailto:mabbott@npes.org)

ANSI/CGATS.4-2011 (R2016), Graphic technology - Graphic arts reflection densitometry measurements - Terminology, equations, image elements and procedures  
Approved: 10/11/2016  
Mary Abbott, NPES (ASC CGATS); [mabbott@npes.org](mailto:mabbott@npes.org)

ANSI CGATS.5-2018, Graphic technology Spectral measurement and colorimetric computation for graphic arts images  
Approved: 6/22/2018  
Mary Abbott, NPES (ASC CGATS); [mabbott@npes.org](mailto:mabbott@npes.org)

ANSI CGATS.7-2003 (R2013), Graphic technology - Pallet loading for printed materials  
Approved: 8/6/2013  
Mary Abbott, NPES (ASC CGATS); [mabbott@npes.org](mailto:mabbott@npes.org)

ANSI CGATS.9-2007 (R2012), Graphic technology - Graphic arts transmission densitometry measurements - Terminology, equations, image elements and procedures  
Approved: 3/1/2012  
Mary Abbott, NPES (ASC CGATS); [mabbott@npes.org](mailto:mabbott@npes.org)

ANSI/CGATS/ISO 12639 Amd1-2006, Graphic technology - Prepress digital data exchange - Tag image file format for image technology (TIFF/IT) - Amendment 1  
Approved: 6/14/2006  
Mary Abbott, NPES (ASC CGATS); [mabbott@npes.org](mailto:mabbott@npes.org)

ANSI CGATS/ISO 12640-1-2007 (R2015), Graphic technology -- Prepress digital data exchange -- Part 1: CMYK standard colour image data (CMYK/SCID)  
Approved: 3/18/2015  
Mary Abbott, NPES (ASC CGATS); [mabbott@npes.org](mailto:mabbott@npes.org)

ANSI CGATS/ISO 12640-2-2007 (R2013), Graphic technology - Prepress digital data exchange - Part 2: XYZ/sRGB encoded standard colour image data (XYZ/SCID)  
Approved: 1/29/2013  
Mary Abbott, NPES (ASC CGATS); [mabbott@npes.org](mailto:mabbott@npes.org)

ANSI/CGATS/ISO 12640-3-2007 (R2016), Graphic technology - Prepress digital data exchange - Part 3: CIELAB standard colour image data (CIELAB/SCID)  
Approved: 10/11/2016  
Mary Abbott, NPES (ASC CGATS); [mabbott@npes.org](mailto:mabbott@npes.org)

ANSI/CGATS/ISO 12640-4-2012 (R2018), Graphic technology Prepress digital data exchange Part 4: Wide gamut display-referred standard colour image data [Adobe RGB (1998)/SCID]  
Approved: 4/17/2018  
Mary Abbott, NPES (ASC CGATS); [mabbott@npes.org](mailto:mabbott@npes.org)

ANSI CGATS/ISO 12641-1-2018, Graphic technology - Prepress digital data exchange - Colour targets for input scanner calibration - Part 1: Colour targets for input scanner calibration  
Approved: 2/27/2018  
Mary Abbott, NPES (ASC CGATS); [mabbott@npes.org](mailto:mabbott@npes.org)

ANSI/CGATS/ISO 12646-2017, Graphic technology - Displays for colour proofing - Characteristics  
Approved: 1/23/2017  
Mary Abbott, NPES (ASC CGATS); [mabbott@npes.org](mailto:mabbott@npes.org)

ANSI/CGATS/ISO 12646/Amd 1:2008, Graphic technology - Displays for colour proofing - Characteristics and viewing conditions AMENDMENT 1  
Approved: 1/13/2011  
Mary Abbott, NPES (ASC CGATS); [mabbott@npes.org](mailto:mabbott@npes.org)

ANSI/CGATS/ISO 15790-2005 (R2013), Graphic technology and photography - Certified reference materials for reflection and transmission metrology - Documentation and procedures for use, including determination of combined standard uncertainty  
Approved: 1/29/2013  
Mary Abbott, NPES (ASC CGATS); [mabbott@npes.org](mailto:mabbott@npes.org)

ANSI CGATS/ISO 15930-1-2004/ISO 15930-1-2001 (R2017), Graphic technology - Prepress digital data exchange - Use of PDF - Part 1: Complete exchange using CMYK data (PDF/X-1 and PDF/X-1a)  
*Approved: 11/1/2017*

*Mary Abbott, NPES (ASC CGATS); mabbott@npes.org*

ANSI CGATS/ISO 15930-3-2004/ISO 15930-3-2002 (R2013), Graphic technology - Prepress digital data exchange - Use of PDF - Part 3: Complete exchange suitable for color managed workflows (PDF/X-3)  
*Approved: 1/29/2013*

*Mary Abbott, NPES (ASC CGATS); mabbott@npes.org*

ANSI/CGATS/ISO 15930-4-2004 (R2018), Graphic technology Prepress digital data exchange using PDF Part 4: Complete exchange of CMYK and spot colour printing data using PDF 1.4 (PDF/X-1a)  
*Approved: 4/5/2018*

*Mary Abbott, NPES (ASC CGATS); mabbott@npes.org*

ANSI/CGATS/ISO 15930-6-2004 (R2018), Graphic technology Prepress digital data exchange using PDF Part 6: Complete exchange printing data suitable for colour-manage workflows using PDF 1.4 (PDF/X-3)  
*Approved: 4/5/2018*

*Mary Abbott, NPES (ASC CGATS); mabbott@npes.org*

ANSI/CGATS/ISO 15930-7-2010 (R2016), Graphic technology - Prepress digital data exchange using PDF Part 7: Complete exchange of printing data (PDF/X-4) and partial exchange of printing data with external profile reference (PDF/X-4p) using PDF 1.6  
*Approved: 10/11/2016*

*Mary Abbott, NPES (ASC CGATS); mabbott@npes.org*

ANSI/CGATS/ISO 15930-8-2010 (R2016), Graphic technology - Prepress digital data exchange using PDF - Part 8: Partial exchange of printing data using PDF 1.6 (PDF/X-5)  
*Approved: 10/11/2016*

*Mary Abbott, NPES (ASC CGATS); mabbott@npes.org*

ANSI IT8.6-2017, Graphic technology - Prepress digital data exchange - Diecutting data (DDES3)  
*Approved: 9/15/2017*

*Mary Abbott, NPES (ASC CGATS); mabbott@npes.org*

ANSI IT8.7/1-1993 (R2013), Graphic technology - Color transmission target for input scanner calibration  
*Approved: 8/7/2013*

*Mary Abbott, NPES (ASC CGATS); mabbott@npes.org*

ANSI IT8.7/2-1993 (R2013), Graphic technology - Color reflection target for input scanner calibration

*Approved: 7/29/2013*

*Mary Abbott, NPES (ASC CGATS); mabbott@npes.org*

ANSI IT8.7/3-2010, Graphic technology - Input data for characterization of 4-color process printing

*Approved: 8/18/2010*

*Mary Abbott, NPES (ASC CGATS); mabbott@npes.org*

ANSI IT8.7/4-2005 (R2010), Graphic technology - Input data for characterization of 4-color process printing - Expanded data set

*Approved: 8/18/2010*

*Mary Abbott, NPES (ASC CGATS); mabbott@npes.org*

ANSI IT8.7/5-2019, Graphic technology Input data for characterization of 4-color process printing Extended data set

*Approved: 4/12/2019*

*Mary Abbott, NPES (ASC CGATS); mabbott@npes.org*

### **ASA (ASC S1) (ACOUSTICAL SOCIETY OF AMERICA)**

ANSI/ASA S1.1-2013, Acoustical Terminology  
*Approved: 10/14/2013*

*Susan Blaeser, (631) 390-0215, sblaeser@aip.org; asastds@aip.org*

ANSI/ASA S1.11-2016/Part 2 / IEC 61260-2:2016, Electroacoustics - Octave-Band and Fractional-Octave-Band Filters - Part 2: Pattern-Evaluation Tests

*Approved: 7/19/2016*

*Susan Blaeser, (631) 390-0215, sblaeser@aip.org; asastds@aip.org*

ANSI/ASA S1.11-2016/Part 3/IEC 61260-3:2016, Electroacoustics - Octave-Band and Fractional-Octave Band Filters, Part 3: Periodic Tests

*Approved: 7/19/2016*

*Susan Blaeser, (631) 390-0215, sblaeser@aip.org; asastds@aip.org*

ANSI/ASA S1.11-2014/Part 1/IEC 61260-1-2014 (R2019), Electroacoustics - Octave-band and Fractional-octave band Filters - Part 1: Specifications (a nationally adopted international standard)

*Approved: 8/9/2019*

*Susan Blaeser, (631) 390-0215, sblaeser@aip.org; asastds@aip.org*

ANSI/ASA S1.13-2005 (R2010), American National Standard Measurement of Sound Pressure Levels in Air

*Approved: 3/5/2010*

*Susan Blaeser, (631) 390-0215, sblaeser@aip.org; asastds@aip.org*

ANSI/ASA S1.14-1998 (R2018), Recommendations for Specifying and Testing the Susceptibility of Acoustical Instruments to Radiated Radio-frequency Electromagnetic Fields, 25 MHz to 1 GHz

*Approved: 10/5/2018*

*Susan Blaeser, (631) 390-0215, sblaeser@aip.org; asastds@aip.org*

ANSI/ASA S1.15-1997/Part 1 (R2016), Measurement Microphones - Part 1: Specifications for Laboratory Standard Microphones

*Approved: 3/31/2016*

*Susan Blaeser, (631) 390-0215, sblaeser@aip.org; asastds@aip.org*

ANSI/ASA S1.15-2005/Part 2 (R2015), Measurement Microphones - Part 2: Primary Method for Pressure Calibration of Laboratory Standard Microphones by the Reciprocity Technique

*Approved: 5/13/2015*

*Susan Blaeser, (631) 390-0215, sblaeser@aip.org; asastds@aip.org*

ANSI/ASA S1.16-2000 (R2015), Method for Measuring the Performance of Noise Discriminating and Noise Canceling Microphones

*Approved: 2/20/2015*

*Susan Blaeser, (631) 390-0215, sblaeser@aip.org; asastds@aip.org*

ANSI/ASA S1.17-2014/Part 1 (R2019), Microphone Windscreens - Part 1: Test Procedures for Measurements of Insertion Loss in Still Air

*Approved: 5/21/2019*

*Susan Blaeser, (631) 390-0215, sblaeser@aip.org; asastds@aip.org*

ANSI/ASA S1.18-2018, Method for Determining the Acoustic Impedance of Ground Surfaces

*Approved: 10/31/2018*

*Susan Blaeser, (631) 390-0215, sblaeser@aip.org; asastds@aip.org*

ANSI/ASA S1.20-2012, Procedures for Calibration of Underwater Electroacoustic Transducers

*Approved: 2/17/2012*

*Susan Blaeser, (631) 390-0215, sblaeser@aip.org; asastds@aip.org*

ANSI/ASA S1.25-1991 (R2017), Specification for Personal Noise Dosimeters

*Approved: 3/20/2017*

*Susan Blaeser, (631) 390-0215, sblaeser@aip.org; asastds@aip.org*

ANSI/ASA S1.26-2014, Methods for Calculation of the Absorption of Sound by the Atmosphere

Approved: 8/28/2014

Susan Blaeser, (631) 390-0215, [sblaeser@aip.org](mailto:sblaeser@aip.org);  
[asastds@aip.org](mailto:asastds@aip.org)

ANSI/ASA S1.4-2014/Part 1/IEC 61672-1-2013 (R2019), Electroacoustics - Sound Level Meters - Part 1: Specifications (a nationally adopted international standard)

Approved: 8/13/2019

Susan Blaeser, (631) 390-0215, [sblaeser@aip.org](mailto:sblaeser@aip.org);  
[asastds@aip.org](mailto:asastds@aip.org)

ANSI/ASA S1.4-2014/Part 2/Amd.1-2019/IEC 61672-2-2013/Amd.1-2017, Amendment 1 - Electroacoustics - Sound Level Meters - Part 2: Pattern Evaluation Tests

Approved: 8/13/2019

Susan Blaeser, (631) 390-0215, [sblaeser@aip.org](mailto:sblaeser@aip.org);  
[asastds@aip.org](mailto:asastds@aip.org)

ANSI/ASA S1.4-2014/Part 2/IEC 61672-2-2013 (R2019), Electroacoustics - Sound Level Meters - Part 2: Pattern Evaluation Tests (a nationally adopted international standard)

Approved: 8/13/2019

Susan Blaeser, (631) 390-0215, [sblaeser@aip.org](mailto:sblaeser@aip.org);  
[asastds@aip.org](mailto:asastds@aip.org)

ANSI/ASA S1.4-2014/Part 3/IEC 61672-3-2013 (R2019), Electroacoustics - Sound Level Meters - Part 3: Periodic Tests (a nationally adopted international standard)

Approved: 8/13/2019

Susan Blaeser, (631) 390-0215, [sblaeser@aip.org](mailto:sblaeser@aip.org);  
[asastds@aip.org](mailto:asastds@aip.org)

ANSI/ASA S1.40-2006 (R2016), Specifications and Verification Procedures for Sound Calibrators

Approved: 9/26/2016

Susan Blaeser, (631) 390-0215, [sblaeser@aip.org](mailto:sblaeser@aip.org);  
[asastds@aip.org](mailto:asastds@aip.org)

ANSI/ASA S1.42-2001 (R2016), Design Response of Weighting Networks for Acoustical Measurements

Approved: 3/31/2016

Susan Blaeser, (631) 390-0215, [sblaeser@aip.org](mailto:sblaeser@aip.org);  
[asastds@aip.org](mailto:asastds@aip.org)

ANSI ASA S1.6-2016, Preferred Frequencies and Filter Band Center Frequencies for Acoustical Measurements

Approved: 8/15/2016

Susan Blaeser, (631) 390-0215, [sblaeser@aip.org](mailto:sblaeser@aip.org);  
[asastds@aip.org](mailto:asastds@aip.org)

ANSI/ASA S1.8-2016, Reference Values for Levels Used in Acoustics and Vibrations

Approved: 5/6/2016

Susan Blaeser, (631) 390-0215, [sblaeser@aip.org](mailto:sblaeser@aip.org);  
[asastds@aip.org](mailto:asastds@aip.org)

## ASA (ASC S12) (ACOUSTICAL SOCIETY OF AMERICA)

ANSI/ASA S12.10-2011/Part 2, Acoustics - Measurement of Airborne Noise Emitted by Information Technology and Telecommunications Equipment - Part 2: Declaration of Noise Emission Levels

Approved: 8/17/2011

Susan Blaeser, (631) 390-0215, [sblaeser@aip.org](mailto:sblaeser@aip.org);  
[asastds@aip.org](mailto:asastds@aip.org)

ANSI/ASA S12.1-1983 (R2016), Guidelines for the Preparation of Standard Procedures to Determine the Noise Emission from Sources

Approved: 5/6/2016

Susan Blaeser, (631) 390-0215, [sblaeser@aip.org](mailto:sblaeser@aip.org);  
[asastds@aip.org](mailto:asastds@aip.org)

ANSI ASA S12.11-2013/Part 1/ISO 10302-1:2011 (R2018), Acoustics - Measurement of airborne noise emitted and structure-borne vibration induced by small air-moving devices - Part 1: Airborne noise measurement (a nationally adopted international standard)

Approved: 7/13/2018

Susan Blaeser, (631) 390-0215, [sblaeser@aip.org](mailto:sblaeser@aip.org);  
[asastds@aip.org](mailto:asastds@aip.org)

ANSI ASA S12.11 PT 2-2013, ISO 10302-2:2011 (R2018), Acoustics - Measurement of airborne noise emitted and structure-borne vibration induced by small air-moving devices - Part 2: Structure-borne vibration measurements (a nationally adopted international standard)

Approved: 7/13/2018

Susan Blaeser, (631) 390-0215, [sblaeser@aip.org](mailto:sblaeser@aip.org);  
[asastds@aip.org](mailto:asastds@aip.org)

ANSI/ASA S12.12-1992 (R2017), Engineering Method for the Determination of Sound Power Levels of Noise Sources Using Sound Intensity

Approved: 9/29/2017

Susan Blaeser, (631) 390-0215, [sblaeser@aip.org](mailto:sblaeser@aip.org);  
[asastds@aip.org](mailto:asastds@aip.org)

ANSI/ASA S12.14-1992 (R2012), Methods for the Field Measurement of the Sound Output of Audible Public Warning Devices Installed at Fixed Locations Outdoors

Approved: 11/30/2012

Susan Blaeser, (631) 390-0215, [sblaeser@aip.org](mailto:sblaeser@aip.org);  
[asastds@aip.org](mailto:asastds@aip.org)

ANSI/ASA S12.15-1992 (2016), Acoustics - Portable Electric Power Tools, Stationary and Fixed Electric Power Tools, and Gardening Appliances - Measurement of Sound Emitted

Approved: 9/1/2016

Susan Blaeser, (631) 390-0215, [sblaeser@aip.org](mailto:sblaeser@aip.org);  
[asastds@aip.org](mailto:asastds@aip.org)

ANSI/ASA S12.17-1996 (R2016), Impulse Sound Propagation for Environmental Noise Assessment

Approved: 5/6/2016

Susan Blaeser, (631) 390-0215, [sblaeser@aip.org](mailto:sblaeser@aip.org);  
[asastds@aip.org](mailto:asastds@aip.org)

ANSI/ASA S12.18-1994 (R2019), Procedures for Outdoor Measurement of Sound Pressure Level

Approved: 5/10/2019

Susan Blaeser, (631) 390-0215, [sblaeser@aip.org](mailto:sblaeser@aip.org);  
[asastds@aip.org](mailto:asastds@aip.org)

ANSI/ASA S12.19-1996 (R2016), Measurement of Occupational Noise Exposure

Approved: 5/6/2016

Susan Blaeser, (631) 390-0215, [sblaeser@aip.org](mailto:sblaeser@aip.org);  
[asastds@aip.org](mailto:asastds@aip.org)

ANSI/ASA S12.2-2019, Criteria for Evaluating Room Noise

Approved: 5/21/2019

Susan Blaeser, (631) 390-0215, [sblaeser@aip.org](mailto:sblaeser@aip.org);  
[asastds@aip.org](mailto:asastds@aip.org)

ANSI/ASA S12.23-1989 (R2016), Method for the Designation of Sound Power Emitted by Machinery and Equipment

Approved: 5/6/2016

Susan Blaeser, (631) 390-0215, [sblaeser@aip.org](mailto:sblaeser@aip.org);  
[asastds@aip.org](mailto:asastds@aip.org)

ANSI/ASA S12.3-1985 (R2016), Statistical Methods for Determining and Verifying Stated Noise Emission Values of Machinery and Equipment

Approved: 5/6/2016

Susan Blaeser, (631) 390-0215, [sblaeser@aip.org](mailto:sblaeser@aip.org);  
[asastds@aip.org](mailto:asastds@aip.org)

ANSI/ASA S12.42-2010, Methods for the Measurement of Insertion Loss of Hearing Protection Devices in Continuous or Impulsive Noise Using Microphone-in-Real-Ear or Acoustic Test Fixture Procedures

Approved: 1/11/2010

Susan Blaeser, (631) 390-0215, [sblaeser@aip.org](mailto:sblaeser@aip.org);  
[asastds@aip.org](mailto:asastds@aip.org)

ANSI/ASA S12.43-1997 (R2017), Methods for Measurement of Sound Emitted by Machinery and Equipment at Workstations and Other Specified Positions

Approved: 9/29/2017

Susan Blaeser, (631) 390-0215, [sblaeser@aip.org](mailto:sblaeser@aip.org);  
[asastds@aip.org](mailto:asastds@aip.org)

ANSI/ASA S12.44-1997 (R2017), Standard Methods for Calculation of Sound Emitted by Machinery and Equipment at Workstations and Other Specified Positions from Sound Power Level

Approved: 9/29/2017

Susan Blaeser, (631) 390-0215, [sblaeser@aip.org](mailto:sblaeser@aip.org);  
[asastds@aip.org](mailto:asastds@aip.org)

ANSI ASA S12.5-2016/ISO 6926-2016, Acoustics - Requirements for the Performance and Calibration of Reference Sound Sources Used for the Determination of Sound Power Levels  
*Approved: 4/11/2016*

*Susan Blaeser, (631) 390-0215, [sblaeser@aip.org](mailto:sblaeser@aip.org); [asastds@aip.org](mailto:asastds@aip.org)*

ANSI/ASA S12.50-2002/ISO 3740-2000 (R2017), Acoustics - Determination of sound power levels of noise sources - Guidelines for the use of basic standards

*Approved: 10/5/2017*

*Susan Blaeser, (631) 390-0215, [sblaeser@aip.org](mailto:sblaeser@aip.org); [asastds@aip.org](mailto:asastds@aip.org)*

ANSI ASA S12.51-2012/ISO 3741-2010 (R2017), Acoustics - Determination of sound power levels and sound energy levels of noise sources using sound pressure - Precision methods for reverberation test rooms

*Approved: 3/2/2017*

*Susan Blaeser, (631) 390-0215, [sblaeser@aip.org](mailto:sblaeser@aip.org); [asastds@aip.org](mailto:asastds@aip.org)*

ANSI/ASA S12.53-1999/Part 2 (R2015)/ISO 3743 -2-1994 (R2015), Acoustics - Determination of sound power levels of noise sources using sound pressure - Engineering methods for small, movable sources in reverberant fields - Part 2: Methods for special reverberation test rooms.

*Approved: 1/26/2015*

*Susan Blaeser, (631) 390-0215, [sblaeser@aip.org](mailto:sblaeser@aip.org); [asastds@aip.org](mailto:asastds@aip.org)*

ANSI/ASA S12.53-2011/Part 1/ISO 3743-1:2010 (R2016), Acoustics - Determination of sound power levels and sound energy levels of noise sources using sound pressure - Engineering methods for small movable sources in reverberant fields - Part 1: Comparison method for a hard-walled test room

*Approved: 2/25/2016*

*Susan Blaeser, (631) 390-0215, [sblaeser@aip.org](mailto:sblaeser@aip.org); [asastds@aip.org](mailto:asastds@aip.org)*

ANSI/ASA S12.54-2011/ISO 3744-2010 (R2016), Acoustics - Determination of sound power levels and sound energy levels of noise sources using sound pressure - Engineering methods for an essentially free field over a reflecting plane

*Approved: 2/25/2016*

*Susan Blaeser, (631) 390-0215, [sblaeser@aip.org](mailto:sblaeser@aip.org); [asastds@aip.org](mailto:asastds@aip.org)*

ANSI/ASA S12.55-2012, ISO 3745:2012, Acoustics - Determination of sound power levels and sound energy levels of noise sources using sound pressure - Precision methods for anechoic rooms and hemi-anechoic rooms

*Approved: 8/23/2012*

*Susan Blaeser, (631) 390-0215, [sblaeser@aip.org](mailto:sblaeser@aip.org); [asastds@aip.org](mailto:asastds@aip.org)*

ANSI ASA S12.55-2012, ISO 3745:2012 (R2019), Acoustics - Determination of sound power levels and sound energy levels of noise sources using sound pressure - Precision methods for anechoic rooms and hemi-anechoic rooms (a nationally adopted international standard)

*Approved: 1/17/2019*

*Susan Blaeser, (631) 390-0215, [sblaeser@aip.org](mailto:sblaeser@aip.org); [asastds@aip.org](mailto:asastds@aip.org)*

ANSI/ASA S12.56-2011 / ISO 3746:2010 (R2016), Acoustics - Determination of sound power levels and sound energy levels of noise sources using sound pressure - Survey method using an enveloping measurement surface over a reflecting plane

*Approved: 5/6/2016*

*Susan Blaeser, (631) 390-0215, [sblaeser@aip.org](mailto:sblaeser@aip.org); [asastds@aip.org](mailto:asastds@aip.org)*

ANSI/ASA S12.57-2011/ISO 3747-2010 (R2016), Acoustics - Determination of sound power levels and sound energy levels of noise sources using sound pressure - Engineering/survey methods for use in situ in a reverberant environment

*Approved: 7/19/2016*

*Susan Blaeser, (631) 390-0215, [sblaeser@aip.org](mailto:sblaeser@aip.org); [asastds@aip.org](mailto:asastds@aip.org)*

ANSI ASA S12.58-2012 (R2019), Sound Power Level Determination for Sources Using a Single-source Position

*Approved: 1/17/2019*

*Susan Blaeser, (631) 390-0215, [sblaeser@aip.org](mailto:sblaeser@aip.org); [asastds@aip.org](mailto:asastds@aip.org)*

ANSI/ASA S12.6-2016, Methods for Measuring the Real-Ear Attenuation of Hearing Protectors

*Approved: 6/16/2016*

*Susan Blaeser, (631) 390-0215, [sblaeser@aip.org](mailto:sblaeser@aip.org); [asastds@aip.org](mailto:asastds@aip.org)*

ANSI/ASA S12.60-2009/Part 2 (R2014), Standard Acoustical Performance Criteria, Design Requirements, And Guidelines For Schools - Part 2: Relocatable Classroom Factors

*Approved: 9/11/2014*

*Susan Blaeser, (631) 390-0215, [sblaeser@aip.org](mailto:sblaeser@aip.org); [asastds@aip.org](mailto:asastds@aip.org)*

ANSI/ASA S12.60-2019/Part 4, Acoustical Performance Criteria, Design Requirements, and Guidelines for Schools, Part 4: Acoustic Standards for Physical Education Teaching Environments

*Approved: 7/29/2019*

*Susan Blaeser, (631) 390-0215, [sblaeser@aip.org](mailto:sblaeser@aip.org); [asastds@aip.org](mailto:asastds@aip.org)*

ANSI/ASA S12.60/Part 1-2010 (R2015), Standard Acoustical Performance Criteria, Design Requirements, and Guidelines for Schools - Part 1: Permanent Schools

*Approved: 4/1/2015*

*Susan Blaeser, (631) 390-0215, [sblaeser@aip.org](mailto:sblaeser@aip.org); [asastds@aip.org](mailto:asastds@aip.org)*

ANSI/ASA S12.62-2012/ISO 9613-2:1996 (MOD) (R2017), Acoustics - Attenuation of sound during propagation outdoors - Part 2: General method of calculation (a modified nationally adopted international standard)

*Approved: 10/5/2017*

*Susan Blaeser, (631) 390-0215, [sblaeser@aip.org](mailto:sblaeser@aip.org); [asastds@aip.org](mailto:asastds@aip.org)*

ANSI/ASA S12.64-2009/Part 1 (R2014), Standard Quantities and Procedures for Description and Measurement of Underwater Sound from Ships - Part 1: General Requirements

*Approved: 9/10/2014*

*Susan Blaeser, (631) 390-0215, [sblaeser@aip.org](mailto:sblaeser@aip.org); [asastds@aip.org](mailto:asastds@aip.org)*

ANSI/ASA S12.65-2006 (R2011), Rating Noise with Respect to Speech Interference

*Approved: 3/30/2011*

*Susan Blaeser, (631) 390-0215, [sblaeser@aip.org](mailto:sblaeser@aip.org); [asastds@aip.org](mailto:asastds@aip.org)*

ANSI/ASA S12.67-2008 (R2013), Pre-Installation Airborne Sound Measurements and Acceptance Criteria of Shipboard Equipment

*Approved: 11/26/2013*

*Susan Blaeser, (631) 390-0215, [sblaeser@aip.org](mailto:sblaeser@aip.org); [asastds@aip.org](mailto:asastds@aip.org)*

ANSI/ASA S12.68-2007 (R2017), Methods of Estimating Effective A-Weighted Sound Pressure Levels When Hearing Protectors are Worn

*Approved: 9/29/2017*

*Susan Blaeser, (631) 390-0215, [sblaeser@aip.org](mailto:sblaeser@aip.org); [asastds@aip.org](mailto:asastds@aip.org)*

ANSI/ASA S12.69-2010 (R2015), Procedure for Testing Railroad Horns ex situ

*Approved: 10/27/2015*

*Susan Blaeser, (631) 390-0215, [sblaeser@aip.org](mailto:sblaeser@aip.org); [asastds@aip.org](mailto:asastds@aip.org)*

ANSI/ASA S12.7-1986 (R2015), Methods for Measurement of Impulse Noise

Approved: 11/3/2015

Susan Blaeser, (631) 390-0215, [sblaeser@aip.org](mailto:sblaeser@aip.org); [asastds@aip.org](mailto:asastds@aip.org)

ANSI/ASA S12.70-2016, Criteria for Evaluating Speech Privacy in Health Care Facilities

Approved: 7/19/2016

Susan Blaeser, (631) 390-0215, [sblaeser@aip.org](mailto:sblaeser@aip.org); [asastds@aip.org](mailto:asastds@aip.org)

ANSI ASA S12.71-2018, Performance Criteria for Systems that Estimate the Attenuation of Passive Hearing Protectors for Individual Users

Approved: 5/7/2018

Susan Blaeser, (631) 390-0215, [sblaeser@aip.org](mailto:sblaeser@aip.org); [asastds@aip.org](mailto:asastds@aip.org)

ANSI/ASA S12.72-2015, Procedure for Measuring the Ambient Noise Level in a Room

Approved: 2/24/2015

Susan Blaeser, (631) 390-0215, [sblaeser@aip.org](mailto:sblaeser@aip.org); [asastds@aip.org](mailto:asastds@aip.org)

ANSI ASA S12.75-2012, Methods for the Measurement of Noise Emissions from High Performance Military Jet Aircraft

Approved: 9/20/2012

Susan Blaeser, (631) 390-0215, [sblaeser@aip.org](mailto:sblaeser@aip.org); [asastds@aip.org](mailto:asastds@aip.org)

ANSI/ASA S12.76-2017, Methods for Measurement of Supersonic Jet Noise from Uninstalled Military Aircraft Engines

Approved: 3/27/2017

Susan Blaeser, (631) 390-0215, [sblaeser@aip.org](mailto:sblaeser@aip.org); [asastds@aip.org](mailto:asastds@aip.org)

ANSI/ASA S12.8-1998 (R2013), Standard Methods for Determining the Insertion Loss of Outdoor Noise Barriers

Approved: 5/28/2013

Susan Blaeser, (631) 390-0215, [sblaeser@aip.org](mailto:sblaeser@aip.org); [asastds@aip.org](mailto:asastds@aip.org)

ANSI ASA S12.9-1992/Part 2 (R2018), Quantities and Procedures for Description and Measurement of Environmental Sound, Part 2: Measurement of Long-term, Wide-area Sound

Approved: 6/29/2018

Susan Blaeser, (631) 390-0215, [sblaeser@aip.org](mailto:sblaeser@aip.org); [asastds@aip.org](mailto:asastds@aip.org)

ANSI/ASA S12.9-2005/Part 4 (R2015), Quantities and Procedures for Description and Measurement of Environmental Sound - Part 4: Noise Assessment and Prediction of Long-Term Community Response

Approved: 10/27/2015

Susan Blaeser, (631) 390-0215, [sblaeser@aip.org](mailto:sblaeser@aip.org); [asastds@aip.org](mailto:asastds@aip.org)

ANSI/ASA S12.9-2007/Part 5 (R2017), Quantities and Procedures for Description and Measurement of Environmental Sound - Part 5: Sound Level Descriptors for Determination of Compatible Land Us

Approved: 9/29/2017

Susan Blaeser, (631) 390-0215, [sblaeser@aip.org](mailto:sblaeser@aip.org); [asastds@aip.org](mailto:asastds@aip.org)

ANSI ASA S12.9-2013/Part 1 (R2018), Quantities and Procedures for Description and Measurement of Environmental Sound - Part 1: Basic Quantities and Definitions

Approved: 6/29/2018

Susan Blaeser, (631) 390-0215, [sblaeser@aip.org](mailto:sblaeser@aip.org); [asastds@aip.org](mailto:asastds@aip.org)

ANSI ASA S12.9-2013/Part 3 (R2018), Quantities and Procedures for Description and Measurement of Environmental Sound, Part 3: Short-term Measurements with an Observer Present

Approved: 6/29/2018

Susan Blaeser, (631) 390-0215, [sblaeser@aip.org](mailto:sblaeser@aip.org); [asastds@aip.org](mailto:asastds@aip.org)

ANSI ASA S12.9-2016/Part 7, Quantities and Procedures for Description and Measurement of Environmental Sound, Part 7: Measurement of Low Frequency Noise and Infrasound Outdoors in the Presence of Wind and Indoors in Occupied Spaces

Approved: 4/25/2016

Susan Blaeser, (631) 390-0215, [sblaeser@aip.org](mailto:sblaeser@aip.org); [asastds@aip.org](mailto:asastds@aip.org)

ANSI/ASA S12.10-2010/Part 1, Acoustics - Measurement of Airborne Noise Emitted by Information Technology and Telecommunications Equipment - Part 1: Determination of Sound Power Level and Emission Sound Pressure Level

Approved: 10/6/2010

Susan Blaeser, (631) 390-0215, [sblaeser@aip.org](mailto:sblaeser@aip.org); [asastds@aip.org](mailto:asastds@aip.org)

## ASA (ASC S2) (ACOUSTICAL SOCIETY OF AMERICA)

ANSI/ASA S2.75-2017/Part 2, Shaft Alignment Methodology, Part 2: Vocabulary

Approved: 6/6/2017

Susan Blaeser, (631) 390-0215, [sblaeser@aip.org](mailto:sblaeser@aip.org); [asastds@aip.org](mailto:asastds@aip.org)

ANSI/ASA S2.1-2009 (R2014), ISO 2041-2009 (R2014), Standard Mechanical vibration, shock and condition monitoring -Vocabulary

Approved: 9/11/2014

Susan Blaeser, (631) 390-0215, [sblaeser@aip.org](mailto:sblaeser@aip.org); [asastds@aip.org](mailto:asastds@aip.org)

ANSI/ASA S2.16-1997 (R2016), Vibratory Noise Measurements and Acceptance Requirements for Shipboard Equipment

Approved: 6/16/2016

Susan Blaeser, (631) 390-0215, [sblaeser@aip.org](mailto:sblaeser@aip.org); [asastds@aip.org](mailto:asastds@aip.org)

ANSI/ASA S2.2-1959 (R2016), Methods for the Calibration of Shock and Vibration Pickups

Approved: 6/16/2016

Susan Blaeser, (631) 390-0215, [sblaeser@aip.org](mailto:sblaeser@aip.org); [asastds@aip.org](mailto:asastds@aip.org)

ANSI/ASA S2.20-1983 (R2011), Estimating Air Blast Characteristics for Single Point Explosions in Air, with a Guide to Evaluation of Atmospheric Propagation and Effects

Approved: 4/22/2011

Susan Blaeser, (631) 390-0215, [sblaeser@aip.org](mailto:sblaeser@aip.org); [asastds@aip.org](mailto:asastds@aip.org)

ANSI ASA S2.21-1998 (R2017), Method for Preparation of a Standard Material for Dynamic Mechanical Measurements

Approved: 8/24/2017

Susan Blaeser, (631) 390-0215, [sblaeser@aip.org](mailto:sblaeser@aip.org); [asastds@aip.org](mailto:asastds@aip.org)

ANSI ASA S2.22-1998 (R2017), Resonance Method for Measuring the Dynamic Mechanical Properties of Viscoelastic Materials

Approved: 8/24/2017

Susan Blaeser, (631) 390-0215, [sblaeser@aip.org](mailto:sblaeser@aip.org); [asastds@aip.org](mailto:asastds@aip.org)

ANSI ASA S2.23-1998 (R2017), Single Cantilever Beam Method for Measuring the Dynamic Mechanical Properties of Viscoelastic Materials

Approved: 8/24/2017

Susan Blaeser, (631) 390-0215, [sblaeser@aip.org](mailto:sblaeser@aip.org); [asastds@aip.org](mailto:asastds@aip.org)

ANSI/ASA S2.24-2001 (R2016), Graphical Presentation of the Complex Modulus of Viscoelastic Materials

Approved: 3/31/2016

Susan Blaeser, (631) 390-0215, [sblaeser@aip.org](mailto:sblaeser@aip.org); [asastds@aip.org](mailto:asastds@aip.org)

ANSI/ASA S2.25-2004 (R2014), Guide for the Measurement, Reporting, and Evaluation of Hull and Superstructure Vibration in Ships

Approved: 9/24/2014

Susan Blaeser, (631) 390-0215, [sblaeser@aip.org](mailto:sblaeser@aip.org); [asastds@aip.org](mailto:asastds@aip.org)

ANSI/ASA S2.26-2001 (R2016), Vibration Testing Requirements and Acceptance Criteria for Shipboard Equipment

Approved: 6/16/2016

Susan Blaeser, (631) 390-0215, [sblaeser@aip.org](mailto:sblaeser@aip.org); [asastds@aip.org](mailto:asastds@aip.org)

ANSI/ASA S2.27-2002 (R2014), Guidelines for the Measurement and Evaluation of Vibration of Ship Propulsion Machinery

Approved: 6/24/2014

Susan Blaeser, (631) 390-0215, [sblaeser@aip.org](mailto:sblaeser@aip.org); [asastds@aip.org](mailto:asastds@aip.org)

ANSI/ASA S2.28-2009 (R2019), Guide for the Measurement and Evaluation of Broadband Vibration of Surface Ship Auxiliary Rotating Machinery

Approved: 6/3/2019

Susan Blaeser, (631) 390-0215, [sblaeser@aip.org](mailto:sblaeser@aip.org); [asastds@aip.org](mailto:asastds@aip.org)

ANSI/ASA S2.29-2003 (R2019), Guide for the Measurement and Evaluation of Vibration of Machine Shafts on Shipboard Machinery

Approved: 1/17/2019

Susan Blaeser, (631) 390-0215, [sblaeser@aip.org](mailto:sblaeser@aip.org); [asastds@aip.org](mailto:asastds@aip.org)

ANSI/ASA S2.31-1979 (R2014), Standard Methods for the Experimental Determination of Mechanical Mobility, Part 1: Basic Definitions and Transducers

Approved: 9/11/2014

Susan Blaeser, (631) 390-0215, [sblaeser@aip.org](mailto:sblaeser@aip.org); [asastds@aip.org](mailto:asastds@aip.org)

ANSI/ASA S2.32-1982 (R2014), Standard Methods for the Experimental Determination of Mechanical Mobility, Part 2: Measurements Using Single-Point Translational Excitation

Approved: 9/11/2014

Susan Blaeser, (631) 390-0215, [sblaeser@aip.org](mailto:sblaeser@aip.org); [asastds@aip.org](mailto:asastds@aip.org)

ANSI/ASA S2.34-1984 (R2015), Standard Guide to the Experimental Determination of Rotational Mobility Properties and the Complete Mobility Matrix

Approved: 4/1/2015

Susan Blaeser, (631) 390-0215, [sblaeser@aip.org](mailto:sblaeser@aip.org); [asastds@aip.org](mailto:asastds@aip.org)

ANSI/ASA S2.4-1976 (R2014), Method for Specifying the Characteristics of Auxiliary Analog Equipment for Shock and Vibration Measurements

Approved: 11/5/2014

Susan Blaeser, (631) 390-0215, [sblaeser@aip.org](mailto:sblaeser@aip.org); [asastds@aip.org](mailto:asastds@aip.org)

ANSI/ASA S2.46-1989 (R2015), Standard Characteristics to be Specified for Seismic Transducers

Approved: 4/1/2015

Susan Blaeser, (631) 390-0215, [sblaeser@aip.org](mailto:sblaeser@aip.org); [asastds@aip.org](mailto:asastds@aip.org)

ANSI/ASA S2.61-1989 (R2015), Guide to Mechanical Mounting of Accelerometers

Approved: 8/27/2015

Susan Blaeser, (631) 390-0215, [sblaeser@aip.org](mailto:sblaeser@aip.org); [asastds@aip.org](mailto:asastds@aip.org)

ANSI/ASA S2.62-2009 (R2019), Shock Test Requirements for Equipment in a Rugged Shock Environment

Approved: 8/15/2019

Susan Blaeser, (631) 390-0215, [sblaeser@aip.org](mailto:sblaeser@aip.org); [asastds@aip.org](mailto:asastds@aip.org)

ANSI/ASA S2.70-2006 (R2016), Guide for the Measurement and Evaluation of Human Exposure to Vibration Transmitted to the Hand

Approved: 6/17/2016

Susan Blaeser, (631) 390-0215, [sblaeser@aip.org](mailto:sblaeser@aip.org); [asastds@aip.org](mailto:asastds@aip.org)

ANSI/ASA S2.71-1983 (R2012), Standards Guide to the Evaluation of Human Exposure to Vibration in Buildings

Approved: 8/6/2012

Susan Blaeser, (631) 390-0215, [sblaeser@aip.org](mailto:sblaeser@aip.org); [asastds@aip.org](mailto:asastds@aip.org)

ANSI/ASA S2.72-2002/Part 1 ISO 2631-1-1997 (R2018), Mechanical vibration and shock - Evaluation of human exposure to whole-body vibration - Part 1: General requirements (a nationally adopted international standard)

Approved: 9/11/2018

Susan Blaeser, (631) 390-0215, [sblaeser@aip.org](mailto:sblaeser@aip.org); [asastds@aip.org](mailto:asastds@aip.org)

ANSI/ASA S2.72-2003/Part 4 (R2018)/ISO 2631-4-2001 (R2018), Mechanical Vibration and Shock - Evaluation of Human Exposure to Whole-Body Vibration - Part 4: Guidelines for the Evaluation of the Effects of Vibration and Rotational Motion on Passenger and Crew Comfort in Fixed-Guideway Transport Systems

Approved: 9/11/2018

Susan Blaeser, (631) 390-0215, [sblaeser@aip.org](mailto:sblaeser@aip.org); [asastds@aip.org](mailto:asastds@aip.org)

ANSI/ASA S2.72/Part 1 Amd. 1-2010/ISO 2631-1 Amd. 1:2010 (R2018), Mechanical vibration and shock - Evaluation of human exposure to whole-body vibration - Part 1: General requirements - Amendment 1 (a nationally adopted international standard amendment)

Approved: 9/11/2018

Susan Blaeser, (631) 390-0215, [sblaeser@aip.org](mailto:sblaeser@aip.org); [asastds@aip.org](mailto:asastds@aip.org)

ANSI/ASA S2.72/Part 4 Amd. 1-2010/ISO 2631-4 Amd. 1:2010 (R2018), Mechanical vibration and shock - Evaluation of human exposure to whole-body vibration - Part 4: Guidelines for the evaluation of the effects of vibration and rotational motion on passenger and crew comfort in fixed-guideway transport systems, Amendment 1 (a Nationally Adopted International Standard Amendment)

Approved: 9/11/2018

Susan Blaeser, (631) 390-0215, [sblaeser@aip.org](mailto:sblaeser@aip.org); [asastds@aip.org](mailto:asastds@aip.org)

ANSI/ASA S2.73-2013/ISO 10819:2013 (R2019), Mechanical Vibration and Shock - Hand-arm Vibration - Measurement and Evaluation of the Vibration Transmissibility of Gloves at the Palm of the Hand (a nationally adopted international standard)

Approved: 5/3/2019

Susan Blaeser, (631) 390-0215, [sblaeser@aip.org](mailto:sblaeser@aip.org); [asastds@aip.org](mailto:asastds@aip.org)

ANSI/ASA S2.73 Amd.1-2019/ISO 10819 Amd.1 -2019, Mechanical vibration and shock – Hand-arm vibration – Measurement and evaluation of the vibration transmissibility of gloves at the palm of the hand – Amendment 1

Approved: 8/16/2019

Susan Blaeser, (631) 390-0215, [sblaeser@aip.org](mailto:sblaeser@aip.org); [asastds@aip.org](mailto:asastds@aip.org)

ANSI ASA S2.75-2017/Part 1, Shaft Alignment Methodology, Part 1: General Principles, Methods, Practices, and Tolerances

Approved: 6/6/2017

Susan Blaeser, (631) 390-0215, [sblaeser@aip.org](mailto:sblaeser@aip.org); [asastds@aip.org](mailto:asastds@aip.org)

ANSI/ASA S2.8-2007 (R2017), Technical Information Used for Resilient Mounting Applications

Approved: 3/16/2017

Susan Blaeser, (631) 390-0215, [sblaeser@aip.org](mailto:sblaeser@aip.org); [asastds@aip.org](mailto:asastds@aip.org)

ANSI ASA S2.9-2008 (R2018), Parameters for Specifying Damping Properties of Materials and System Damping

Approved: 6/13/2018

Susan Blaeser, (631) 390-0215, [sblaeser@aip.org](mailto:sblaeser@aip.org); [asastds@aip.org](mailto:asastds@aip.org)

## **ASA (ASC S3) (ACOUSTICAL SOCIETY OF AMERICA)**

ANSI/ASA S3.1-1999 (R2018), Maximum Permissible Ambient Noise Levels for Audiometric Test Rooms

Approved: 12/14/2018

Susan Blaeser, (631) 390-0215, [asastds@acousticalsociety.org](mailto:asastds@acousticalsociety.org)

ANSI/ASA S3.13-1987 (R2012), Mechanical Coupler for Measurement of Bone Vibrators  
*Approved: 6/15/2012*  
Susan Blaeser, (631) 390-0215,  
asastds@acousticalsociety.org

ANSI/ASA S3.2-2009 (R2014), Method for Measuring the Intelligibility of Speech over Communication Systems  
*Approved: 6/2/2014*  
Susan Blaeser, (631) 390-0215,  
asastds@acousticalsociety.org

ANSI/ASA S3.20-2015, Bioacoustical Terminology  
*Approved: 10/22/2015*  
Susan Blaeser, (631) 390-0215,  
asastds@acousticalsociety.org

ANSI/ASA S3.21-2004 (R2019), Methods for Manual Pure-tone Threshold Audiometry  
*Approved: 4/12/2019*  
Susan Blaeser, (631) 390-0215,  
asastds@acousticalsociety.org

ANSI ASA S3.22-2014, Specification of Hearing Aid Characteristics  
*Approved: 11/10/2014*  
Susan Blaeser, (631) 390-0215,  
asastds@acousticalsociety.org

ANSI/ASA S3.25-2009 (R2014), Standard for an Occluded Ear Simulator  
*Approved: 9/11/2014*  
Susan Blaeser, (631) 390-0215,  
asastds@acousticalsociety.org

ANSI/ASA S3.35-2010 (R2015), Method of Measurement of Performance Characteristics of Hearing Aids Under Simulated Real-Ear Working Conditions  
*Approved: 5/21/2015*  
Susan Blaeser, (631) 390-0215,  
asastds@acousticalsociety.org

ANSI/ASA S3.36-2012 (R2018), Specification for a Manikin for Simulated in-situ Airborne Acoustic Measurements  
*Approved: 1/17/2018*  
Susan Blaeser, (631) 390-0215,  
asastds@acousticalsociety.org

ANSI/ASA S3.37-1987 (R2017), Preferred Earhook Nozzle Thread for Postauricular Hearing Aids  
*Approved: 7/12/2017*  
Susan Blaeser, (631) 390-0215,  
asastds@acousticalsociety.org

ANSI/ASA S3.39-1987 (R2012), Specifications for Instruments to Measure Aural Acoustic Impedance and Admittance (Aural Acoustic Immittance)  
*Approved: 6/15/2012*  
Susan Blaeser, (631) 390-0215,  
asastds@acousticalsociety.org

ANSI/ASA S3.4-2007 (R2017), Procedure for the Computation of Loudness of Steady Sounds  
*Approved: 7/13/2017*  
Susan Blaeser, (631) 390-0215,  
asastds@acousticalsociety.org

ANSI ASA S3.41-2015, Audible Emergency Evacuation (E2) and Evacuation Signals with Relocation Instructions (ESRI)  
*Approved: 7/14/2015*  
Susan Blaeser, (631) 390-0215,  
asastds@acousticalsociety.org

ANSI/ASA S3.42-1992/Part 1 (R2017), Testing Hearing Aids with a Broadband Noise Signal  
*Approved: 7/12/2017*  
Susan Blaeser, (631) 390-0215,  
asastds@acousticalsociety.org

ANSI/ASA S3.42-2012/Part 2/IEC 60118 -15:2012 (R2017), Testing Hearing Aids - Part 2: Methods for characterizing signal processing in hearing aids with a speech-like signal (a nationally adopted international standard)  
*Approved: 11/2/2017*  
Susan Blaeser, (631) 390-0215,  
asastds@acousticalsociety.org

ANSI/ASA S3.44-2016/Part 1/ISO 1999-2013 (MOD), Estimation of Noise-induced Hearing Loss - Part 1: Method for Calculating Expected Noise-induced Permanent Threshold Shift (a modified nationally adopted international standard)  
*Approved: 3/4/2016*  
Susan Blaeser, (631) 390-0215,  
asastds@acousticalsociety.org

ANSI/ASA S3.45-2009 (R2019), Procedures for Testing Basic Vestibular Function  
*Approved: 8/1/2019*  
Susan Blaeser, (631) 390-0215,  
asastds@acousticalsociety.org

ANSI/ASA S3.46-2013 (R2018), Methods of Measurement of Real-Ear Performance Characteristics of Hearing Aids  
*Approved: 10/11/2018*  
Susan Blaeser, (631) 390-0215,  
asastds@acousticalsociety.org

ANSI/ASA S3.47-2014 (R2019), Specification of Performance Measurement of Hearing Assistance Devices/Systems  
*Approved: 3/14/2019*  
Susan Blaeser, (631) 390-0215,  
asastds@acousticalsociety.org

ANSI/ASA S3.5-1997 (R2017), Methods for Calculation of the Speech Intelligibility Index  
*Approved: 7/12/2017*  
Susan Blaeser, (631) 390-0215,  
asastds@acousticalsociety.org

ANSI ASA S3.50-2013 (R2018), Method for Evaluation of the Intelligibility of Text-to-Speech Synthesis Systems  
*Approved: 6/13/2018*  
Susan Blaeser, (631) 390-0215,  
asastds@acousticalsociety.org

ANSI ASA S3.52-2016, Measurements of the Threshold of Hearing and Signal Detectability in a Sound Field  
*Approved: 1/6/2016*  
Susan Blaeser, (631) 390-0215,  
asastds@acousticalsociety.org

ANSI/ASA S3.55-2015/Part 3/IEC 60318-3:2015, Electroacoustics - Simulators of Human Head and Ear - Part 3: Acoustic Coupler for the Calibration of Supra-aural Earphones Used in Audiometry  
*Approved: 5/15/2015*  
Susan Blaeser, (631) 390-0215,  
asastds@acousticalsociety.org

ANSI/ASA S3.55-2014/Part 1/IEC 60318-1:2009 (R2019), Electroacoustics – Simulators of Human Head and Ear – Part 1: Ear Simulator for the Measurement of Supra-aural and Circumaural Earphones (a nationally adopted international standard)  
*Approved: 2/22/2019*  
Susan Blaeser, (631) 390-0215,  
asastds@acousticalsociety.org

ANSI/ASA S3.55-2014/Part 5/IEC 60318-5:2006 (MOD) (R2019), Electroacoustics – Simulators of Human Head and Ear – Part 5: 2 cm3 Coupler for the Measurement of Hearing Aids and Earphones Coupled to the Ear by Means of Ear Inserts (a modified nationally adopted international standard)  
*Approved: 8/15/2019*  
Susan Blaeser, (631) 390-0215,  
asastds@acousticalsociety.org

ANSI/ASA S3.6-2018, Specification for Audiometers  
*Approved: 9/20/2018*  
Susan Blaeser, (631) 390-0215,  
asastds@acousticalsociety.org

ANSI ASA S3.7-2016, Method for Measurement and Calibration of Earphones  
*Approved: 8/22/2016*  
Susan Blaeser, (631) 390-0215,  
asastds@acousticalsociety.org

ANSI/ASA S3.71-2019, Methods for Measuring the Effect of Head-worn Devices on Directional Sound Localization in the Horizontal Plane  
*Approved: 4/30/2019*  
Susan Blaeser, (631) 390-0215,  
asastds@acousticalsociety.org

ANSI/ASA S3/SC1.100-2014 / ANSI/ASA S12.100-2014, Methods to Define and Measure the Residual Sound in Protected Natural and Quiet Residential Areas  
Approved: 12/5/2014

Susan Blaeser, (631) 390-0215,  
asastds@acousticalsociety.org

ANSI ASA S3/SC1.6-2018, Procedure for Determining the Audiograms in Toothed Whales through Evoked Potential Methods  
Approved: 5/31/2018

Susan Blaeser, (631) 390-0215,  
asastds@acousticalsociety.org

## ASABE (AMERICAN SOCIETY OF AGRICULTURAL AND BIOLOGICAL ENGINEERS)

ANSI/ASABE AD10448-NOV2014 (R2018), Agricultural tractors Hydraulic pressure for implements  
Approved: 12/31/2018

Carla VanGilder, (269) 932-7015, vangilder@asabe.org

ANSI/ASABE AD11001-1:NOV16, Agricultural wheeled tractors - Three-point hitch couplers - Part 1: U-frame coupler  
Approved: 11/16/2016

Carla VanGilder, (269) 932-7015, vangilder@asabe.org

ANSI/ASABE AD11684-1995 APR2011 (R2016), Tractors, machinery for agricultural and forestry, powered lawn and garden equipment - Safety signs and hazard pictorials - General principles  
Approved: 1/26/2016

Carla VanGilder, (269) 932-7015, vangilder@asabe.org

ANSI/ASABE AD17225-4-FEB2018, Solid biofuels - Fuel specifications and classes - Part 4: Graded wood chips  
Approved: 2/14/2018

Carla VanGilder, (269) 932-7015, vangilder@asabe.org

ANSI/ASABE AD20966-2016, Automatic milking installations- Requirements and testing  
Approved: 3/23/2016

Carla VanGilder, (269) 932-7015, vangilder@asabe.org

ANSI/ASABE AD24347:2014 (R2018), Agricultural vehicles Mechanical connections between towed and towing vehicles Dimensions of ball-type coupling device (80 mm)  
Approved: 12/31/2018

Carla VanGilder, (269) 932-7015, vangilder@asabe.org

ANSI/ASABE AD26322-1:2008 NOV16, Tractors for Agriculture and Forestry - Safety - Part 1: Standard Tractors  
Approved: 11/22/2016

Carla VanGilder, (269) 932-7015, vangilder@asabe.org

ANSI/ASABE AD26322-2-JUN2017, Tractors for agriculture and forestry - Safety - Part 2: Narrow-track and small tractors  
Approved: 6/8/2017

Carla VanGilder, (269) 932-7015, vangilder@asabe.org

ANSI/ASABE AD3600:2016, Tractors, machinery for agriculture and forestry, powered lawn and garden equipment - Operator's manuals - Content and format  
Approved: 5/2/2016

Carla VanGilder, (269) 932-7015, vangilder@asabe.org

ANSI/ASABE AD3918-2007 JAN2011 (R2016), Milking machine installations - Vocabulary  
Approved: 3/2/2016

Carla VanGilder, (269) 932-7015, vangilder@asabe.org

ANSI/ASABE AD4254-11-JAN2012 (R2017), Agricultural machinery - Safety - Part 11: Pick-up balers  
Approved: 1/30/2017

Carla VanGilder, (269) 932-7015, vangilder@asabe.org

ANSI/ASABE AD4254-12-JUL2016, Agricultural machinery - Safety - Part 12: Rotary disc and drum mowers and flail mowers  
Approved: 7/13/2016

Carla VanGilder, (269) 932-7015, vangilder@asabe.org

ANSI/ASABE AD4254-13-2013 (R2017), Agricultural machinery - Safety - Part 13: Large rotary mowers  
Approved: 12/21/2017

Carla VanGilder, (269) 932-7015, vangilder@asabe.org

ANSI/ASABE AD4254-6-2013 (R2017), Agricultural machinery - Safety - Part 6: Sprayers and liquid fertilizer distributors  
Approved: 12/11/2017

Carla VanGilder, (269) 932-7015, vangilder@asabe.org

ANSI/ASABE AD500-2:OCT2016, Agricultural tractors - Rear-mounted power take-off types 1, 2, 3 and 4 - Part 2: Narrow-track tractors, dimensions for master shield and clearance zone  
Approved: 10/11/2016

Carla VanGilder, (269) 932-7015, vangilder@asabe.org

ANSI/ASABE AD5673-1-2017, Agricultural tractors and machinery - Power take-off drive shafts and power-input connection - Part 1: General manufacturing and safety requirements  
Approved: 9/12/2017

Carla VanGilder, (269) 932-7015, vangilder@asabe.org

ANSI/ASABE AD5673-2-SEPT2014 (R2019), Agricultural tractors and machinery Power take-off drive shafts and power-input connection Part 2: Specification for use of PTO drive shafts, and position and clearance of PTO drive line and PIC for various attachments  
Approved: 12/31/2018

Carla VanGilder, (269) 932-7015, vangilder@asabe.org

ANSI/ASABE AD5674-2015, Tractors and machinery for agricultural and forestry - Guards for power take-off (PTO) drive shafts - Strength and wear tests and acceptance criteria  
Approved: 9/29/2015

Carla VanGilder, (269) 932-7015, vangilder@asabe.org

ANSI/ASABE AD5675-2016, Agricultural tractors and machinery - General purpose quick-action hydraulic couplers  
Approved: 6/23/2016

Carla VanGilder, (269) 932-7015, vangilder@asabe.org

ANSI/ASABE AD5707-2016, Milking Machine Installations - Construction And Performance  
Approved: 3/23/2016

Carla VanGilder, (269) 932-7015, vangilder@asabe.org

ANSI/ASABE AD6489-3-2004 JUL2017, Agricultural vehicles - Mechanical connections between towed and towing vehicles - Part 3: Tractor drawbar  
Approved: 7/13/2017

Carla VanGilder, (269) 932-7015, vangilder@asabe.org

ANSI/ASABE AD6690-2007 JAN2011 (R2015), Milking machine installations - Mechanical tests  
Approved: 12/30/2015

Carla VanGilder, (269) 932-7015, vangilder@asabe.org

ANSI/ASABE AD730:2009 W/Amd. 1-2015, Agricultural wheeled tractors - Rear-mounted three-point linkage - Categories 1N, 1, 2N, 2, 3N, 3, 4N and 4  
Approved: 4/6/2015

Carla VanGilder, (269) 932-7015, vangilder@asabe.org

ANSI/ASABE AD8759-1-2019, Agricultural tractors — Front-mounted equipment — Part 1: Power take-off: Safety requirements and clearance zone around PTO  
*Approved: 7/29/2019*

*Carla VanGilder, (269) 932-7015, vangilder@asabe.org*

ANSI/ASABE AD8759-1:2013, Agricultural wheel tractors - Front-mounted equipment - Part 1: Power take-off and three-point linkage  
*Approved: 2/19/2013*

*Carla VanGilder, (269) 932-7015, vangilder@asabe.org*

ANSI/ASABE AD8759-2- OCT2016, Agricultural wheeled tractors - Front-mounted equipment - Part 2: Stationary equipment connection  
*Approved: 10/11/2016*

*Carla VanGilder, (269) 932-7015, vangilder@asabe.org*

ANSI/ASABE AD8759-3-2019, Agricultural tractors — Front-mounted equipment — Part 3: Power take-off: General specifications and location  
*Approved: 8/8/2019*

*Carla VanGilder, (269) 932-7015, vangilder@asabe.org*

ANSI/ASABE AD8759-4-2019, Agricultural tractors — Front-mounted equipment —Part 4: Three-point linkage  
*Approved: 8/8/2019*

*Carla VanGilder, (269) 932-7015, vangilder@asabe.org*

ANSI/ASABE EP585-2015, Animal Mortality Composting  
*Approved: 12/11/2015*

*Carla VanGilder, (269) 932-7015, vangilder@asabe.org*

ANSI/ASABE S276.8-2016, Slow-Moving Vehicle Identification Emblem (SMV Emblem)  
*Approved: 4/13/2016*

*Carla VanGilder, (269) 932-7015, vangilder@asabe.org*

ANSI/ASABE S516-2014 (R2018), Terminology for Forest Operations and Equipment  
*Approved: 12/31/2018*

*Carla VanGilder, (269) 932-7015, vangilder@asabe.org*

ANSI/ASABE S588.1-NOV16, Uniform Terminology for Air Quality  
*Approved: 11/22/2016*

*Carla VanGilder, (269) 932-7015, vangilder@asabe.org*

ANSI/ASABE S592.1-2016, Best Management Practices for Boom Spraying  
*Approved: 8/31/2016*

*Carla VanGilder, (269) 932-7015, vangilder@asabe.org*

ANSI/ASABE S593.1-JAN2011 (R2015), Terminology & Definitions for Biomass Production, Harvesting and Collection, Storage, Processing, Conversion and Utilization  
*Approved: 12/21/2015*

*Carla VanGilder, (269) 932-7015, vangilder@asabe.org*

ANSI/ASABE S596-2006 (R2015), Recycling Plastic Containers from Pesticides and Pesticide-Related Products  
*Approved: 12/30/2015*

*Carla VanGilder, (269) 932-7015, vangilder@asabe.org*

ANSI/ASABE S598 JAN2010 (R2014), Procedure for Sampling, Measuring and Reporting Commingled Crop in Combine Harvest of a Subsequent Crop  
*Approved: 1/9/2015*

*Carla VanGilder, (269) 932-7015, vangilder@asabe.org*

ANSI/ASABE S600-2011 (R2016), Manually Handled Collapsible Reusable Plastic Containers for Handling of Fruits and Vegetables  
*Approved: 1/22/2016*

*Carla VanGilder, (269) 932-7015, vangilder@asabe.org*

ANSI/ASABE S602.3-OCT2018 , General Safety Standard for Agricultural Tractors in Scraper Application  
*Approved: 10/31/2018*

*Carla VanGilder, (269) 932-7015, vangilder@asabe.org*

ANSI/ASABE S604.2-OCT2018, Safety for Power Take-off (PTO), PTO Drive Shafts, and Power Input Connection (PIC) for Agricultural Field Equipment  
*Approved: 10/12/2018*

*Carla VanGilder, (269) 932-7015, vangilder@asabe.org*

ANSI/ASABE S607 OCT2007 (R2014), Ventilating Manure Storages to Reduce Entry Risk  
*Approved: 1/9/2015*

*Carla VanGilder, (269) 932-7015, vangilder@asabe.org*

ANSI/ASABE S608-2008 (R2017), Headlamps for Agricultural Equipment  
*Approved: 12/29/2017*

*Carla VanGilder, (269) 932-7015, vangilder@asabe.org*

ANSI/ASABE S612 JUL2009 (R2015), Performing On-farm Energy Audits  
*Approved: 12/3/2015*

*Carla VanGilder, (269) 932-7015, vangilder@asabe.org*

ANSI/ASABE S613-1-FEB2009 (R2018), Tractors and Self-Propelled Machinery for Agriculture Air Quality Systems for Cabs Terminology and Overview  
*Approved: 12/7/2018*

*Carla VanGilder, (269) 932-7015, vangilder@asabe.org*

ANSI/ASABE S613-2.1-JUN-2013, Tractors and self-propelled machinery for agriculture - Air quality systems for cabs - Part 2: Cab and HVAC design  
*Approved: 6/26/2013*

*Carla VanGilder, (269) 932-7015, vangilder@asabe.org*

ANSI/ASABE S613-3.1-JUN2018, Tractors and self-propelled machinery for agriculture - Air quality systems for cabs - Part 3: Filters for environmental cab HVAC systems  
*Approved: 6/8/2018*

*Carla VanGilder, (269) 932-7015, vangilder@asabe.org*

ANSI/ASABE S613-4-AUG2017, Tractors and self-propelled machinery for agriculture - Air quality systems for cabs - Part 4: Performance test of a cab  
*Approved: 8/30/2017*

*Carla VanGilder, (269) 932-7015, vangilder@asabe.org*

ANSI/ASABE S618 DEC2010 (R2016), Post Frame Building System Nomenclature  
*Approved: 1/7/2016*

*Carla VanGilder, (269) 932-7015, vangilder@asabe.org*

ANSI/ASABE S619.1 MONYEAR-2019, Safety for Tractor-Mounted, Boom-Type Post Hole Diggers  
*Approved: 8/22/2019*

*Carla VanGilder, (269) 932-7015, vangilder@asabe.org*

ANSI/ASABE S620-MAR2017, Safety for Anhydrous Ammonia Application Equipment  
*Approved: 3/16/2017*

*Carla VanGilder, (269) 932-7015, vangilder@asabe.org*

ANSI/ASABE S623.1-JAN2017, Determining Landscape Plant Water Demands  
*Approved: 1/12/2017*

*Carla VanGilder, (269) 932-7015, vangilder@asabe.org*

ANSI/ASABE S624-AUG2018, Grain Bin Access Design Safety

Approved: 8/31/2018

Carla VanGilder, (269) 932-7015, [vangilder@asabe.org](mailto:vangilder@asabe.org)

ANSI/ASABE S625.1-JUL2018, Drawbar Pin Dimensions and Requirements for Towing Machine with Clevis

Approved: 7/27/2018

Carla VanGilder, (269) 932-7015, [vangilder@asabe.org](mailto:vangilder@asabe.org)

ANSI/ASABE S626-SEPT2016, Landscape Irrigation System Uniformity and Application Rate Testing

Approved: 9/26/2016

Carla VanGilder, (269) 932-7015, [vangilder@asabe.org](mailto:vangilder@asabe.org)

ANSI/ASABE S629-2016, Framework to Evaluate the Sustainability of Agricultural Production Systems

Approved: 6/10/2016

Carla VanGilder, (269) 932-7015, [vangilder@asabe.org](mailto:vangilder@asabe.org)

ANSI/ASABE S632-1-JUN2018, Precision Agriculture Irrigation Language: Core Concepts, Processes, and Objects

Approved: 6/29/2018

Carla VanGilder, (269) 932-7015, [vangilder@asabe.org](mailto:vangilder@asabe.org)

ANSI/ASABE S632-3-JUN2018, Precision Agriculture Irrigation Language: Core Concepts, Processes, and Objects

Approved: 6/29/2018

Carla VanGilder, (269) 932-7015, [vangilder@asabe.org](mailto:vangilder@asabe.org)

ANSI/ASABE S638-MAY19, Pintle Hitch and Ring for Over the Road Towed Implements

Approved: 5/21/2019

Carla VanGilder, (269) 932-7015, [vangilder@asabe.org](mailto:vangilder@asabe.org)

ANSI/ASABE S639.2-FEB2019, Safety Standard for Large Row-Crop Flail Mowers

Approved: 2/5/2019

Carla VanGilder, (269) 932-7015, [vangilder@asabe.org](mailto:vangilder@asabe.org)

ANSI/ASABE S640 JUL2017, Quantities and Units of Electromagnetic Radiation for Plants (Photosynthetic Organisms)

Approved: 7/11/2017

Carla VanGilder, (269) 932-7015, [vangilder@asabe.org](mailto:vangilder@asabe.org)

ANSI/ASABE S641-MAY2018, Droplet Size Classification of Aerial Application Nozzles

Approved: 5/21/2018

Carla VanGilder, (269) 932-7015, [vangilder@asabe.org](mailto:vangilder@asabe.org)

ANSI/ASABE S642-SEPT2018, Recommended Methods for Measurement and Testing of LED Products for Plant Growth and Development

Approved: 9/21/2018

Carla VanGilder, (269) 932-7015, [vangilder@asabe.org](mailto:vangilder@asabe.org)

ANSI/ASABE S647-OCT2018, Seed Cotton Module Identification System

Approved: 10/22/2018

Carla VanGilder, (269) 932-7015, [vangilder@asabe.org](mailto:vangilder@asabe.org)

ANSI/ASABE/ISO 12003-1-SEP17, Agricultural and forestry tractors - Roll-over protective structures on narrow-track wheeled tractors - Part 1: Front-mounted ROPS

Approved: 9/25/2017

Carla VanGilder, (269) 932-7015, [vangilder@asabe.org](mailto:vangilder@asabe.org)

ANSI/ASABE/ISO 12003-2-2008 SEP2107, Agricultural and forestry tractors - Roll-over protective structures on narrow-track wheeled tractors - Part 2: Rear-mounted ROPS

Approved: 9/29/2017

Carla VanGilder, (269) 932-7015, [vangilder@asabe.org](mailto:vangilder@asabe.org)

ANSI/ASABE/ISO 12140-JUNE2014 (R2018), Agricultural Machinery - Agricultural trailers and trailed equipment - Drawbar jacks

Approved: 12/31/2018

Carla VanGilder, (269) 932-7015, [vangilder@asabe.org](mailto:vangilder@asabe.org)

ANSI/ASABE/ISO 12188-2-2015, Tractors and machinery for agriculture and forestry - Test procedures for positioning and guidance systems in agriculture - Part 2: Testing of satellite-based auto-guidance systems during straight and level travel

Approved: 10/26/2015

Carla VanGilder, (269) 932-7015, [vangilder@asabe.org](mailto:vangilder@asabe.org)

ANSI/ASABE/ISO 14269-1-2006 (R2017), Tractors and self-propelled machines for agriculture and forestry - Operator enclosure environment - Part 1: Vocabulary

Approved: 1/23/2017

Carla VanGilder, (269) 932-7015, [vangilder@asabe.org](mailto:vangilder@asabe.org)

ANSI/ASABE/ISO 14269-2-2006 (R2017), Tractors and self-propelled machines for agriculture and forestry - Operator enclosure environment - Part 2: Heating, ventilation and air-conditioning test method and performance

Approved: 1/23/2017

Carla VanGilder, (269) 932-7015, [vangilder@asabe.org](mailto:vangilder@asabe.org)

ANSI/ASABE/ISO 14269-3-2006 (R2017), Tractors and self-propelled machines for agriculture and forestry - Operator enclosure environment - Part 3: Determination of effect of solar heating

Approved: 1/23/2017

Carla VanGilder, (269) 932-7015, [vangilder@asabe.org](mailto:vangilder@asabe.org)

ANSI/ASABE/ISO 14269-4-2006 (R2017), Tractors and self-propelled machines for agriculture and forestry - Operator enclosure environment - Part 4: Air filter element test method

Approved: 1/23/2017

Carla VanGilder, (269) 932-7015, [vangilder@asabe.org](mailto:vangilder@asabe.org)

ANSI/ASABE/ISO 14269-5-2006 (R2017), Tractors and self-propelled machines for agriculture and forestry - Operator enclosure environment - Part 5: Pressurization system test method

Approved: 1/23/2017

Carla VanGilder, (269) 932-7015, [vangilder@asabe.org](mailto:vangilder@asabe.org)

ANSI/ASABE/ISO 15077:2008 (R2018), Tractors and self-propelled machinery for agriculture - Operator Controls - Actuating forces, displacement, location, and method of operation

Approved: 12/31/2018

Carla VanGilder, (269) 932-7015, [vangilder@asabe.org](mailto:vangilder@asabe.org)

ANSI/ASABE/ISO 17101-1:2012 JUN2016, Agricultural machinery - Thrown-object test and acceptance criteria - Part 1: Rotary mowers

Approved: 6/23/2016

Carla VanGilder, (269) 932-7015, [vangilder@asabe.org](mailto:vangilder@asabe.org)

ANSI/ASABE/ISO 17101-2:2012 JUN2016, Agricultural machinery - Thrown-object test and acceptance criteria - Part 2: Flail mowers

Approved: 6/23/2016

Carla VanGilder, (269) 932-7015, [vangilder@asabe.org](mailto:vangilder@asabe.org)

ANSI/ASABE/ISO 21244-2008 JAN2011 (R2016), Agricultural equipment - Mechanical connections between towed and towing vehicles - Implement hitch rings and attachment to tractor drawbars

Approved: 1/26/2016

Carla VanGilder, (269) 932-7015, [vangilder@asabe.org](mailto:vangilder@asabe.org)

ANSI/ASABE/ISO 23205:2016, Agricultural tractors - Instructional seat

Approved: 2/25/2016

Carla VanGilder, (269) 932-7015, [vangilder@asabe.org](mailto:vangilder@asabe.org)

ANSI/ASABE/ISO 26322-2-2012, Tractors for agriculture and forestry - Safety - Part 2: Narrow-track and small tractors

Approved: 6/7/2012

Carla VanGilder, (269) 932-7015, [vangilder@asabe.org](mailto:vangilder@asabe.org)

ANSI/ASABE/ISO 27850-2016 , Tractors for agriculture and forestry - Falling object protective structures - Test procedures and performance requirements

Approved: 5/3/2016

Carla VanGilder, (269) 932-7015, [vangilder@asabe.org](mailto:vangilder@asabe.org)

ANSI/ASABE/ISO 3463-SEP2017, Tractors for agriculture and forestry - Roll-over protective structures (ROPS) - Dynamic test method and acceptance conditions

Approved: 9/21/2017

Carla VanGilder, (269) 932-7015, [vangilder@asabe.org](mailto:vangilder@asabe.org)

ANSI/ASABE/ISO 3767-1:2017 APR17, Tractors, machinery for agriculture and forestry, powered lawn and garden equipment - Symbols for operator controls and other displays - Part 1: Common symbols

Approved: 4/3/2017

Carla VanGilder, (269) 932-7015, [vangilder@asabe.org](mailto:vangilder@asabe.org)

ANSI/ASABE/ISO 3767-2:APR17, Tractors, machinery for agriculture and forestry, powered lawn and garden equipment - Symbols for operator controls and other displays - Part 2: Symbols for agricultural tractors and machinery

Approved: 4/3/2017

Carla VanGilder, (269) 932-7015, [vangilder@asabe.org](mailto:vangilder@asabe.org)

ANSI/ASABE/ISO 3776-1-2006 (R2016), Tractors and machinery for agriculture - Seat belts - Part 1: Anchorage location requirements

Approved: 12/1/2016

Carla VanGilder, (269) 932-7015, [vangilder@asabe.org](mailto:vangilder@asabe.org)

ANSI/ASABE/ISO 3776-2-2016 , Tractors and machinery for agriculture - Seat belts - Part 2: Anchorage strength requirements

Approved: 2/25/2016

Carla VanGilder, (269) 932-7015, [vangilder@asabe.org](mailto:vangilder@asabe.org)

ANSI/ASABE/ISO 3776-3:2015, Tractors and machinery for agriculture - Seat belts - Part 3: Requirements for assemblies

Approved: 10/21/2015

Carla VanGilder, (269) 932-7015, [vangilder@asabe.org](mailto:vangilder@asabe.org)

ANSI/ASABE/ISO 4252-MAY2012 (R2017), Agricultural tractors - Operator's workplace, access and exit - Dimensions

Approved: 1/30/2017

Carla VanGilder, (269) 932-7015, [vangilder@asabe.org](mailto:vangilder@asabe.org)

ANSI/ASABE/ISO 500-3-2015 (R2019), Agricultural tractors — Rear-mounted power take-off types 1, 2, 3 and 4 — Part 3: Main PTO dimensions and spline dimensions, location of PTO

Approved: 5/21/2019

Carla VanGilder, (269) 932-7015, [vangilder@asabe.org](mailto:vangilder@asabe.org)

ANSI/ASABE/ISO 5007:2003 MAY2006 (R2016), Agricultural wheeled tractors - Operator's seat - Laboratory measurement of transmitted vibration

Approved: 1/26/2016

Carla VanGilder, (269) 932-7015, [vangilder@asabe.org](mailto:vangilder@asabe.org)

ANSI/ASABE/ISO 5008-2002 W/Cor. 1 MAY2006 (R2015), Agricultural wheeled tractors and field machinery - Measurement of whole-body vibration of the operator

Approved: 12/22/2015

Carla VanGilder, (269) 932-7015, [vangilder@asabe.org](mailto:vangilder@asabe.org)

ANSI/ASABE/ISO 5700--2013 SEP2017, Tractors for agriculture and forestry - Roll-over protective structures - Static test method and acceptance conditions

Approved: 9/29/2017

Carla VanGilder, (269) 932-7015, [vangilder@asabe.org](mailto:vangilder@asabe.org)

ANSI/ASABE/ISO AD500-1:2015 (R2019), Agricultural tractors — Rear-mounted power take-off types 1, 2, 3 and 4 — Part 1: General specifications, safety requirements, dimensions for master shield and clearance zone

Approved: 5/21/2019

Carla VanGilder, (269) 932-7015, [vangilder@asabe.org](mailto:vangilder@asabe.org)

ANSI/ASABE/ISO TS 28924-2015, Agricultural machinery - Guards for moving parts of power transmission - Guard opening without tool

Approved: 9/10/2015

Carla VanGilder, (269) 932-7015, [vangilder@asabe.org](mailto:vangilder@asabe.org)

ANSI/ASAE 5687-OCT2018, Equipment for harvesting Combine harvesters Determination and designation of grain tank capacity and unloading device performance

Approved: 10/31/2018

Carla VanGilder, (269) 932-7015, [vangilder@asabe.org](mailto:vangilder@asabe.org)

ANSI/ASAE D241.4-FEB93 (R2017), Density, Specific Gravity, and Mass-Moisture Relationships of Grain for Storage

Approved: 11/28/2017

Carla VanGilder, (269) 932-7015, [vangilder@asabe.org](mailto:vangilder@asabe.org)

ANSI/ASAE EP282.2-1993 (R2018), Design Values for Emergency Ventilation and Care of Livestock and Poultry

Approved: 11/29/2018

Carla VanGilder, (269) 932-7015, [vangilder@asabe.org](mailto:vangilder@asabe.org)

ANSI/ASAE EP302.4-AUG93 (R2017), Design and Construction of Surface Drainage Systems on Agricultural Lands in Humid Areas

Approved: 11/30/2017

Carla VanGilder, (269) 932-7015, [vangilder@asabe.org](mailto:vangilder@asabe.org)

ANSI/ASAE EP364.4-FEB-2013 (R2018), Installation and Maintenance of Farm Standby Electric Power

Approved: 3/5/2018

Carla VanGilder, (269) 932-7015, [vangilder@asabe.org](mailto:vangilder@asabe.org)

ANSI/ASAE EP378.4 JUN2010 (R2014), Floor and Suspended Loads on Agricultural Structures Due to Use

Approved: 1/12/2015

Carla VanGilder, (269) 932-7015, [vangilder@asabe.org](mailto:vangilder@asabe.org)

ANSI/ASAE EP389.2 JUN1993 (R2015), Auger Flighting Design Considerations

Approved: 1/28/2015

Carla VanGilder, (269) 932-7015, [vangilder@asabe.org](mailto:vangilder@asabe.org)

ANSI/ASAE EP400.3-2007 (R2017), Designing and Constructing Irrigation Wells

Approved: 11/28/2017

Carla VanGilder, (269) 932-7015, [vangilder@asabe.org](mailto:vangilder@asabe.org)

ANSI/ASAE EP403.4-NOV-2011 (R2015), Design of Anaerobic Lagoons for Animal Waste

Approved: 12/11/2015

Carla VanGilder, (269) 932-7015, [vangilder@asabe.org](mailto:vangilder@asabe.org)

ANSI/ASAE EP411.5-2012 (R2016), Guidelines for Measuring and Reporting Environmental Parameters for Plant Experiments in Growth Chambers

Approved: 12/2/2016

Carla VanGilder, (269) 932-7015, [vangilder@asabe.org](mailto:vangilder@asabe.org)

ANSI/ASAE EP446.3-2008 (R2017), Loads Exerted by Irish Potatoes in Shallow Bulk Storage Structures  
*Approved: 11/28/2017*  
Carla VanGilder, (269) 932-7015, [vangilder@asabe.org](mailto:vangilder@asabe.org)

ANSI/ASAE EP484.3-DEC2017, Diaphragm Design of Metal-Clad, Wood-Frame Rectangular Buildings  
*Approved: 12/21/2017*  
Carla VanGilder, (269) 932-7015, [vangilder@asabe.org](mailto:vangilder@asabe.org)

ANSI/ASAE EP486.3-2017, Shallow Post and Pier Foundation Design  
*Approved: 9/28/2017*  
Carla VanGilder, (269) 932-7015, [vangilder@asabe.org](mailto:vangilder@asabe.org)

ANSI/ASAE EP545 MAR1995 (R2015), Loads Exerted by Free-Flowing Grain on Shallow Storage Structures  
*Approved: 1/26/2015*  
Carla VanGilder, (269) 932-7015, [vangilder@asabe.org](mailto:vangilder@asabe.org)

ANSI/ASAE EP559.1 W/Corr. 1 AUG2010 (R2014), Design Requirements and Bending Properties for Mechanically-Laminated Wood Assemblies  
*Approved: 1/12/2015*  
Carla VanGilder, (269) 932-7015, [vangilder@asabe.org](mailto:vangilder@asabe.org)

ANSI/ASAE EP576.2-2012 (R2017), Lighting And Marking Of Animal-Drawn Equipment  
*Approved: 12/21/2017*  
Carla VanGilder, (269) 932-7015, [vangilder@asabe.org](mailto:vangilder@asabe.org)

ANSI/ASAE S229.6-DEC1976 (R2017), Baling Wire for Automatic Balers  
*Approved: 12/21/2017*  
Carla VanGilder, (269) 932-7015, [vangilder@asabe.org](mailto:vangilder@asabe.org)

ANSI/ASAE S261.7-OCT96 (R2015), Design and Installation of Nonreinforced Concrete Irrigation Pipe Systems  
*Approved: 12/3/2015*  
Carla VanGilder, (269) 932-7015, [vangilder@asabe.org](mailto:vangilder@asabe.org)

ANSI/ASAE S277.2-1992 (R2017), Mounting Brackets and Socket for Warning Lamp and Slow-Moving Vehicle (SMV) Identification Emblem  
*Approved: 12/22/2017*  
Carla VanGilder, (269) 932-7015, [vangilder@asabe.org](mailto:vangilder@asabe.org)

ANSI/ASAE S279.17-2013 (R2017), Lighting and Marking of Agricultural Equipment on Highways  
*Approved: 12/21/2017*  
Carla VanGilder, (269) 932-7015, [vangilder@asabe.org](mailto:vangilder@asabe.org)

ANSI/ASAE S289.2 FEB1998 (R2018), Concrete Slip-Form Canal Linings  
*Approved: 11/29/2018*  
Carla VanGilder, (269) 932-7015, [vangilder@asabe.org](mailto:vangilder@asabe.org)

ANSI/ASAE S296.5 DEC2003 (R2018), General Terminology for Traction of Agricultural Traction and Transport Devices and Vehicles  
*Approved: 12/17/2018*  
Carla VanGilder, (269) 932-7015, [vangilder@asabe.org](mailto:vangilder@asabe.org)

ANSI/ASAE S303.4-2007 (R2017), Test Procedure for Solids-Mixing Equipment for Animal Feeds  
*Approved: 12/11/2017*  
Carla VanGilder, (269) 932-7015, [vangilder@asabe.org](mailto:vangilder@asabe.org)

ANSI/ASAE S315.5-AUG2018, Agricultural Baling Twine for Automatic Balers  
*Approved: 8/3/2018*  
Carla VanGilder, (269) 932-7015, [vangilder@asabe.org](mailto:vangilder@asabe.org)

ANSI/ASAE S318.18-JUN2017, Safety for Agricultural Field Equipment  
*Approved: 6/28/2017*  
Carla VanGilder, (269) 932-7015, [vangilder@asabe.org](mailto:vangilder@asabe.org)

ANSI/ASAE S319.4-2008 (R2017), Method of Determining and Expressing Fineness of Feed Materials by Sieving  
*Approved: 12/11/2017*  
Carla VanGilder, (269) 932-7015, [vangilder@asabe.org](mailto:vangilder@asabe.org)

ANSI/ASAE S331.6-2015, Implement Power Take-Off Driveline Specifications  
*Approved: 8/26/2015*  
Carla VanGilder, (269) 932-7015, [vangilder@asabe.org](mailto:vangilder@asabe.org)

ANSI/ASAE S338.5 MAY2006 (R2016), Field Equipment for Agriculture-Safety Chain for Towed Equipment  
*Approved: 1/22/2016*  
Carla VanGilder, (269) 932-7015, [vangilder@asabe.org](mailto:vangilder@asabe.org)

ANSI/ASAE S343.4-2015, Terminology for Combines and Grain Harvesting  
*Approved: 6/4/2015*  
Carla VanGilder, (269) 932-7015, [vangilder@asabe.org](mailto:vangilder@asabe.org)

ANSI/ASAE S351-1982 (R2017), Hand Signals for Use in Agriculture  
*Approved: 1/23/2017*  
Carla VanGilder, (269) 932-7015, [vangilder@asabe.org](mailto:vangilder@asabe.org)

ANSI/ASAE S354.7-SEP2018, Safety for Farmstead Equipment  
*Approved: 9/6/2018*  
Carla VanGilder, (269) 932-7015, [vangilder@asabe.org](mailto:vangilder@asabe.org)

ANSI/ASAE S355.5 MONYEAR-2015, Safety Practices for Agricultural Front-End Loaders  
*Approved: 9/25/2015*  
Carla VanGilder, (269) 932-7015, [vangilder@asabe.org](mailto:vangilder@asabe.org)

ANSI/ASAE S358.3 MAY2012 (R2017), Moisture Measurement - Forages  
*Approved: 1/3/2017*  
Carla VanGilder, (269) 932-7015, [vangilder@asabe.org](mailto:vangilder@asabe.org)

ANSI/ASAE S362.2 JAN1993 (R2015), Wiring and Equipment for Electrically Driven or Controlled Irrigation Machines  
*Approved: 1/9/2015*  
Carla VanGilder, (269) 932-7015, [vangilder@asabe.org](mailto:vangilder@asabe.org)

ANSI/ASAE S365.9-2011 (R2017), Braking System Test Procedures and Braking Performance Criteria for Agricultural Field Equipment  
*Approved: 1/23/2017*  
Carla VanGilder, (269) 932-7015, [vangilder@asabe.org](mailto:vangilder@asabe.org)

ANSI/ASAE S375.2-1996 (R2018), Capacity Ratings and Unloading Dimensions for Cotton Harvester Baskets  
*Approved: 12/17/2018*  
Carla VanGilder, (269) 932-7015, [vangilder@asabe.org](mailto:vangilder@asabe.org)

ANSI/ASAE S376.3-2016, Design, Installation and Performance of Underground, Thermoplastic Irrigation Pipelines  
*Approved: 2/19/2016*  
Carla VanGilder, (269) 932-7015, [vangilder@asabe.org](mailto:vangilder@asabe.org)

ANSI/ASAE S377-1990 (R2015), Application of Remote Linear Control Devices to Lawn and Garden Ride-on Tractor Attachments and Implements  
*Approved: 5/28/2015*  
Carla VanGilder, (269) 932-7015, [vangilder@asabe.org](mailto:vangilder@asabe.org)

ANSI/ASAE S390.6 (ISO 12934:2013)-DEC16, Tractors and machinery for agriculture and forestry - Basic types - Vocabulary  
Approved: 12/1/2016  
Carla VanGilder, (269) 932-7015, [vangilder@asabe.org](mailto:vangilder@asabe.org)

ANSI/ASAE S392.2 APR2005 (R2015), Cotton Module Builder and Transporter Standard  
Approved: 1/9/2015  
Carla VanGilder, (269) 932-7015, [vangilder@asabe.org](mailto:vangilder@asabe.org)

ANSI/ASAE S396.-JUN2016, Combine Capacity and Performance Test Procedure  
Approved: 6/30/2016  
Carla VanGilder, (269) 932-7015, [vangilder@asabe.org](mailto:vangilder@asabe.org)

ANSI/ASAE S397.4 NOV2013 (R2018), Electrical Service and Equipment for Irrigation  
Approved: 12/31/2018  
Carla VanGilder, (269) 932-7015, [vangilder@asabe.org](mailto:vangilder@asabe.org)

ANSI/ASAE S401.2-AUG93 (R2017), Guidelines for Use of Thermal Insulation in Agricultural Buildings  
Approved: 11/28/2017  
Carla VanGilder, (269) 932-7015, [vangilder@asabe.org](mailto:vangilder@asabe.org)

ANSI/ASAE S418.1 OCT2010 (R2014), Dimensions for Cylindrical Hydraulic Couplers for Lawn and Garden Tractors  
Approved: 1/12/2015  
Carla VanGilder, (269) 932-7015, [vangilder@asabe.org](mailto:vangilder@asabe.org)

ANSI/ASAE S422.1-2015, Mapping Symbols and Nomenclature for Erosion and Sediment Control Plans for Land Disturbing Activities  
Approved: 12/7/2015  
Carla VanGilder, (269) 932-7015, [vangilder@asabe.org](mailto:vangilder@asabe.org)

ANSI/ASAE S424.1-SEP92 (R2017), Method of Determining and Expressing Particle Size of Chopped Forage Materials by Screening  
Approved: 1/30/2017  
Carla VanGilder, (269) 932-7015, [vangilder@asabe.org](mailto:vangilder@asabe.org)

ANSI/ASAE S433.1 JAN2019, Loads Exerted by Free-Flowing Grain on Bins  
Approved: 1/11/2019  
Carla VanGilder, (269) 932-7015, [vangilder@asabe.org](mailto:vangilder@asabe.org)

ANSI/ASAE S436.1-1997 (R2016), Test Procedure for Determining the Uniformity of Water Distribution of Center Pivot and Lateral Move Irrigation Machines Equipment with Spray or Sprinkler Nozzles  
Approved: 12/2/2016  
Carla VanGilder, (269) 932-7015, [vangilder@asabe.org](mailto:vangilder@asabe.org)

ANSI/ASAE S448.2-2014 (R2018), Thin-Layer Drying of Agricultural Crops  
Approved: 1/24/2018  
Carla VanGilder, (269) 932-7015, [vangilder@asabe.org](mailto:vangilder@asabe.org)

ANSI/ASAE S459-FEB93 (R2017), Shear and Three-Point Bending Test of Animal Bone  
Approved: 1/3/2017  
Carla VanGilder, (269) 932-7015, [vangilder@asabe.org](mailto:vangilder@asabe.org)

ANSI/ASAE S472-MAR 88 (R2017), Terminology for Forage Harvesters and Forage Harvesting  
Approved: 1/30/2017  
Carla VanGilder, (269) 932-7015, [vangilder@asabe.org](mailto:vangilder@asabe.org)

ANSI/ASAE S478.1-2012 (R2016), Roll-Over Protective Structures (ROPS) for Compact Utility Tractors  
Approved: 12/27/2016  
Carla VanGilder, (269) 932-7015, [vangilder@asabe.org](mailto:vangilder@asabe.org)

ANSI/ASAE S483.2 AUG2011 (R2016), Rotary Mower Blade Ductility Test  
Approved: 3/9/2016  
Carla VanGilder, (269) 932-7015, [vangilder@asabe.org](mailto:vangilder@asabe.org)

ANSI/ASAE S515-JAN94 (R2017), Pallet Load Transfer System for Vegetable Harvesters, Shuttle Vehicles, and Road Trucks  
Approved: 12/21/2017  
Carla VanGilder, (269) 932-7015, [vangilder@asabe.org](mailto:vangilder@asabe.org)

ANSI/ASAE S521-FEB93 (R2016), Method of Determining Peanut Blanchability  
Approved: 12/2/2016  
Carla VanGilder, (269) 932-7015, [vangilder@asabe.org](mailto:vangilder@asabe.org)

ANSI/ASAE S572.2-JUL2018, Spray Nozzle Classification by Droplet Spectra  
Approved: 7/18/2018  
Carla VanGilder, (269) 932-7015, [vangilder@asabe.org](mailto:vangilder@asabe.org)

ANSI/ASAE S584.3-2013 (R2017), Agricultural Equipment: Speed Identification Symbol (SIS)  
Approved: 12/21/2017  
Carla VanGilder, (269) 932-7015, [vangilder@asabe.org](mailto:vangilder@asabe.org)

ANSI/ASAE/ISO 9190-2002 (R2017), Lawn and garden ride-on (riding) tractors - Drawbar  
Approved: 1/4/2017  
Carla VanGilder, (269) 932-7015, [vangilder@asabe.org](mailto:vangilder@asabe.org)

ANSI/ASAE/ISO 9191-2002 (R2017), Lawn and garden ride-on (riding) tractors - Three-point hitch  
Approved: 1/4/2017  
Carla VanGilder, (269) 932-7015, [vangilder@asabe.org](mailto:vangilder@asabe.org)

ANSI/ASAE/ISO 9192-2002 (R2017), Lawn and garden ride-on (riding) tractors - One-point tubular sleeve hitch  
Approved: 1/4/2017  
Carla VanGilder, (269) 932-7015, [vangilder@asabe.org](mailto:vangilder@asabe.org)

## **ASB (ASC Z50) (AMERICAN SOCIETY OF BAKING)**

ANSI/ASB Z50.1-2006 (R2016), Bakery Equipment - Safety Standards  
Approved: 7/14/2016  
[www.asbe.org](http://www.asbe.org)

ANSI/ASB Z50.2-2015, Bakery Equipment - Sanitation Standards  
Approved: 10/12/2015  
[www.asbe.org](http://www.asbe.org)

## **ASC X9 (ACCREDITED STANDARDS COMMITTEE X9, INCORPORATED)**

ANSI X9-112-2-2014, Wireless Management and Published Security - Part 2: POS and ATM  
Approved: 10/21/2014  
Isabel Bailey, ASC X9; [Isabel.Bailey@X9.org](mailto:Isabel.Bailey@X9.org)

ANSI X9.100-10-2016, Paper Specifications for MICR Documents  
Approved: 8/2/2016  
Isabel Bailey, ASC X9; [Isabel.Bailey@X9.org](mailto:Isabel.Bailey@X9.org)

ANSI X9.100-110-2015, Document Imaging Compatibility  
Approved: 9/16/2015  
Isabel Bailey, ASC X9; [Isabel.Bailey@X9.org](mailto:Isabel.Bailey@X9.org)

ANSI X9.100-111-2018, Check Endorsements  
Approved: 8/7/2018  
Isabel Bailey, ASC X9; [Isabel.Bailey@X9.org](mailto:Isabel.Bailey@X9.org)

ANSI X9.100-120-2015, Bank Deposit Tickets  
Approved: 10/2/2015  
Isabel Bailey, ASC X9; [Isabel.Bailey@X9.org](mailto:Isabel.Bailey@X9.org)

ANSI X9.100-130-2011 (R2017), Universal Interbank Batch/Bundle Ticket  
Approved: 1/3/2017  
Isabel Bailey, ASC X9; [Isabel.Bailey@X9.org](mailto:Isabel.Bailey@X9.org)

ANSI X9.100-140-2018, Image Replacement Document (IRD) <i>Approved: 8/10/2018</i> <i>Isabel Bailey, ASC X9; Isabel.Bailey@X9.org</i>	ANSI X9.100-188-2018, Return Reasons for Check Image Exchange and IRDs <i>Approved: 8/3/2018</i> <i>Isabel Bailey, ASC X9; Isabel.Bailey@X9.org</i>	ANSI X9.105-1-2009/ISO 8583-1-2009 (R2019), Financial transaction card originated messages - Interchange message specifications - Part 1: Messages, data elements, and code values <i>Approved: 2/13/2019</i> <i>Isabel Bailey, ASC X9; Isabel.Bailey@X9.org</i>
ANSI X9.100-150-2010 (R2017), Check Carrier Envelopes <i>Approved: 1/3/2017</i> <i>Isabel Bailey, ASC X9; Isabel.Bailey@X9.org</i>	ANSI X9.100-189-2019, Savings Bond Paying Agent Virtual Stamp <i>Approved: 8/8/2019</i> <i>Isabel Bailey, ASC X9; Isabel.Bailey@X9.org</i>	ANSI X9.105-3-2009/ISO 8583-3-2008 (R2019), Financial transaction card originated messages - Interchange message specifications - Part 3: Maintenance Procedures for messages, data elements and code values <i>Approved: 3/19/2019</i> <i>Isabel Bailey, ASC X9; Isabel.Bailey@X9.org</i>
ANSI X9.100-151-2010 (R2017), Check Correction Strips <i>Approved: 1/6/2017</i> <i>Isabel Bailey, ASC X9; Isabel.Bailey@X9.org</i>	ANSI X9.100-20 Parts 1, 2 & 3-2015, Print & Test Specifications for Magnetic Ink Printing <i>Approved: 5/5/2015</i> <i>Isabel Bailey, ASC X9; Isabel.Bailey@X9.org</i>	ANSI X9.106-2003/ISO 18245 (R2019), Retail Financial Services - Merchant Category Codes <i>Approved: 2/8/2019</i> <i>Isabel Bailey, ASC X9; Isabel.Bailey@X9.org</i>
ANSI X9.100-160-1-2015, Magnetic Ink Printing (MICR) Part 1: Placement and Location <i>Approved: 11/10/2015</i> <i>Isabel Bailey, ASC X9; Isabel.Bailey@X9.org</i>	ANSI X9.100-30-2011 (R2017), Optical Background Measurement for MICR Documents <i>Approved: 1/19/2017</i> <i>Isabel Bailey, ASC X9; Isabel.Bailey@X9.org</i>	ANSI X9.107-2003/ISO 4909, Bank cards- Magnetic stripe data content for track 3 <i>Approved: 12/17/2003</i> <i>Isabel Bailey, ASC X9; Isabel.Bailey@X9.org</i>
ANSI X9.100-160 Part 2-2014, Placement and Location of Magnetic Ink Printing (MICR) - Part 2: EPC Field Use <i>Approved: 11/24/2014</i> <i>Isabel Bailey, ASC X9; Isabel.Bailey@X9.org</i>	ANSI X9.100-40-1, X9.100-40-2-2006 (R2017), Specifications for Check Image Tests Part 1: Definition of Elements and Structures Part 2: Application and Registration Procedures <i>Approved: 10/11/2017</i> <i>Isabel Bailey, ASC X9; Isabel.Bailey@X9.org</i>	ANSI X9.110-2008 (R2013), Transfer of Location of Electronic Contracts <i>Approved: 7/8/2013</i> <i>Isabel Bailey, ASC X9; Isabel.Bailey@X9.org</i>
ANSI X9.100-161-2010 (R2017), Creating MICR Document Specification Forms <i>Approved: 1/6/2017</i> <i>Isabel Bailey, ASC X9; Isabel.Bailey@X9.org</i>	ANSI X9.101/ISO 6166-2003 (R2013), Securities and related financial instruments – International securities identification numbering systems (ISIN) <i>Approved: 4/15/2013</i> <i>Isabel Bailey, ASC X9; Isabel.Bailey@X9.org</i>	ANSI X9.111-2018, Penetration Testing within the Financial Services Industry <i>Approved: 2/28/2018</i> <i>Isabel Bailey, ASC X9; Isabel.Bailey@X9.org</i>
ANSI X9.100-170-2010 (R2017), Check Fraud Deterrent Icon <i>Approved: 1/6/2017</i> <i>Isabel Bailey, ASC X9; Isabel.Bailey@X9.org</i>	ANSI X9.102-2008 (R2017), Symmetric Key Cryptography for the Financial Services Industry - Wrapping of Keys and Associated Data <i>Approved: 2/2/2017</i> <i>Isabel Bailey, ASC X9; Isabel.Bailey@X9.org</i>	ANSI X9.112-1-2016, Wireless Management and Security - Part 1: General Requirements <i>Approved: 5/18/2016</i> <i>Isabel Bailey, ASC X9; Isabel.Bailey@X9.org</i>
ANSI X9.100-180-2006 (S2018), Specifications for Electronic Exchange of Check and Image Data (Non-Domestic) <i>Approved: 8/10/2018</i> <i>Isabel Bailey, ASC X9; Isabel.Bailey@X9.org</i>	ANSI X9.103-2004 (R2018), Motor Vehicle Retail Sale and Lease Electronic Contracting <i>Approved: 3/6/2018</i> <i>Isabel Bailey, ASC X9; Isabel.Bailey@X9.org</i>	ANSI X9.112-3-2018, Wireless Management and Security Part 3: Mobile Banking <i>Approved: 7/10/2018</i> <i>Isabel Bailey, ASC X9; Isabel.Bailey@X9.org</i>
ANSI X9.100-181-2014, TIFF Image Format for Image Exchange <i>Approved: 12/22/2014</i> <i>Isabel Bailey, ASC X9; Isabel.Bailey@X9.org</i>	ANSI X9.104-1-2004 (R2017), Financial transactions card originated messages - Card acceptor to acquiring host messages: Messages, data elements and code values <i>Approved: 1/3/2017</i> <i>Isabel Bailey, ASC X9; Isabel.Bailey@X9.org</i>	ANSI X9.116-1, ISO 20022-1-2008, Financial Services - UNiversal Financial Industry message scheme - Part 1: Overall methodology and format specifications for inputs and outputs from ISO 20022 repository <i>Approved: 10/21/2008</i> <i>Isabel Bailey, ASC X9; Isabel.Bailey@X9.org</i>
ANSI X9.100-182-2011 (R2017), X9.100-182-2011 Bulk Image and Data Delivery (standard, XSD Schema, and TR 40) <i>Approved: 1/6/2017</i> <i>Isabel Bailey, ASC X9; Isabel.Bailey@X9.org</i>	ANSI X9.104, Part 2-2004 (R2016), Financial transaction card originated messages - Card acceptor to acquiring host messages - Part 2 Convenience store and petroleum marketing industry <i>Approved: 12/15/2016</i> <i>Isabel Bailey, ASC X9; Isabel.Bailey@X9.org</i>	ANSI X9.116-2, ISO 20022-2-2008, Financial services - UNiversal Financial Industry message scheme - Part 2: Roles and responsibilities of the registration bodies <i>Approved: 10/21/2008</i> <i>Isabel Bailey, ASC X9; Isabel.Bailey@X9.org</i>
ANSI X9.100-183-2010 (R2017), Electronic Check Adjustments <i>Approved: 1/6/2017</i> <i>Isabel Bailey, ASC X9; Isabel.Bailey@X9.org</i>		
ANSI X9.100-187-2016, Specifications for Electronic Exchange of Check and Image Data - Domestic <i>Approved: 8/10/2016</i> <i>Isabel Bailey, ASC X9; Isabel.Bailey@X9.org</i>		

<p>ANSI X9.117-2012, Secure Remote Access Mutual Authentication <i>Approved: 11/30/2012</i> <i>Isabel Bailey, ASC X9; Isabel.Bailey@X9.org</i></p>	<p>ANSI X9.24 Part 1-2017, Retail Financial Services Symmetric Key Management - Part 1: Using Symmetric Techniques <i>Approved: 6/8/2017</i> <i>Isabel Bailey, ASC X9; Isabel.Bailey@X9.org</i></p>	<p>ANSI X9.80-2005 (R2013), Prime Number Generation, Primality Testing, and Primality Certificates <i>Approved: 4/15/2013</i> <i>Isabel Bailey, ASC X9; Isabel.Bailey@X9.org</i></p>
<p>ANSI X9.119-1-2016, Retail Financial Services - Requirements for Protection of Sensitive Payment Card Data - Part 1: Using Encryption Methods <i>Approved: 5/19/2016</i> <i>Isabel Bailey, ASC X9; Isabel.Bailey@X9.org</i></p>	<p>ANSI X9.42-2003 (R2013), Public Key Cryptography for Financial Services Industry: Agreement of Symmetric Keys Using Discrete Logarithm Cryptography <i>Approved: 4/15/2013</i> <i>Isabel Bailey, ASC X9; Isabel.Bailey@X9.org</i></p>	<p>ANSI X9.82-2-2015, X9.82-2 Random Number Generation - Part 2: Entropy Sources <i>Approved: 9/14/2015</i> <i>Isabel Bailey, ASC X9; Isabel.Bailey@X9.org</i></p>
<p>ANSI X9.119-2-2017, Requirements for Protection of Sensitive Payment Card Data - Part 2: Using Tokenization Methods <i>Approved: 8/3/2017</i> <i>Isabel Bailey, ASC X9; Isabel.Bailey@X9.org</i></p>	<p>ANSI X9.44-2007 (R2017), Key Establishment Using Integer Factorization Cryptography <i>Approved: 2/2/2017</i> <i>Isabel Bailey, ASC X9; Isabel.Bailey@X9.org</i></p>	<p>ANSI X9.82-3-2007 (R2017), Random Number Generation Part 3: Deterministic Random Bit Generator Mechanisms <i>Approved: 1/11/2017</i> <i>Isabel Bailey, ASC X9; Isabel.Bailey@X9.org</i></p>
<p>ANSI X9.12-1991 (S2017), Specifications for Fully Registered Municipal Securities <i>Approved: 12/18/2017</i> <i>Isabel Bailey, ASC X9; Isabel.Bailey@X9.org</i></p>	<p>ANSI X9.58-2010, Financial transaction messages - Electronic benefits transfer (EBT) - Food Stamps <i>Approved: 6/26/2013</i> <i>Isabel Bailey, ASC X9; Isabel.Bailey@X9.org</i></p>	<p>ANSI X9.82-4-2011 (R2017), Random Number Generation - Part 4: Random Bit Generator Constructions <i>Approved: 2/2/2017</i> <i>Isabel Bailey, ASC X9; Isabel.Bailey@X9.org</i></p>
<p>ANSI X9.121-2016, Balance and Transaction Reporting Standard BTRS Version 3 (BTR3) <i>Approved: 2/16/2016</i> <i>Isabel Bailey, ASC X9; Isabel.Bailey@X9.org</i></p>	<p>ANSI X9.59-2006 (R2013), Electronic Commerce for the Financial Services Industry: Account-Based Secure Payment Objects <i>Approved: 4/15/2013</i> <i>Isabel Bailey, ASC X9; Isabel.Bailey@X9.org</i></p>	<p>ANSI X9.82 Part 1-2006 (R2013), Random Number Generation Part 1: Overview and Basic Principles <i>Approved: 4/15/2013</i> <i>Isabel Bailey, ASC X9; Isabel.Bailey@X9.org</i></p>
<p>ANSI X9.124-2-2018, Symmetric Key Cryptography For the Financial Services Industry — Format Preserving Encryption- Part 2: Key Stream with Counter Mode <i>Approved: 2/14/2018</i> <i>Isabel Bailey, ASC X9; Isabel.Bailey@X9.org</i></p>	<p>ANSI X9.6-2014, Committee on Uniform Security Identification Procedures Securities Identification (CUSIP) <i>Approved: 12/23/2014</i> <i>Isabel Bailey, ASC X9; Isabel.Bailey@X9.org</i></p>	<p>ANSI X9.84-2018, Biometric Information Management &amp; Security for the Financial Services Industry <i>Approved: 4/20/2018</i> <i>Isabel Bailey, ASC X9; Isabel.Bailey@X9.org</i></p>
<p>ANSI X9.126/ISO 17442-2013, Legal Entity Identifier (LEI) <i>Approved: 3/13/2013</i> <i>Isabel Bailey, ASC X9; Isabel.Bailey@X9.org</i></p>	<p>ANSI X9.63-2011 (R2017), Key Agreement and Key Management Using Elliptic Curve-Based Cryptography <i>Approved: 2/2/2017</i> <i>Isabel Bailey, ASC X9; Isabel.Bailey@X9.org</i></p>	<p>ANSI X9.92-1-2009 (R2017), Public Key Cryptography for the Financial Services Industry Digital Signature Algorithms Giving Partial Message Recovery - Part 1: Elliptic Curve Pintsov-Vanstone Signatures (ECPVS) <i>Approved: 2/2/2017</i> <i>Isabel Bailey, ASC X9; Isabel.Bailey@X9.org</i></p>
<p>ANSI X9.129-2017, Electronic File Format Standards for Presentment and Remittance of Legal Orders <i>Approved: 12/12/2017</i> <i>Isabel Bailey, ASC X9; Isabel.Bailey@X9.org</i></p>	<p>ANSI X9.69-2017, Framework for Key Management Extensions <i>Approved: 9/19/2017</i> <i>Isabel Bailey, ASC X9; Isabel.Bailey@X9.org</i></p>	<p>ANSI X9.93-1-2014, Financial Transaction Message - Electronic Benefits Transfer - Part 1: Messages <i>Approved: 2/6/2014</i> <i>Isabel Bailey, ASC X9; Isabel.Bailey@X9.org</i></p>
<p>ANSI X9.131-2015, Financial transaction messages - Electronic benefits transfer (EBT) – WIC retailer interface standard for smart cards <i>Approved: 3/24/2015</i> <i>Isabel Bailey, ASC X9; Isabel.Bailey@X9.org</i></p>	<p>ANSI X9.73-2017, Cryptographic Message Syntax - ASN.1 and XML <i>Approved: 9/28/2017</i> <i>Isabel Bailey, ASC X9; Isabel.Bailey@X9.org</i></p>	<p>ANSI X9.93-2-2014, Financial transaction messages - Electronic Benefits Transfer (EBT) - Part 2: Files <i>Approved: 2/6/2014</i> <i>Isabel Bailey, ASC X9; Isabel.Bailey@X9.org</i></p>
<p>ANSI X9.24-2-2016, Retail Financial Services Symmetric Key Management - Part 2: Using Asymmetric Techniques for the Distribution of Symmetric Keys <i>Approved: 11/16/2016</i> <i>Isabel Bailey, ASC X9; Isabel.Bailey@X9.org</i></p>	<p>ANSI X9.79 - Part 4-2013, Public Key Infrastructure (PKI) – Part 4: Asymmetric Key Management <i>Approved: 2/5/2013</i> <i>Isabel Bailey, ASC X9; Isabel.Bailey@X9.org</i></p>	<p>ANSI X9.95-2016, Trusted Time Stamp Management and Security <i>Approved: 12/1/2016</i> <i>Isabel Bailey, ASC X9; Isabel.Bailey@X9.org</i></p>
<p>ANSI X9.24-3-2017, X9.24-3 Retail Financial Services Symmetric Key Management Part 3: Derived Unique Key per Transaction <i>Approved: 10/11/2017</i> <i>Isabel Bailey, ASC X9; Isabel.Bailey@X9.org</i></p>	<p>ANSI X9.8-1-2019/ISO 9564-1-2019, Personal identification number (PIN) management and security — Part 1: Basic principles and requirements for PINs in card-based systems <i>Approved: 8/22/2019</i> <i>Isabel Bailey, ASC X9; Isabel.Bailey@X9.org</i></p>	

ANSI X9.97-1-2009 (R2017), Secure Cryptographic Devices (Retail) - Part 1: Concepts, Requirements and Evaluation Methods  
*Approved: 2/2/2017*

*Isabel Bailey, ASC X9; Isabel.Bailey@X9.org*

ANSI X9.97-2-2009 (R2017), Secure Cryptographic Devices (Retail) - Part 2: Security Compliance Checklists for Devices Used in Financial Transactions  
*Approved: 2/2/2017*

*Isabel Bailey, ASC X9; Isabel.Bailey@X9.org*

ANSI X9.98-2010 (R2017), Lattice-Based Polynomial Public Key Encryption Algorithm - Part 1: Key Establishment; Part 2: Data Encryption  
*Approved: 2/2/2017*

*Isabel Bailey, ASC X9; Isabel.Bailey@X9.org*

ANSI X9.99/ISO 22307-2009, Financial Services - Privacy Impact Assessment  
*Approved: 8/17/2009*

*Isabel Bailey, ASC X9; Isabel.Bailey@X9.org*

### **ASCA (ACCREDITED SNOW CONTRACTORS ASSOCIATION)**

ANSI/ASCA A1000-2019, Accredited Snow Contractors Association  
*Approved: 7/1/2019*

### **ASCE (AMERICAN SOCIETY OF CIVIL ENGINEERS)**

ANSI/ASCE T&DI 21-2013, Automated People Mover Standards  
*Approved: 3/26/2013*

*Leonard Kusek, 703-295-6176, lkusek@asce.org*

ANSI/ASCE/CI 67-2017, SCHEDULE DELAY ANALYSIS STANDARD  
*Approved: 4/4/2017*

*Leonard Kusek, 703-295-6176, lkusek@asce.org*

ANSI/ASCE/EWRI 12/13/14-2013, ASCE/EWRI 12-05 Standard Guidelines for the Design of Urban Subsurface Drainage; ASCE/EWRI 13-05 Standard Guidelines for the Installation of Urban Subsurface Drainage; and ASCE/EWRI 14-05 Standard Guidelines for the Operation and Maintenance of Urban Subsurface Drainage with material developed within the past five years.  
*Approved: 4/24/2013*

*Leonard Kusek, 703-295-6176, lkusek@asce.org*

ANSI/ASCE/EWRI 39-2015, Guidelines for Operational Hail Suppression Programs  
*Approved: 3/5/2015*

*Leonard Kusek, 703-295-6176, lkusek@asce.org*

ANSI/ASCE/EWRI 42-2017, Standard Practice for the Design, Conduct, and Evaluation of Operational Precipitation Enhancement Projects  
*Approved: 11/7/2016*

*Leonard Kusek, 703-295-6176, lkusek@asce.org*

ANSI/ASCE/EWRI 44-2013, Standard Practice for the Design and Operation of Supercooled Fog Dispersal Projects  
*Approved: 9/9/2013*

*Leonard Kusek, 703-295-6176, lkusek@asce.org*

ANSI/ASCE/EWRI 45-46-47-2016, ASCE/EWRI 45 Standard Guidelines for the Design of Urban Stormwater Systems ASCE/EWRI 46 Standard Guidelines for the Installation of Urban Stormwater Systems ASCE/EWRI 47 Standard Guidelines for the Operation and Maintenance of Urban Stormwater Systems  
*Approved: 8/10/2016*

*Leonard Kusek, 703-295-6176, lkusek@asce.org*

ANSI/ASCE/EWRI 50-2016, Standard Guideline for Fitting Saturated Hydraulic Conductivity Using Probability Density Functions  
*Approved: 11/16/2016*

*Leonard Kusek, 703-295-6176, lkusek@asce.org*

ANSI/ASCE/EWRI 51-2016, Standard Guideline for Calculating the Effective Saturated Hydraulic Conductivity  
*Approved: 11/16/2016*

*Leonard Kusek, 703-295-6176, lkusek@asce.org*

ANSI/ASCE/EWRI 54-2016, Standard Guideline for the Geostatistical Estimation and Block-Averaging of Homogeneous and Isotropic Saturated Hydraulic Conductivity  
*Approved: 11/16/2016*

*Leonard Kusek, 703-295-6176, lkusek@asce.org*

ANSI/ASCE/EWRI 56-2011, Guidelines for the Physical Security of Water Utilities  
*Approved: 2/3/2011*

*Leonard Kusek, 703-295-6176, lkusek@asce.org*

ANSI/ASCE/EWRI 56-10/57-10-2014, Guidelines for the Physical Security of Water Utilities; Guidelines for the Physical Security of Wastewater/Stormwater Utilities  
*Approved: 10/2/2014*

*Leonard Kusek, 703-295-6176, lkusek@asce.org*

ANSI/ASCE/EWRI 57-2011, Guidelines for the Physical Security of Wastewater/Stormwater Utilities  
*Approved: 2/3/2011*

*Leonard Kusek, 703-295-6176, lkusek@asce.org*

ANSI/ASCE/EWRI 62-2016, Standard Guidelines for the Design of Stormwater Impoundments  
*Approved: 10/5/2016*

*Leonard Kusek, 703-295-6176, lkusek@asce.org*

ANSI/ASCE/EWRI 63-2016, Standard Guidelines for the Installation of Stormwater Impoundments  
*Approved: 10/5/2016*

*Leonard Kusek, 703-295-6176, lkusek@asce.org*

ANSI/ASCE/EWRI 64-2016, Standard Guidelines for the Operation and Maintenance of Stormwater Impoundments  
*Approved: 10/11/2016*

*Leonard Kusek, 703-295-6176, lkusek@asce.org*

ANSI/ASCE/EWRI 65-2016, Calculation of the Saturated Hydraulic Conductivity of Fine-Grained Soils  
*Approved: 11/16/2016*

*Leonard Kusek, 703-295-6176, lkusek@asce.org*

ANSI/ASCE/EWRI 66-2017, Management Practices for Control of Erosion and Sediment from Construction Activities  
*Approved: 2/17/2017*

*Leonard Kusek, 703-295-6176, lkusek@asce.org*

ANSI/ASCE/SEI 25-2016, Earthquake Actuated Gas Shutoff Valves  
*Approved: 9/2/2016*

*Leonard Kusek, 703-295-6176, lkusek@asce.org*

### **ASHRAE (AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR-CONDITIONING ENGINEERS, INC.)**

ANSI/ASHRA 62.1c-2018, Ventilation for Acceptable Indoor Air Quality  
*Approved: 7/25/2018*

*Manager of Standards  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478*

ANSI/ASHRA 62.1r-2018, Ventilation for Acceptable Indoor Air Quality  
*Approved: 7/25/2018*

*Manager of Standards  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478*

ANSI/ASHRAE 135ak-2012, BACnet - A Data Communication Protocol for Building Automation and Control Networks  
*Approved: 6/28/2012*

*Manager of Standards  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478*

ANSI/ASHRAE 62.2k-2016, Ventilation and Acceptable Indoor Air Quality in Low-Rise Residential Buildings  
*Approved: 6/30/2016*

*Manager of Standards  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478*

ANSI/ASHRAE 135.1a-2006, Method of Test for Conformance to BACnet

Approved: 1/27/2006

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE 135.1b-2009, Method of Test for Conformance to BACnet

Approved: 6/25/2009

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE 135.1c-2007, Method of Test for Conformance to BACnet

Approved: 6/28/2007

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE 135.1i-2011, Method of Test for Conformance to BACnet

Approved: 2/3/2011

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE 135.1j-2012, Method of Test for Conformance to BACnet

Approved: 6/28/2012

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE 135.1p-2018, Method of Test for Conformance to BACnet

Approved: 6/1/2018

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE 135.1q-2018, Method of Test for Conformance to BACnet

Approved: 12/7/2018

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE 135.1r-2018, Method of Test for Conformance to BACnet

Approved: 6/1/2018

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE 135a-2005, BACnet - A Data Communication Protocol for Building Automation and Control Networks

Approved: 2/10/2005

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE 135aa-2012, A Data Communication Protocol for Building Automation and Control Networks

Approved: 7/26/2012

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE 135ad-2011, BACnet - A Data Communication Protocol for Building Automation and Control Networks

Approved: 6/30/2011

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE 135ae-2011, BACnet - A Data Communication Protocol for Building Automation and Control Networks

Approved: 6/30/2011

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE 135af-2011, BACnet - A Data Communication Protocol for Building Automation and Control Networks

Approved: 6/30/2011

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE 135ag-2011, BACnet - A Data Communication Protocol for Building Automation and Control Networks

Approved: 2/3/2011

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE 135ah-2011, BACnet - A Data Communication Protocol for Building Automation and Control Networks

Approved: 3/3/2011

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE 135ai-2014, BACnet - A Data Communication Protocol for Building Automation and Control Networks

Approved: 12/31/2014

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE 135aj-2016, BACnet - A Data Communication Protocol for Building Automation and Control Networks

Approved: 3/1/2016

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE 135al-2014, BACnet - A Data Communication Protocol for Building Automation and Control Networks

Approved: 12/31/2014

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE 135am-2016, BACnet - A Data Communication Protocol for Building Automation and Control Networks

Approved: 5/2/2016

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE 135aq-2016, BACnet - A Data Communication Protocol for Building Automation and Control Networks

Approved: 3/1/2016

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE 135as-2014, BACnet - A Data Communication Protocol for Building Automation and Control Networks

Approved: 12/31/2014

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE 135ay-2014, BACnet - A Data Communication Protocol for Building Automation and Control Networks

Approved: 12/31/2014

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE 135b-2008, BACnet - A Data  
Communication Protocol for Building  
Automation and Control Networks  
*Approved: 10/27/2008*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE 135bh-2016, BACnet - A Data  
Communication Protocol for Building  
Automation and Control Networks  
*Approved: 3/1/2016*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE 135d-2006, BACnet - A Data  
Communication Protocol for Building  
Automation and Control Networks  
*Approved: 6/30/2006*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE 135ba-2016, BACnet - A Data  
Communication Protocol for Building  
Automation and Control Networks  
*Approved: 5/2/2016*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE 135bi-2018, BACnet - A Data  
Communication Protocol for Building  
Automation and Control Networks  
*Approved: 6/14/2018*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE 135e-2007, BACnet - A Data  
Communication Protocol for Building  
Automation and Control Networks  
*Approved: 3/26/2007*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE 135bc-2016, BACnet - A Data  
Communication Protocol for Building  
Automation and Control Networks  
*Approved: 5/2/2016*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE 135bk-2018, BACnet - A Data  
Communication Protocol for Building  
Automation and Control Networks  
*Approved: 6/14/2018*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE 135f-2007, BACnet - A Data  
Communication Protocol for Building  
Automation and Control Networks  
*Approved: 3/26/2007*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE 135bd-2018, BACnet - A Data  
Communication Protocol for Building  
Automation and Control Networks  
*Approved: 6/14/2018*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE 135bl-2018, BACnet - A Data  
Communication Protocol for Building  
Automation and Control Networks  
*Approved: 6/14/2018*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE 135j-2009, BACnet - A Data  
Communication Protocol for Building  
Automation and Control Networks  
*Approved: 6/25/2009*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE 135be-2018, BACnet \_ A Data  
Communication Protocol for Building  
Automation and Control Networks  
*Approved: 6/14/2018*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE 135bm-2018, BACnet - A Data  
Communication Protocol for Building  
Automation and Control Networks  
*Approved: 6/14/2018*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE 135l-2009, BACnet - A Data  
Communication Protocol for Building  
Automation and Control Networks  
*Approved: 6/25/2009*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE 135bf-2016, BACnet - A Data  
Communication Protocol for Building  
Automation and Control Networks  
*Approved: 3/1/2016*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE 135bn-2018, BACnet - A Data  
Communication Protocol for Building  
Automation and Control Networks  
*Approved: 6/14/2018*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE 135m-2008, BACnet - A Data  
Communication Protocol for Building  
Automation and Control Networks  
*Approved: 10/27/2008*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE 135bg-2016, BACnet - A Data  
Communication Protocol for Building  
Automation and Control Networks  
*Approved: 3/1/2016*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE 135bp-2018, BACnet - A Data  
Communication Protocol for Building  
Automation and Control Networks  
*Approved: 6/14/2018*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE 135o-2009, BACnet - A Data  
Communication Protocol for Building  
Automation and Control Networks  
*Approved: 6/25/2009*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE 135q-2009, BACnet - A Data Communication Protocol for Building Automation and Control Networks  
*Approved: 1/29/2009*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE 135r-2009, BACnet - A Data Communication Protocol for Building Automation and Control Networks  
*Approved: 6/25/2009*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE 135s-2009, BACnet - A Data Communication Protocol for Building Automation and Control Networks  
*Approved: 6/25/2009*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE 140c-2011, Standard Method of Test for the Evaluation of Building Energy Analysis Computer Programs  
*Approved: 11/2/2011*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE 145.2d-2016, Laboratory Test Methods for Assessing the Performance of Gas-Phase Air Cleaning Systems: Air Cleaning Devices  
*Approved: 7/1/2016*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE 147a-2018, Reducing the Release of Halogenated Refrigerants from Refrigerating and Air-Conditioning Equipment and Systems  
*Approved: 3/27/2018*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE 147b-2018, Reducing the Release of Halogenated Refrigerants from Refrigerating and Air-Conditioning Equipment and Systems  
*Approved: 3/27/2018*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE 147c-2018, Reducing the Release of Halogenated Refrigerants from Refrigerating and Air-Conditioning Equipment and Systems  
*Approved: 3/27/2018*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE 147d-2018, Reducing the Release of Halogenated Refrigerants from Refrigerating and Air-Conditioning Equipment and Systems  
*Approved: 3/27/2018*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE 147e-2018, Reducing the Release of Halogenated Refrigerants from Refrigerating and Air-Conditioning Equipment and Systems  
*Approved: 3/27/2018*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE 158.2-2018, Methods of Testing Capacity of Refrigerant Pressure Regulators  
*Approved: 8/1/2018*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE 15a-2007, Safety Standard for Refrigeration Systems  
*Approved: 7/25/2007*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE 15b-2016, Safety Standard for Refrigeration Systems  
*Approved: 6/30/2016*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE 15b-2017, Safety Standard for Refrigeration Systems  
*Approved: 6/29/2017*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE 15c-2007, Safety Standard for Refrigeration Systems  
*Approved: 3/3/2007*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE 15c-2017, Safety Standard for Refrigeration Systems  
*Approved: 6/29/2017*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE 15d-2008, Safety Standard for Refrigeration Systems  
*Approved: 2/27/2008*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE 15d-2018, Safety Standard for Refrigeration Systems  
*Approved: 10/23/2018*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE 15f-2009, Safety Standard for Refrigeration Systems  
*Approved: 6/25/2009*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE 15g-2009, Safety Standard for Refrigeration Systems  
*Approved: 1/29/2009*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE 15h-2009, Safety Standard for Refrigeration Systems  
*Approved: 6/25/2009*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE 15i -2009, Safety Standard for Refrigeration Systems  
*Approved: 7/22/2009*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

**ANSI/ASHRAE 160a-2011, Criteria for Moisture Design Analysis in Buildings**

*Approved: 2/3/2011*

*Manager of Standards*

*Attn: Jim Heldenbrand ASHRAE*

*1791 Tullie Circle, N.E.*

*Atlanta Ge 30329-5478*

**ANSI/ASHRAE 161a-2009, Air Quality within Commercial Aircraft**

*Approved: 6/25/2009*

*Manager of Standards*

*Attn: Jim Heldenbrand ASHRAE*

*1791 Tullie Circle, N.E.*

*Atlanta Ge 30329-5478*

**ANSI/ASHRAE 161b-2009, Air Quality within Commercial Aircraft**

*Approved: 6/25/2009*

*Manager of Standards*

*Attn: Jim Heldenbrand ASHRAE*

*1791 Tullie Circle, N.E.*

*Atlanta Ge 30329-5478*

**ANSI/ASHRAE 161d-2019, Air Quality within Commercial Aircraft**

*Approved: 6/27/2019*

*Manager of Standards*

*Attn: Jim Heldenbrand ASHRAE*

*1791 Tullie Circle, N.E.*

*Atlanta Ge 30329-5478*

**ANSI/ASHRAE 161e-2019, Air Quality within Commercial Aircraft**

*Approved: 6/27/2019*

*Manager of Standards*

*Attn: Jim Heldenbrand ASHRAE*

*1791 Tullie Circle, N.E.*

*Atlanta Ge 30329-5478*

**ANSI/ASHRAE 169a-2006, Weather Data for Building Design Standards**

*Approved: 6/30/2006*

*Manager of Standards*

*Attn: Jim Heldenbrand ASHRAE*

*1791 Tullie Circle, N.E.*

*Atlanta Ge 30329-5478*

**ANSI/ASHRAE 169b-2013, Climatic Data for Building Design Standards**

*Approved: 11/13/2013*

*Manager of Standards*

*Attn: Jim Heldenbrand ASHRAE*

*1791 Tullie Circle, N.E.*

*Atlanta Ge 30329-5478*

**ANSI/ASHRAE 170a-2009, Ventilation of Health Care Facilities**

*Approved: 6/25/2009*

*Manager of Standards*

*Attn: Jim Heldenbrand ASHRAE*

*1791 Tullie Circle, N.E.*

*Atlanta Ge 30329-5478*

**ANSI/ASHRAE 170e-2011, Ventilation of Health Care Facilities**

*Approved: 2/3/2011*

*Manager of Standards*

*Attn: Jim Heldenbrand ASHRAE*

*1791 Tullie Circle, N.E.*

*Atlanta Ge 30329-5478*

**ANSI/ASHRAE 170f-2011, Ventilation of Health Care Facilities**

*Approved: 2/3/2011*

*Manager of Standards*

*Attn: Jim Heldenbrand ASHRAE*

*1791 Tullie Circle, N.E.*

*Atlanta Ge 30329-5478*

**ANSI/ASHRAE 170h-2011, Ventilation of Health Care Facilities**

*Approved: 7/27/2011*

*Manager of Standards*

*Attn: Jim Heldenbrand ASHRAE*

*1791 Tullie Circle, N.E.*

*Atlanta Ge 30329-5478*

**ANSI/ASHRAE 184a-2018, Method of Test for Field Performance of Liquid-Chilling Systems**

*Approved: 12/7/2018*

*Manager of Standards*

*Attn: Jim Heldenbrand ASHRAE*

*1791 Tullie Circle, N.E.*

*Atlanta Ge 30329-5478*

**ANSI/ASHRAE 188a-2017, Legionellosis: Risk Management for Building Water Systems**

*Approved: 6/29/2017*

*Manager of Standards*

*Attn: Jim Heldenbrand ASHRAE*

*1791 Tullie Circle, N.E.*

*Atlanta Ge 30329-5478*

**ANSI/ASHRAE 188b-2017, Legionellosis: Risk Management for Building Water Systems**

*Approved: 6/29/2017*

*Manager of Standards*

*Attn: Jim Heldenbrand ASHRAE*

*1791 Tullie Circle, N.E.*

*Atlanta Ge 30329-5478*

**ANSI/ASHRAE 188c-2017, Legionellosis: Risk Management for Building Water Systems**

*Approved: 6/29/2017*

*Manager of Standards*

*Attn: Jim Heldenbrand ASHRAE*

*1791 Tullie Circle, N.E.*

*Atlanta Ge 30329-5478*

**ANSI/ASHRAE 188e-2017, Legionellosis: Risk Management for Building Water Systems**

*Approved: 6/29/2017*

*Manager of Standards*

*Attn: Jim Heldenbrand ASHRAE*

*1791 Tullie Circle, N.E.*

*Atlanta Ge 30329-5478*

**ANSI/ASHRAE 188f-2018, Legionellosis: Risk Management for Building Water Systems**

*Approved: 1/25/2018*

*Manager of Standards*

*Attn: Jim Heldenbrand ASHRAE*

*1791 Tullie Circle, N.E.*

*Atlanta Ge 30329-5478*

**ANSI/ASHRAE 188h-2018, Legionellosis: Risk Management for Building Water Systems**

*Approved: 6/28/2018*

*Manager of Standards*

*Attn: Jim Heldenbrand ASHRAE*

*1791 Tullie Circle, N.E.*

*Atlanta Ge 30329-5478*

**ANSI/ASHRAE 20-2019, Method of Test for Rating Remote Mechanical-Draft Air-Cooled Refrigerant Condensers**

*Approved: 1/4/2019*

*Manager of Standards*

*Attn: Jim Heldenbrand ASHRAE*

*1791 Tullie Circle, N.E.*

*Atlanta Ge 30329-5478*

**ANSI/ASHRAE 222-2018, Standard Method of Test for Electrical Power Drive Systems**

*Approved: 8/1/2018*

*Manager of Standards*

*Attn: Jim Heldenbrand ASHRAE*

*1791 Tullie Circle, N.E.*

*Atlanta Ge 30329-5478*

**ANSI/ASHRAE 34a-2007, Designation and Safety Classification of Refrigerants**

*Approved: 6/28/2007*

*Manager of Standards*

*Attn: Jim Heldenbrand ASHRAE*

*1791 Tullie Circle, N.E.*

*Atlanta Ge 30329-5478*

**ANSI/ASHRAE 34a-2017, Designation and Safety Classification of Refrigerants**

*Approved: 6/29/2017*

*Manager of Standards*

*Attn: Jim Heldenbrand ASHRAE*

*1791 Tullie Circle, N.E.*

*Atlanta Ge 30329-5478*

**ANSI/ASHRAE 34aa-2012, Designation and Safety Classification of Refrigerants**

*Approved: 6/28/2012*

*Manager of Standards*

*Attn: Jim Heldenbrand ASHRAE*

*1791 Tullie Circle, N.E.*

*Atlanta Ge 30329-5478*

**ANSI/ASHRAE 34ab-2012, Designation and Safety Classification of Refrigerants**

*Approved: 6/28/2012*

*Manager of Standards*

*Attn: Jim Heldenbrand ASHRAE*

*1791 Tullie Circle, N.E.*

*Atlanta Ge 30329-5478*

**ANSI/ASHRAE 34ab-2016, Designation and Safety Classification of Refrigerants**

*Approved: 8/30/2016*

*Manager of Standards*

*Attn: Jim Heldenbrand ASHRAE*

*1791 Tullie Circle, N.E.*

*Atlanta Ge 30329-5478*

**ANSI/ASHRAE 34ac-2016, Designation and Safety Classification of Refrigerants**

*Approved: 8/30/2016*

*Manager of Standards*

*Attn: Jim Heldenbrand ASHRAE*

*1791 Tullie Circle, N.E.*

*Atlanta Ge 30329-5478*

**ANSI/ASHRAE 34ad-2016, ANSI/ASHRAE Standard 34-2013, Designation and Safety Classification of Refrigerants**

*Approved: 6/30/2016*

*Manager of Standards*

*Attn: Jim Heldenbrand ASHRAE*

*1791 Tullie Circle, N.E.*

*Atlanta Ge 30329-5478*

**ANSI/ASHRAE 34af-2009, Designation and Safety Classification of Refrigerants**

*Approved: 6/25/2009*

*Manager of Standards*

*Attn: Jim Heldenbrand ASHRAE*

*1791 Tullie Circle, N.E.*

*Atlanta Ge 30329-5478*

**ANSI/ASHRAE 34af-2016, ANSI/ASHRAE Standard 34-2013, Designation and Safety Classification of Refrigerants**

*Approved: 6/30/2016*

*Manager of Standards*

*Attn: Jim Heldenbrand ASHRAE*

*1791 Tullie Circle, N.E.*

*Atlanta Ge 30329-5478*

**ANSI/ASHRAE 34ag-2009, Designation and Safety Classification of Refrigerants**

*Approved: 6/25/2009*

*Manager of Standards*

*Attn: Jim Heldenbrand ASHRAE*

*1791 Tullie Circle, N.E.*

*Atlanta Ge 30329-5478*

**ANSI/ASHRAE 34ag-2016, ANSI/ASHRAE Standard 34-2013, Designation and Safety Classification of Refrigerants**

*Approved: 6/30/2016*

*Manager of Standards*

*Attn: Jim Heldenbrand ASHRAE*

*1791 Tullie Circle, N.E.*

*Atlanta Ge 30329-5478*

**ANSI/ASHRAE 34ah-2016, ANSI/ASHRAE Standard 34-2013, Designation and Safety Classification of Refrigerants**

*Approved: 6/30/2016*

*Manager of Standards*

*Attn: Jim Heldenbrand ASHRAE*

*1791 Tullie Circle, N.E.*

*Atlanta Ge 30329-5478*

**ANSI/ASHRAE 34ai-2016, ANSI/ASHRAE Standard 34-2013, Designation and Safety Classification of Refrigerants**

*Approved: 6/30/2016*

*Manager of Standards*

*Attn: Jim Heldenbrand ASHRAE*

*1791 Tullie Circle, N.E.*

*Atlanta Ge 30329-5478*

**ANSI/ASHRAE 34b-2007, Designation and Safety Classification of Refrigerants**

*Approved: 6/28/2007*

*Manager of Standards*

*Attn: Jim Heldenbrand ASHRAE*

*1791 Tullie Circle, N.E.*

*Atlanta Ge 30329-5478*

**ANSI/ASHRAE 34b-2017, Designation and Safety Classification of Refrigerants**

*Approved: 6/29/2017*

*Manager of Standards*

*Attn: Jim Heldenbrand ASHRAE*

*1791 Tullie Circle, N.E.*

*Atlanta Ge 30329-5478*

**ANSI/ASHRAE 34c-2007, Designation and Safety Classification of Refrigerants**

*Approved: 6/28/2007*

*Manager of Standards*

*Attn: Jim Heldenbrand ASHRAE*

*1791 Tullie Circle, N.E.*

*Atlanta Ge 30329-5478*

**ANSI/ASHRAE 34c-2017, Designation and Safety Classification of Refrigerants**

*Approved: 10/10/2017*

*Manager of Standards*

*Attn: Jim Heldenbrand ASHRAE*

*1791 Tullie Circle, N.E.*

*Atlanta Ge 30329-5478*

**ANSI/ASHRAE 34d-2007, Designation and Safety Classification of Refrigerants**

*Approved: 3/3/2007*

*Manager of Standards*

*Attn: Jim Heldenbrand ASHRAE*

*1791 Tullie Circle, N.E.*

*Atlanta Ge 30329-5478*

**ANSI/ASHRAE 34d-2017, Designation and Safety Classification of Refrigerants**

*Approved: 6/29/2017*

*Manager of Standards*

*Attn: Jim Heldenbrand ASHRAE*

*1791 Tullie Circle, N.E.*

*Atlanta Ge 30329-5478*

**ANSI/ASHRAE 34e-2007, Designation and Safety Classification of Refrigerants**

*Approved: 6/28/2007*

*Manager of Standards*

*Attn: Jim Heldenbrand ASHRAE*

*1791 Tullie Circle, N.E.*

*Atlanta Ge 30329-5478*

**ANSI/ASHRAE 34e-2017, Designation and Safety Classification of Refrigerants**

*Approved: 6/29/2017*

*Manager of Standards*

*Attn: Jim Heldenbrand ASHRAE*

*1791 Tullie Circle, N.E.*

*Atlanta Ge 30329-5478*

**ANSI/ASHRAE 34f-2007, Designation and Safety Classification of Refrigerants**

*Approved: 6/28/2007*

*Manager of Standards*

*Attn: Jim Heldenbrand ASHRAE*

*1791 Tullie Circle, N.E.*

*Atlanta Ge 30329-5478*

**ANSI/ASHRAE 34g-2007, Designation and Safety Classification of Refrigerants**

*Approved: 6/28/2007*

*Manager of Standards*

*Attn: Jim Heldenbrand ASHRAE*

*1791 Tullie Circle, N.E.*

*Atlanta Ge 30329-5478*

**ANSI/ASHRAE 34h-2007, Designation and Safety Classification of Refrigerants**

*Approved: 6/28/2007*

*Manager of Standards*

*Attn: Jim Heldenbrand ASHRAE*

*1791 Tullie Circle, N.E.*

*Atlanta Ge 30329-5478*

**ANSI/ASHRAE 34h-2018, Designation and Safety Classification of Refrigerants**

*Approved: 1/25/2018*

*Manager of Standards*

*Attn: Jim Heldenbrand ASHRAE*

*1791 Tullie Circle, N.E.*

*Atlanta Ge 30329-5478*

**ANSI/ASHRAE 34i-2011, Designation and Safety Classification of Refrigerants**

*Approved: 6/30/2011*

*Manager of Standards*

*Attn: Jim Heldenbrand ASHRAE*

*1791 Tullie Circle, N.E.*

*Atlanta Ge 30329-5478*

**ANSI/ASHRAE 34j-2011, Designation and Safety Classification of Refrigerants**

*Approved: 6/30/2011*

*Manager of Standards*

*Attn: Jim Heldenbrand ASHRAE*

*1791 Tullie Circle, N.E.*

*Atlanta Ge 30329-5478*

**ANSI/ASHRAE 34j-2018, Designation and Safety Classification of Refrigerants**

*Approved: 1/25/2018*

*Manager of Standards*

*Attn: Jim Heldenbrand ASHRAE*

*1791 Tullie Circle, N.E.*

*Atlanta Ge 30329-5478*

**ANSI/ASHRAE 34k-2011, Designation and Safety Classification of Refrigerants**

*Approved: 6/30/2011*

*Manager of Standards*

*Attn: Jim Heldenbrand ASHRAE*

*1791 Tullie Circle, N.E.*

*Atlanta Ge 30329-5478*

**ANSI/ASHRAE 34o-2011, Designation and Safety Classification of Refrigerants**

*Approved: 6/30/2011*

*Manager of Standards*

*Attn: Jim Heldenbrand ASHRAE*

*1791 Tullie Circle, N.E.*

*Atlanta Ge 30329-5478*

**ANSI/ASHRAE 34s-2007, Designation and Safety Classification of Refrigerants**

*Approved: 6/26/2008*

*Manager of Standards*

*Attn: Jim Heldenbrand ASHRAE*

*1791 Tullie Circle, N.E.*

*Atlanta Ge 30329-5478*

**ANSI/ASHRAE 34k-2018, Designation and Safety Classification of Refrigerants**

*Approved: 1/25/2018*

*Manager of Standards*

*Attn: Jim Heldenbrand ASHRAE*

*1791 Tullie Circle, N.E.*

*Atlanta Ge 30329-5478*

**ANSI/ASHRAE 34o-2015, Designation and Safety Classification of Refrigerants**

*Approved: 11/2/2015*

*Manager of Standards*

*Attn: Jim Heldenbrand ASHRAE*

*1791 Tullie Circle, N.E.*

*Atlanta Ge 30329-5478*

**ANSI/ASHRAE 34s-2015, Designation and Safety Classification of Refrigerants**

*Approved: 11/2/2015*

*Manager of Standards*

*Attn: Jim Heldenbrand ASHRAE*

*1791 Tullie Circle, N.E.*

*Atlanta Ge 30329-5478*

**ANSI/ASHRAE 34l-2011, Designation and Safety Classification of Refrigerants**

*Approved: 6/30/2011*

*Manager of Standards*

*Attn: Jim Heldenbrand ASHRAE*

*1791 Tullie Circle, N.E.*

*Atlanta Ge 30329-5478*

**ANSI/ASHRAE 34p-2007, Designation and Safety Classification of Refrigerants**

*Approved: 6/26/2008*

*Manager of Standards*

*Attn: Jim Heldenbrand ASHRAE*

*1791 Tullie Circle, N.E.*

*Atlanta Ge 30329-5478*

**ANSI/ASHRAE 34t-2007, Designation and Safety Classification of Refrigerants**

*Approved: 3/3/2007*

*Manager of Standards*

*Attn: Jim Heldenbrand ASHRAE*

*1791 Tullie Circle, N.E.*

*Atlanta Ge 30329-5478*

**ANSI/ASHRAE 34l-2018, Designation and Safety Classification of Refrigerants**

*Approved: 1/25/2018*

*Manager of Standards*

*Attn: Jim Heldenbrand ASHRAE*

*1791 Tullie Circle, N.E.*

*Atlanta Ge 30329-5478*

**ANSI/ASHRAE 34p-2015, Designation and Safety Classification of Refrigerants**

*Approved: 11/2/2015*

*Manager of Standards*

*Attn: Jim Heldenbrand ASHRAE*

*1791 Tullie Circle, N.E.*

*Atlanta Ge 30329-5478*

**ANSI/ASHRAE 34t-2015, Designation and Safety Classification of Refrigerants**

*Approved: 11/2/2015*

*Manager of Standards*

*Attn: Jim Heldenbrand ASHRAE*

*1791 Tullie Circle, N.E.*

*Atlanta Ge 30329-5478*

**ANSI/ASHRAE 34m-2007, Designation and Safety Classification of Refrigerants**

*Approved: 3/3/2007*

*Manager of Standards*

*Attn: Jim Heldenbrand ASHRAE*

*1791 Tullie Circle, N.E.*

*Atlanta Ge 30329-5478*

**ANSI/ASHRAE 34q-2007, Designation and Safety Classification of Refrigerants**

*Approved: 6/26/2008*

*Manager of Standards*

*Attn: Jim Heldenbrand ASHRAE*

*1791 Tullie Circle, N.E.*

*Atlanta Ge 30329-5478*

**ANSI/ASHRAE 34u-2007, Designation and Safety Classification of Refrigerants**

*Approved: 6/26/2008*

*Manager of Standards*

*Attn: Jim Heldenbrand ASHRAE*

*1791 Tullie Circle, N.E.*

*Atlanta Ge 30329-5478*

**ANSI/ASHRAE 34m-2018, Designation and Safety Classification of Refrigerants**

*Approved: 1/25/2018*

*Manager of Standards*

*Attn: Jim Heldenbrand ASHRAE*

*1791 Tullie Circle, N.E.*

*Atlanta Ge 30329-5478*

**ANSI/ASHRAE 34q-2015, Designation and Safety Classification of Refrigerants**

*Approved: 11/2/2015*

*Manager of Standards*

*Attn: Jim Heldenbrand ASHRAE*

*1791 Tullie Circle, N.E.*

*Atlanta Ge 30329-5478*

**ANSI/ASHRAE 34u-2016, Designation and Safety Classification of Refrigerants**

*Approved: 1/28/2016*

*Manager of Standards*

*Attn: Jim Heldenbrand ASHRAE*

*1791 Tullie Circle, N.E.*

*Atlanta Ge 30329-5478*

**ANSI/ASHRAE 34n-2011, Designation and Safety Classification of Refrigerants**

*Approved: 6/30/2011*

*Manager of Standards*

*Attn: Jim Heldenbrand ASHRAE*

*1791 Tullie Circle, N.E.*

*Atlanta Ge 30329-5478*

**ANSI/ASHRAE 34r-2007, Designation and Safety Classification of Refrigerants**

*Approved: 6/26/2008*

*Manager of Standards*

*Attn: Jim Heldenbrand ASHRAE*

*1791 Tullie Circle, N.E.*

*Atlanta Ge 30329-5478*

**ANSI/ASHRAE 34v-2007, Designation and Safety Classification of Refrigerants**

*Approved: 3/27/2007*

*Manager of Standards*

*Attn: Jim Heldenbrand ASHRAE*

*1791 Tullie Circle, N.E.*

*Atlanta Ge 30329-5478*

**ANSI/ASHRAE 34n-2018, Designation and Safety Classification of Refrigerants**

*Approved: 1/25/2018*

*Manager of Standards*

*Attn: Jim Heldenbrand ASHRAE*

*1791 Tullie Circle, N.E.*

*Atlanta Ge 30329-5478*

**ANSI/ASHRAE 34r-2015, Designation and Safety Classification of Refrigerants**

*Approved: 11/2/2015*

*Manager of Standards*

*Attn: Jim Heldenbrand ASHRAE*

*1791 Tullie Circle, N.E.*

*Atlanta Ge 30329-5478*

**ANSI/ASHRAE 34v-2016, Designation and Safety Classification of Refrigerants**

*Approved: 1/28/2016*

*Manager of Standards*

*Attn: Jim Heldenbrand ASHRAE*

*1791 Tullie Circle, N.E.*

*Atlanta Ge 30329-5478*

ANSI/ASHRAE 34w-2009, Designation and Safety Classification of Refrigerants

Approved: 11/18/2009

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE 34x-2016, Designation and Safety Classification of Refrigerants

Approved: 1/28/2016

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE 34y-2016, Designation and Safety Classification of Refrigerants

Approved: 6/30/2016

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE 34z-2012, Designation and Safety Classification of Refrigerants

Approved: 6/28/2012

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE 34z-2016, Designation and Safety Classification of Refrigerants

Approved: 6/30/2016

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE 52.2a-2006, Method of Testing General Ventilation Air-Cleaning Devices for Removal Efficiency by Particle Size

Approved: 1/27/2006

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE 52.2a-2014, Method of Testing General Ventilation Air Cleaning Devices for Removal Efficiency by Particle Size

Approved: 12/31/2014

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE 52.2b-2008, Method of Testing General Ventilation Air-Cleaning Devices for Removal by Particle Size

Approved: 7/24/2008

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE 52.2e-2016, Method of Testing General Ventilation Air Cleaning Devices for Removal Efficiency by Particle Size

Approved: 3/1/2016

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE 52.2f-2016, Method of Testing General Ventilation Air Cleaning Devices for Removal Efficiency by Particle Size

Approved: 3/1/2016

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE 52.2g-2016, Method of Testing General Ventilation Air Cleaning Devices for Removal Efficiency by Particle Size

Approved: 12/30/2016

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE 52.2i-2016, Method of Testing General Ventilation Air Cleaning Devices for Removal Efficiency by Particle Size

Approved: 12/30/2016

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE 55a-2011, Thermal Environmental Conditions for Human Occupancy

Approved: 6/30/2011

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE 55e-2012, Thermal Environmental Conditions for Human Occupancy

Approved: 6/28/2012

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE 55g-2016, Thermal Environmental Conditions for Human Occupancy

Approved: 10/1/2016

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE 62.1b-2007, Ventilation for Acceptable Indoor Air Quality

Approved: 6/28/2007

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE 62.1c-2009, Ventilation for Acceptable Indoor Air Quality

Approved: 7/22/2009

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE 62.1c-2015, Ventilation for Acceptable Indoor Air Quality

Approved: 1/29/2015

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE 62.1d-2009, Ventilation for Acceptable Indoor Air Quality

Approved: 7/22/2009

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE 62.1e-2018, Ventilation for Acceptable Indoor Air Quality

Approved: 1/25/2018

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE 62.1f-2018, Ventilation for Acceptable Indoor Air Quality

Approved: 6/28/2018

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE 62.1g-2006, Ventilation for Acceptable Indoor Air Quality, Addenda g

Approved: 1/20/2006

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE 62.1g-2018, Ventilation for Acceptable Indoor Air Quality

Approved: 6/28/2018

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE 62.1h-2018, Ventilation for Acceptable Indoor Air Quality

Approved: 6/28/2018

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE 62.1o-2009, Ventilation for Acceptable Indoor Air Quality

Approved: 6/25/2009

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE 62.1w-2018, Ventilation for Acceptable Indoor Air Quality

Approved: 6/28/2018

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE 62.1i -2009, Ventilation for Acceptable Indoor Air Quality

Approved: 7/22/2009

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE 62.1o-2018, Ventilation for Acceptable Indoor Air Quality

Approved: 7/25/2018

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE 62.1z-2018, Ventilation for Acceptable Indoor Air Quality

Approved: 6/28/2018

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE 62.1j-2018, Ventilation for Acceptable Indoor Air Quality

Approved: 6/28/2018

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE 62.1p-2009, Ventilation for Acceptable Indoor Air Quality

Approved: 7/22/2009

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE 62.2a-2008, Ventilation and Acceptable Indoor Air Quality in Low-Rise Residential Buildings

Approved: 6/26/2008

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE 62.1l-2009, Ventilation for Acceptable Indoor Air Quality

Approved: 6/25/2009

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE 62.1q-2015, Ventilation for Acceptable Indoor Air Quality

Approved: 1/29/2015

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE 62.2e-2007, Ventilation and Acceptable Indoor Air Quality in Low-Rise Residential Buildings

Approved: 3/3/2007

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE 62.1l-2012, Ventilation for Acceptable Indoor Air Quality

Approved: 6/28/2012

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE 62.1q-2018, Ventilation for Acceptable Indoor Air Quality

Approved: 7/25/2018

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE 62.2e-2018, Ventilation and Acceptable Indoor Air Quality in Residential Buildings

Approved: 7/25/2018

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE 62.1m-2009, Ventilation for Acceptable Indoor Air Quality

Approved: 6/25/2009

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE 62.1s-2009, Ventilation for Acceptable Indoor Air Quality

Approved: 6/25/2009

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE 62.2f-2009, Ventilation and Acceptable Indoor Air Quality in Low-Rise Residential Buildings

Approved: 6/25/2009

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE 62.1m-2019, Ventilation for Acceptable Indoor Air Quality

Approved: 2/13/2019

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE 62.1u-2018, Ventilation for Acceptable Indoor Air Quality

Approved: 7/25/2018

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE 62.2g-2006, Ventilation and Acceptable Indoor Air Quality in Low-Rise Residential Buildings

Approved: 4/10/2006

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE 62.1n-2009, Ventilation for Acceptable Indoor Air Quality

Approved: 6/25/2009

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE 62.1v-2018, Ventilation for Acceptable Indoor Air Quality

Approved: 7/25/2018

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE 62.2g-2018, Ventilation and Acceptable Indoor Air Quality in Residential Buildings  
*Approved: 1/25/2018*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE 62.2h-2007, Ventilation and Acceptable Indoor Air Quality in Low-Rise Residential Buildings  
*Approved: 3/27/2007*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE 62.2i-2009, Ventilation and Acceptable Indoor Air Quality in Low-Rise Residential Buildings  
*Approved: 6/25/2009*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE 62.2i-2018, Ventilation and Acceptable Indoor Air Quality in Residential Buildings  
*Approved: 1/25/2018*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE 62.2k-2007, Ventilation and Acceptable Indoor Air Quality in Low-Rise Residential Buildings  
*Approved: 7/25/2007*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE 62.2o-2012, Ventilation and Acceptable Indoor Air Quality in Low-Rise Residential Buildings  
*Approved: 7/26/2012*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE 62.2p-2019, Ventilation and Acceptable Indoor Air Quality in Residential Buildings  
*Approved: 2/13/2019*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE 62.2q-2016, Ventilation and Acceptable Indoor Air Quality in Low-Rise Residential Buildings  
*Approved: 6/30/2016*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE 62.2r-2012, Ventilation and Acceptable Indoor Air Quality in Low-Rise Residential Buildings  
*Approved: 7/26/2012*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE 62.2U-2019, Ventilation and Acceptable Indoor Air Quality in Residential Buildings  
*Approved: 2/13/2019*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE 62.2v-2016, Ventilation and Acceptable Indoor Air Quality in Low-Rise Residential Buildings  
*Approved: 2/24/2016*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE 62aa-2004, Ventilation for Acceptable Indoor Air Quality  
*Approved: 8/5/2004*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE 62ae-2003, Ventilation and Acceptable Indoor Air Quality  
*Approved: 9/29/2003*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE 62af-2003, Ventilation and Acceptable Indoor Air Quality in Commercial, Institutional, and High-Rise Residential Buildings, Addenda af  
*Approved: 5/27/2003*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE 62h-2003, Ventilation for Acceptable Indoor Air Quality, Addenda h  
*Approved: 11/26/2003*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE 62i-2002, Ventilation for Acceptable Indoor Air Quality (Addenda i)  
*Approved: 3/25/2002*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE 62j-2001, Ventilation for Acceptable Indoor Air Quality, Addenda j  
*Approved: 11/27/2001*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE 62k-2002, Ventilation for Acceptable Indoor Air Quality, Addenda k  
*Approved: 9/30/2002*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE 62m-2001, Ventilation for Acceptable Indoor Air Quality, Addenda m  
*Approved: 11/27/2001*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE 62n-2004, Ventilation and Acceptable Indoor Air Quality in Commercial, Institutional, and High-Rise Residential Buildings, Addenda n  
*Approved: 1/8/2004*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE 62o-2003, Ventilation for Acceptable Indoor Air Quality  
*Approved: 4/2/2003*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE 62p-2001, Ventilation for Acceptable Indoor Air Quality, Addenda p  
*Approved: 12/14/2001*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE 62q-2001, Ventilation for Acceptable Indoor Air Quality, Addenda q

Approved: 11/27/2001

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE 62r-2003, Ventilation and Acceptable Indoor Air Quality in Commercial, Institutional, and High-Rise Residential Buildings, Addenda r

Approved: 5/27/2003

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE 62s-2001, Ventilation for Acceptable Indoor Air Quality, (Addenda s)

Approved: 11/6/2001

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE 62t-2002, Ventilation for Acceptable Indoor Air Quality

Approved: 4/9/2002

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE 62u-2002, Ventilation for Acceptable Indoor Air Quality

Approved: 4/24/2002

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE 62v-2002, Ventilation for Acceptable Indoor Air Quality, Addenda v

Approved: 4/12/2002

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE 62w-2001, Ventilation for Acceptable Indoor Air Quality, Addenda w

Approved: 11/27/2001

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE 62x-2003, Ventilation for Acceptable Indoor Air Quality

Approved: 11/19/2003

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE 62y-2004, Ventilation for Acceptable Indoor Air Quality

Approved: 8/5/2004

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE 62z-2003, Ventilation and Acceptable Indoor Air Quality in Commercial, Institutional, and High-Rise Residential Buildings, Addenda z

Approved: 6/4/2003

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE 90.1n-2003, Energy Standard for Buildings Except Low-Rise Residential Buildings

Approved: 9/25/2003

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE 90.2k-2007, Energy Efficient Design of Low-Rise Residential Buildings

Approved: 3/3/2007

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE 90.4a-2018, Energy Standard for Data Centers

Approved: 1/25/2018

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE 90.4b-2018, Energy Standard for Data Centers

Approved: 1/25/2018

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum f to Standard 90.4-2019, Energy Standard for Data Centers

Approved: 6/27/2019

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 105a-2011, Standard Methods of Measuring and Expressing Building Energy Performance

Approved: 1/26/2012

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 105b-2012, Standard Methods of Measuring and Expressing Building Energy Performance

Approved: 1/26/2012

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 135.1d-2010, Method of Test for Conformance to BACnet

Approved: 7/1/2010

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 135.1e-2011, Method of Test for Conformance to BACnet

Approved: 2/3/2011

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 135.1f-2011, Method of Test for Conformance to BACnet

Approved: 2/3/2011

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 135.1g-2011, Method of Test for Conformance to BACnet

Approved: 2/3/2011

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 135.1h-2011, Method of Test for Conformance to BACnet

Approved: 2/3/2011

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 135ab-2011, BACnet - A Data Communication Protocol for Building Automation and Control Networks

Approved: 2/3/2011

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 135ac-2011, BACnet - A Data Communication Protocol for Building Automation and Control Networks

Approved: 2/3/2011

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 135bq-2018, BACnet -  
A Data Communication Protocol for Building  
Automation and Control Networks

Approved: 6/14/2018

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 135bs-2019, BACnet -  
A Data Communication Protocol for Building  
Automation and Control Networks

Approved: 8/26/2019

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 135g-2010, BACnet -  
A Data Communication Protocol for Building  
Automation and Control Networks

Approved: 7/1/2010

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 135h-2010, BACnet -  
A Data Communication Protocol for Building  
Automation and Control Networks

Approved: 1/28/2010

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 135k-2010, BACnet -  
A Data Communication Protocol for Building  
Automation and Control Networks

Approved: 1/28/2010

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 135n-2010, BACnet -  
A Data Communication Protocol for Building  
Automation and Control Networks

Approved: 1/28/2010

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 135p-2010, BACnet -  
A Data Communication Protocol for Building  
Automation and Control Networks

Approved: 7/1/2010

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 135t-2010, BACnet -  
A Data Communication Protocol for Building  
Automation and Control Networks

Approved: 1/28/2010

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 135u-2010, BACnet -  
A Data Communication Protocol for Building  
Automation and Control Networks

Approved: 1/28/2010

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 135v-2009, BACnet -  
A Data Communication Protocol for Building  
Automation and Control Networks

Approved: 6/25/2009

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 135w-2010, BACnet -  
A Data Communication Protocol for Building  
Automation and Control Networks

Approved: 1/28/2010

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 135x-2010, BACnet -  
A Data Communication Protocol for Building  
Automation and Control Networks

Approved: 1/28/2010

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 135y-2010, BACnet -  
A Data Communication Protocol for Building  
Automation and Control Networks

Approved: 1/28/2010

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 135z-2010, BACnet -  
A Data Communication Protocol for Building  
Automation and Control Networks

Approved: 7/1/2010

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 140b-2010, Standard  
Method of Test for the Evaluation of Building  
Energy Analysis Computer Programs

Approved: 1/28/2010

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 15a-2014, Safety  
Standard for Refrigeration Systems

Approved: 1/23/2014

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 15b-2012, Safety  
Standard for Refrigeration Systems

Approved: 1/26/2012

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 15c-2012, Safety  
Standard for Refrigeration Systems

Approved: 1/26/2012

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 15d-2012, Safety  
Standard for Refrigeration Systems

Approved: 1/26/2012

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 15e-2012, Safety  
Standard for Refrigeration Systems

Approved: 1/26/2012

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 15f-2012, Safety  
Standard for Refrigeration Systems

Approved: 1/26/2012

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 161b-2017, Air  
Quality within Commercial Aircraft

Approved: 2/2/2017

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 161c-2013, Air Quality within Commercial Aircraft

Approved: 1/30/2013

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 161c-2017, Air Quality within Commercial Aircraft

Approved: 2/2/2017

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 161d-2013, Air Quality within Commercial Aircraft

Approved: 1/30/2013

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 161d-2017, Air Quality within Commercial Aircraft

Approved: 6/29/2017

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 161d-2017a, Air Quality within Commercial Aircraft

Approved: 6/29/2017

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 161f-2013, Air Quality within Commercial Aircraft

Approved: 1/30/2013

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 161g-2013, Air Quality within Commercial Aircraft

Approved: 6/27/2013

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 170j-2012, Ventilation of Health Care Facilities

Approved: 10/27/2012

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 170k-2013, Ventilation of Health Care Facilities

Approved: 1/30/2013

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 170n-2013, Ventilation of Health Care Facilities

Approved: 1/30/2013

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 170q-2012, Ventilation of Health Care Facilities

Approved: 10/27/2012

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 170s-2012, Ventilation of Health Care Facilities

Approved: 6/28/2012

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 170t-2012, Ventilation of Health Care Facilities

Approved: 10/27/2012

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 170v-2013, Ventilation of Health Care Facilities

Approved: 1/30/2013

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 34a-2010, Designation and Safety Classification of Refrigerants

Approved: 7/1/2010

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 34a-2014, Designation and Safety Classification of Refrigerants

Approved: 1/23/2014

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 34aa-2009, Designation and Safety Classification of Refrigerants

Approved: 1/29/2009

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 34ab-2009, Designation and Safety Classification of Refrigerants

Approved: 1/29/2009

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 34ac-2013, Designation and Safety Classification of Refrigerants

Approved: 1/30/2013

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 34ad -2009, Designation and Safety Classification of Refrigerants

Approved: 1/29/2009

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 34ad-2013, Designation and Safety Classification of Refrigerants

Approved: 1/30/2013

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 34ae-2009, Designation and Safety Classification of Refrigerants

Approved: 1/29/2009

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 34ae-2013, Designation and Safety Classification of Refrigerants

Approved: 1/30/2013

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 34af-2013,  
Designation and Safety Classification of  
Refrigerants  
*Approved: 1/30/2013*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 34ag to Standard 34  
-2013, Designation and Safety Classification  
of Refrigerants  
*Approved: 6/27/2013*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 34ah-2010,  
Designation and Safety Classification of  
Refrigerants  
*Approved: 1/28/2010*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 34ah to Standard 34  
-2013, Designation and Safety Classification  
of Refrigerants  
*Approved: 6/27/2013*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 34ai-2010,  
Designation and Safety Classification of  
Refrigerants  
*Approved: 1/28/2010*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 34ai to Standard 34  
-2013, Designation and Safety Classification  
of Refrigerants  
*Approved: 6/27/2013*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 34aj-2010,  
Designation and Safety Classification of  
Refrigerants  
*Approved: 1/28/2010*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 34aj to Standard 34  
-2013, Designation and Safety Classification  
of Refrigerants  
*Approved: 6/27/2013*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 34ak-2010,  
Designation and Safety Classification of  
Refrigerants  
*Approved: 2/24/2010*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 34b-2010,  
Designation and Safety Classification of  
Refrigerants  
*Approved: 7/1/2010*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 34b-2014,  
Designation and Safety Classification of  
Refrigerants  
*Approved: 1/23/2014*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 34c-2011,  
Designation and Safety Classification of  
Refrigerants  
*Approved: 7/27/2011*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 34c-2014,  
Designation and Safety Classification of  
Refrigerants  
*Approved: 1/23/2014*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 34d-2010,  
Designation and Safety Classification of  
Refrigerants  
*Approved: 7/1/2010*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 34d-2014,  
Designation and Safety Classification of  
Refrigerants  
*Approved: 7/3/2014*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 34e-2011,  
Designation and Safety Classification of  
Refrigerants  
*Approved: 2/3/2011*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 34e-2014,  
Designation and Safety Classification of  
Refrigerants  
*Approved: 7/3/2014*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 34f-2011, Designation  
and Safety Classification of Refrigerants  
*Approved: 2/3/2011*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 34f-2014, Designation  
and Safety Classification of Refrigerants  
*Approved: 7/3/2014*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 34g-2011,  
Designation and Safety Classification of  
Refrigerants  
*Approved: 2/3/2011*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 34g-2014,  
Designation and Safety Classification of  
Refrigerants  
*Approved: 7/3/2014*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 34h-2011,  
Designation and Safety Classification of  
Refrigerants

*Approved: 2/3/2011*

*Manager of Standards*

*Attn: Jim Heldenbrand ASHRAE*

*1791 Tullie Circle, N.E.*

*Atlanta Ge 30329-5478*

ANSI/ASHRAE Addendum 34n-2015,  
Designation and Safety Classification of  
Refrigerants

*Approved: 1/29/2015*

*Manager of Standards*

*Attn: Jim Heldenbrand ASHRAE*

*1791 Tullie Circle, N.E.*

*Atlanta Ge 30329-5478*

ANSI/ASHRAE Addendum 34u-2012,  
Designation and Safety Classification of  
Refrigerants

*Approved: 1/26/2012*

*Manager of Standards*

*Attn: Jim Heldenbrand ASHRAE*

*1791 Tullie Circle, N.E.*

*Atlanta Ge 30329-5478*

ANSI/ASHRAE Addendum 34h-2014,  
Designation and Safety Classification of  
Refrigerants

*Approved: 7/3/2014*

*Manager of Standards*

*Attn: Jim Heldenbrand ASHRAE*

*1791 Tullie Circle, N.E.*

*Atlanta Ge 30329-5478*

ANSI/ASHRAE Addendum 34p-2012,  
Designation and Safety Classification of  
Refrigerants

*Approved: 1/26/2012*

*Manager of Standards*

*Attn: Jim Heldenbrand ASHRAE*

*1791 Tullie Circle, N.E.*

*Atlanta Ge 30329-5478*

ANSI/ASHRAE Addendum 34v-2012,  
Designation and Safety Classification of  
Refrigerants

*Approved: 1/26/2012*

*Manager of Standards*

*Attn: Jim Heldenbrand ASHRAE*

*1791 Tullie Circle, N.E.*

*Atlanta Ge 30329-5478*

ANSI/ASHRAE Addendum 34i-2014, Designation  
and Safety Classification of Refrigerants

*Approved: 7/3/2014*

*Manager of Standards*

*Attn: Jim Heldenbrand ASHRAE*

*1791 Tullie Circle, N.E.*

*Atlanta Ge 30329-5478*

ANSI/ASHRAE Addendum 34q-2012,  
Designation and Safety Classification of  
Refrigerants

*Approved: 1/26/2012*

*Manager of Standards*

*Attn: Jim Heldenbrand ASHRAE*

*1791 Tullie Circle, N.E.*

*Atlanta Ge 30329-5478*

ANSI/ASHRAE Addendum 34w-2013,  
Designation and Safety Classification of  
Refrigerants

*Approved: 6/27/2013*

*Manager of Standards*

*Attn: Jim Heldenbrand ASHRAE*

*1791 Tullie Circle, N.E.*

*Atlanta Ge 30329-5478*

ANSI/ASHRAE Addendum 34j-2015, Designation  
and Safety Classification of Refrigerants

*Approved: 1/29/2015*

*Manager of Standards*

*Attn: Jim Heldenbrand ASHRAE*

*1791 Tullie Circle, N.E.*

*Atlanta Ge 30329-5478*

ANSI/ASHRAE Addendum 34r-2012, Designation  
and Safety Classification of Refrigerants

*Approved: 1/26/2012*

*Manager of Standards*

*Attn: Jim Heldenbrand ASHRAE*

*1791 Tullie Circle, N.E.*

*Atlanta Ge 30329-5478*

ANSI/ASHRAE Addendum 34x-2009,  
Designation and Safety Classification of  
Refrigerants

*Approved: 1/29/2009*

*Manager of Standards*

*Attn: Jim Heldenbrand ASHRAE*

*1791 Tullie Circle, N.E.*

*Atlanta Ge 30329-5478*

ANSI/ASHRAE Addendum 34k-2015,  
Designation and Safety Classification of  
Refrigerants

*Approved: 1/29/2015*

*Manager of Standards*

*Attn: Jim Heldenbrand ASHRAE*

*1791 Tullie Circle, N.E.*

*Atlanta Ge 30329-5478*

ANSI/ASHRAE Addendum 34s-2012,  
Designation and Safety Classification of  
Refrigerants

*Approved: 1/26/2012*

*Manager of Standards*

*Attn: Jim Heldenbrand ASHRAE*

*1791 Tullie Circle, N.E.*

*Atlanta Ge 30329-5478*

ANSI/ASHRAE Addendum 34x-2013,  
Designation and Safety Classification of  
Refrigerants

*Approved: 6/27/2013*

*Manager of Standards*

*Attn: Jim Heldenbrand ASHRAE*

*1791 Tullie Circle, N.E.*

*Atlanta Ge 30329-5478*

ANSI/ASHRAE Addendum 34l-2015, Designation  
and Safety Classification of Refrigerants

*Approved: 1/29/2015*

*Manager of Standards*

*Attn: Jim Heldenbrand ASHRAE*

*1791 Tullie Circle, N.E.*

*Atlanta Ge 30329-5478*

ANSI/ASHRAE Addendum 34t-2012, Designation  
and Safety Classification of Refrigerants

*Approved: 1/26/2012*

*Manager of Standards*

*Attn: Jim Heldenbrand ASHRAE*

*1791 Tullie Circle, N.E.*

*Atlanta Ge 30329-5478*

ANSI/ASHRAE Addendum 34y-2009,  
Designation and Safety Classification of  
Refrigerants

*Approved: 1/29/2009*

*Manager of Standards*

*Attn: Jim Heldenbrand ASHRAE*

*1791 Tullie Circle, N.E.*

*Atlanta Ge 30329-5478*

ANSI/ASHRAE Addendum 34m-2015,  
Designation and Safety Classification of  
Refrigerants

*Approved: 1/29/2015*

*Manager of Standards*

*Attn: Jim Heldenbrand ASHRAE*

*1791 Tullie Circle, N.E.*

*Atlanta Ge 30329-5478*

ANSI/ASHRAE Addendum 34t-2019, Designation  
and Safety Classification of Refrigerants

*Approved: 7/24/2019*

*Manager of Standards*

*Attn: Jim Heldenbrand ASHRAE*

*1791 Tullie Circle, N.E.*

*Atlanta Ge 30329-5478*

ANSI/ASHRAE Addendum 34y-2012,  
Designation and Safety Classification of  
Refrigerants

*Approved: 1/26/2012*

*Manager of Standards*

*Attn: Jim Heldenbrand ASHRAE*

*1791 Tullie Circle, N.E.*

*Atlanta Ge 30329-5478*

ANSI/ASHRAE Addendum 34z-2010, Thermal Designation and Safety Classification of Refrigerants  
*Approved: 1/28/2010*

*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 55a-2014, Thermal Environmental Conditions For Human Occupancy  
*Approved: 7/31/2014*

*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 55a-2017, Thermal Environmental Conditions for Human Occupancy  
*Approved: 11/1/2017*

*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 55b-2012, Thermal Environmental Conditions for Human Occupancy  
*Approved: 1/26/2012*

*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 55b-2014, Thermal Environmental Conditions for Human Occupancy  
*Approved: 12/1/2014*

*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 55b-2019, Thermal Environmental Conditions for Human Occupancy  
*Approved: 5/31/2019*

*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 55c-2012, Thermal Environmental Conditions for Human Occupancy  
*Approved: 1/26/2012*

*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 55c-2017, Thermal Environmental Conditions for Human Occupancy  
*Approved: 5/1/2017*

*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 55d-2012, Thermal Environmental Conditions for Human Occupancy  
*Approved: 1/26/2012*

*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 55d-2015, Thermal Environmental Conditions for Human Occupancy  
*Approved: 6/1/2015*

*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 55e-2015, Thermal Environmental Conditions for Human Occupancy  
*Approved: 6/1/2015*

*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 55f-2012, Thermal Environmental Conditions for Human Occupancy  
*Approved: 11/22/2012*

*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 55f-2015, Thermal Environmental Conditions for Human Occupancy  
*Approved: 10/1/2015*

*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 55g-2013, Thermal Environmental Conditions for Human Occupancy  
*Approved: 2/27/2013*

*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 55h-2010, Thermal Environmental Conditions for Human Occupancy  
*Approved: 7/1/2010*

*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 55h-2013, Thermal Environmental Conditions for Human Occupancy  
*Approved: 1/30/2013*

*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 55i-2010, Thermal Environmental Conditions for Human Occupancy  
*Approved: 7/1/2010*

*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 55i-2013, Thermal Environmental Conditions for Human Occupancy  
*Approved: 6/27/2013*

*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 55j-2010, Thermal Environmental Conditions for Human Occupancy  
*Approved: 7/23/2010*

*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 55j-2013, Thermal Environmental Conditions for Human Occupancy  
*Approved: 4/16/2013*

*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 55k-2010, Thermal Environmental Conditions for Human Occupancy  
*Approved: 7/1/2010*

*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 55k-2013, Thermal Environmental Conditions for Human Occupancy  
*Approved: 6/27/2013*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 55l-2013, Thermal Environmental Conditions for Human Occupancy  
*Approved: 6/27/2013*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 55m-2013, Thermal Environmental Conditions for Human Occupancy  
*Approved: 6/27/2013*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 55n-2013, Thermal Environmental Conditions for Human Occupancy  
*Approved: 6/27/2013*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 55r-2013, Thermal Environmental Conditions for Human Occupancy  
*Approved: 6/27/2013*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 62.1a-2010, Ventilation for Acceptable Indoor Air Quality  
*Approved: 7/1/2010*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 62.1a-2014, Ventilation for Acceptable Indoor Air Quality  
*Approved: 10/29/2014*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 62.1ad-2019, Ventilation for Acceptable Indoor Air Quality  
*Approved: 8/26/2019*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 62.1ae-2019, Ventilation for Acceptable Indoor Air Quality  
*Approved: 8/26/2019*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 62.1af-2019, Ventilation for Acceptable Indoor Air Quality  
*Approved: 8/26/2019*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 62.1ah-2019, Ventilation for Acceptable Indoor Air Quality  
*Approved: 6/27/2019*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 62.1ai-2019, Ventilation for Acceptable Indoor Air Quality  
*Approved: 6/27/2019*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 62.1aj-2019, Ventilation for Acceptable Indoor Air Quality  
*Approved: 7/24/2019*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 62.1al-2019, Ventilation for Acceptable Indoor Air Quality  
*Approved: 8/26/2019*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 62.1am-2019, Ventilation for Acceptable Indoor Air Quality  
*Approved: 6/27/2019*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 62.1an-2019, Ventilation for Acceptable Indoor Air Quality  
*Approved: 8/26/2019*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 62.1ap-2019, Ventilation for Acceptable Indoor Air Quality  
*Approved: 6/27/2019*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 62.1aq-2019, Ventilation for Acceptable Indoor Air Quality  
*Approved: 7/24/2019*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 62.1ar-2019, Ventilation for Acceptable Indoor Air Quality  
*Approved: 6/27/2019*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 62.1as-2019, Ventilation for Acceptable Indoor Air Quality  
*Approved: 8/26/2019*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 62.1b-2018, Ventilation for Acceptable Indoor Air Quality  
*Approved: 10/1/2018*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 62.1b to Standard 62.1-2010, Ventilation for Acceptable Indoor Air Quality  
*Approved: 6/27/2013*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 62.1c-2011, Ventilation for Acceptable Indoor Air Quality  
*Approved: 2/3/2011*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 62.1d-2011,  
Ventilation for Acceptable Indoor Air Quality  
*Approved: 6/30/2011*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 62.1d-2015,  
Ventilation for Acceptable Indoor Air Quality  
*Approved: 7/2/2015*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 62.1d-2018,  
Ventilation for Acceptable Indoor Air Quality  
*Approved: 2/21/2018*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 62.1e-2011,  
Ventilation for Acceptable Indoor Air Quality  
*Approved: 6/30/2011*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 62.1e-2016,  
Ventilation for Acceptable Indoor Air Quality  
*Approved: 2/24/2016*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 62.1f-2016,  
Ventilation for Acceptable Indoor Air Quality  
*Approved: 1/28/2016*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 62.1g-2010,  
Ventilation for Acceptable Indoor Air Quality  
*Approved: 1/28/2010*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 62.1g-2016,  
Ventilation for Acceptable Indoor Air Quality  
*Approved: 1/28/2016*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 62.1h-2012,  
Ventilation for Acceptable Indoor Air Quality  
*Approved: 6/28/2012*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 62.1h-2016,  
Ventilation for Acceptable Indoor Air Quality  
*Approved: 2/24/2016*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 62.1i-2016,  
Ventilation for Acceptable Indoor Air Quality  
*Approved: 2/24/2016*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 62.1i-2019,  
Ventilation for Acceptable Indoor Air Quality  
*Approved: 7/24/2019*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 62.1j-2009,  
Ventilation for Acceptable Indoor Air Quality  
*Approved: 1/29/2009*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 62.1j-2013,  
Ventilation for Acceptable Indoor Air Quality  
*Approved: 12/5/2013*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 62.1k-2009 ,  
Ventilation for Acceptable Indoor Air Quality  
*Approved: 2/20/2009*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 62.1k-2014,  
Ventilation for Acceptable Indoor Air Quality  
*Approved: 7/3/2014*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 62.1k-2018,  
Ventilation for Acceptable Indoor Air Quality  
*Approved: 10/1/2018*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 62.1L-2019,  
Ventilation for Acceptable Indoor Air Quality  
*Approved: 8/26/2019*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 62.1m to Standard  
62.1-2010, Ventilation for Acceptable Indoor  
Air Quality  
*Approved: 6/27/2013*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 62.1n-2013,  
Ventilation for Acceptable Indoor Air Quality  
*Approved: 4/16/2013*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 62.1n-2019,  
Ventilation for Acceptable Indoor Air Quality  
*Approved: 7/24/2019*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 62.1p-2015,  
Ventilation for Acceptable Indoor Air Quality  
*Approved: 7/2/2015*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 62.1q-2010,  
Ventilation for Acceptable Indoor Air Quality  
*Approved: 1/28/2010*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 62.1q-2015,  
Ventilation for Acceptable Indoor Air Quality  
*Approved: 1/29/2015*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum 62.1r-2010,  
Ventilation for Acceptable Indoor Air Quality  
*Approved: 1/28/2010*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE Addendum 62.1r-2014,  
Ventilation for Acceptable Indoor Air Quality  
*Approved: 10/6/2014*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE Addendum 62.1s-2014,  
Ventilation for Acceptable Indoor Air Quality  
*Approved: 1/23/2014*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE Addendum 62.1s-2019,  
Ventilation for Acceptable Indoor Air Quality  
*Approved: 7/24/2019*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE Addendum 62.1t-2010,  
Ventilation for Acceptable Indoor Air Quality  
*Approved: 1/28/2010*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE Addendum 62.2a-2014,  
Ventilation and Acceptable Indoor Air Quality  
in Low-Rise Residential Buildings  
*Approved: 7/31/2014*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE Addendum 62.2b-2011,  
Ventilation and Acceptable Indoor Air Quality  
in Low-Rise Residential Buildings  
*Approved: 2/3/2011*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE Addendum 62.2b-2014,  
Ventilation and Acceptable Indoor Air Quality  
in Low-Rise Residential Buildings  
*Approved: 7/31/2014*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE Addendum 62.2b-2017,  
Ventilation and Acceptable Indoor Air Quality  
in Residential Buildings  
*Approved: 6/29/2017*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE Addendum 62.2c-2011,  
Ventilation and Acceptable Indoor Air Quality  
in Low-Rise Residential Buildings  
*Approved: 2/3/2011*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE Addendum 62.2c-2015,  
Ventilation and Acceptable Indoor Air Quality  
in Low-Rise Residential Buildings  
*Approved: 12/2/2015*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE Addendum 62.2C-2019,  
Ventilation and Acceptable Indoor Air Quality  
in Residential Buildings  
*Approved: 6/27/2019*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE Addendum 62.2d-2009,  
Ventilation and Acceptable Indoor Air Quality  
in Low-Rise Residential Buildings  
*Approved: 1/29/2009*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE Addendum 62.2d-2015,  
Ventilation and Acceptable Indoor Air Quality  
in Low-Rise Residential Buildings  
*Approved: 2/25/2015*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE Addendum 62.2d-2017,  
Ventilation and Acceptable Indoor Air Quality  
in Residential Buildings  
*Approved: 6/29/2017*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE Addendum 62.2e-2009,  
Ventilation and Acceptable Indoor Air Quality  
in Low-Rise Residential Buildings  
*Approved: 6/25/2009*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE Addendum 62.2e-2011,  
Ventilation and Acceptable Indoor Air Quality  
in Low-Rise Residential Buildings  
*Approved: 3/3/2011*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE Addendum 62.2e-2014,  
Ventilation and Acceptable Indoor Air Quality  
in Low-Rise Residential Buildings  
*Approved: 7/3/2014*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE Addendum 62.2f-2012,  
Ventilation and Acceptable Indoor Air Quality  
in Low-Rise Residential Buildings  
*Approved: 1/26/2012*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE Addendum 62.2f-2014,  
Ventilation and Acceptable Indoor Air Quality  
in Low-Rise Residential Buildings  
*Approved: 7/3/2014*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE Addendum 62.2g-2011,  
Ventilation and Acceptable Indoor Air Quality  
in Low-Rise Residential Buildings  
*Approved: 2/3/2011*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE Addendum 62.2g-2014,  
Ventilation and Acceptable Indoor Air Quality  
in Low-Rise Residential Buildings  
*Approved: 10/29/2014*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE Addendum 62.2h-2011,  
Ventilation and Acceptable Indoor Air Quality  
in Low-Rise Residential Buildings  
*Approved: 2/3/2011*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE Addendum 62.2h-2015,  
Ventilation and Acceptable Indoor Air Quality  
in Low-Rise Residential Buildings  
*Approved: 7/2/2015*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE Addendum 62.2h-2018,  
Ventilation and Acceptable Indoor Air Quality  
in Residential Buildings  
*Approved: 2/21/2018*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE Addendum 62.2i-2011,  
Ventilation and Acceptable Indoor Air Quality  
in Low-Rise Residential Buildings  
*Approved: 7/29/2011*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE Addendum 62.2j-2010,  
Ventilation and Acceptable Indoor Air Quality  
in Low-Rise Residential Buildings  
*Approved: 2/24/2010*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE Addendum 62.2j-2012,  
Ventilation and Acceptable Indoor Air Quality  
in Low-Rise Residential Buildings  
*Approved: 2/24/2012*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE Addendum 62.2j-2015,  
Ventilation and Acceptable Indoor Air Quality  
in Low-Rise Residential Buildings  
*Approved: 7/2/2015*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE Addendum 62.2j-2018,  
Ventilation and Acceptable Indoor Air Quality  
in Residential Buildings  
*Approved: 2/21/2018*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE Addendum 62.2k-2012,  
Ventilation and Acceptable Indoor Air Quality  
in Low-Rise Residential Buildings  
*Approved: 2/24/2012*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE Addendum 62.2L-2011,  
Ventilation and Acceptable Indoor Air Quality  
in Low-Rise Residential Buildings  
*Approved: 7/29/2011*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE Addendum 62.2L-2017,  
Ventilation and Acceptable Indoor Air Quality  
in Residential Buildings  
*Approved: 2/2/2017*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE Addendum 62.2m-2010,  
Ventilation and Acceptable Indoor Air Quality  
in Low-Rise Residential Buildings  
*Approved: 1/28/2010*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE Addendum 62.2m-2012,  
Ventilation and Acceptable Indoor Air Quality  
in Low-Rise Residential Buildings  
*Approved: 2/24/2012*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE Addendum 62.2m-2015,  
Ventilation and Acceptable Indoor Air Quality  
in Low-Rise Residential Buildings  
*Approved: 11/2/2015*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE Addendum 62.2m-2018,  
Ventilation and Acceptable Indoor Air Quality  
in Residential Buildings  
*Approved: 2/21/2018*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE Addendum 62.2n-2010,  
Ventilation and Acceptable Indoor Air Quality  
in Low-Rise Residential Buildings  
*Approved: 1/28/2010*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE Addendum 62.2n-2012,  
Ventilation and Acceptable Indoor Air Quality  
in Low-Rise Residential Buildings  
*Approved: 1/26/2012*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE Addendum 62.2n-2015,  
Ventilation and Acceptable Indoor Air Quality  
in Low-Rise Residential Buildings  
*Approved: 12/2/2015*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE Addendum 62.2o-2010,  
Ventilation and Acceptable Indoor Air Quality  
in Low-Rise Residential Buildings  
*Approved: 1/28/2010*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE Addendum 62.2o-2016,  
Ventilation and Acceptable Indoor Air Quality  
in Low-Rise Residential Buildings  
*Approved: 1/28/2016*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE Addendum 62.2p-2010,  
Ventilation and Acceptable Indoor Air Quality  
in Low-Rise Residential Buildings  
*Approved: 1/28/2010*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE Addendum 62.2p-2016,  
Ventilation and Acceptable Indoor Air Quality  
in Low-Rise Residential Buildings  
*Approved: 1/28/2016*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE Addendum 62.2q-2010,  
Ventilation and Acceptable Indoor Air Quality  
in Low-Rise Residential Buildings  
*Approved: 2/24/2010*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE Addendum 62.2q-2012,  
Ventilation and Acceptable Indoor Air Quality  
in Low-Rise Residential Buildings  
*Approved: 6/28/2012*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE Addendum 62.2r-2010,  
Ventilation and Acceptable Indoor Air Quality  
in Low-Rise Residential Buildings  
*Approved: 2/24/2010*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE Addendum 62.2r-2016,  
Ventilation and Acceptable Indoor Air Quality  
in Low-Rise Residential Buildings  
*Approved: 1/28/2016*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE Addendum 62.2s-2017,  
Ventilation and Acceptable Indoor Air Quality  
in Low-Rise Residential Buildings  
*Approved: 2/2/2017*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE Addendum 62.2t-2010,  
Ventilation and Acceptable Indoor Air Quality  
in Low-Rise Residential Buildings  
*Approved: 1/28/2010*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE Addendum 62.2t-2014,  
Ventilation and Acceptable Indoor Air Quality  
in Low-Rise Residential Buildings  
*Approved: 1/23/2014*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE Addendum 62.2t-2019,  
Ventilation and Acceptable Indoor Air Quality  
in Residential Buildings  
*Approved: 6/27/2019*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE Addendum 62.2u-2013,  
Ventilation and Acceptable Indoor Air Quality  
in Low-Rise Residential Buildings  
*Approved: 2/28/2013*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE Addendum 62.2v-2013,  
Ventilation and Acceptable Indoor Air Quality  
in Low-Rise Residential Buildings  
*Approved: 1/30/2013*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE Addendum 62.2w-2016,  
Ventilation and Acceptable Indoor Air Quality  
in Low-Rise Residential Buildings  
*Approved: 1/28/2016*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE Addendum 84a-2013, Method of  
Testing Air-to-Air Heat/Energy Exchangers  
*Approved: 6/27/2013*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE Addendum 90.2b-2010, Energy-  
Efficient Design Of Low-Rise Residential  
Buildings  
*Approved: 7/1/2010*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE Addendum 90.4d-2019, Energy  
Standard for Data Centers  
*Approved: 6/27/2019*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE Addendum a to ANSI/ASHRAE  
Standard 140-2014, Standard Method of Test  
for the Evaluation of Building Energy Analysis  
Computer Programs  
*Approved: 7/3/2014*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE Addendum a to ANSI/ASHRAE  
Standard 145.2-2014, Test Method for  
Assessing the Performance of Gas-Phase Air-  
Cleaning Systems: Air-Cleaning Devices  
*Approved: 7/3/2014*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE Addendum a to ANSI/ASHRAE  
Standard 161-2018, Air Quality within  
Commercial Aircraft  
*Approved: 1/17/2019*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE Addendum a to ANSI/ASHRAE  
Standard 185.1-2019, Method of Testing UV-  
C Lights for Use in Air-Handling Units or Air  
Ducts to Inactivate Airborne Microorganisms  
*Approved: 7/25/2019*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE Addendum a to ANSI/ASHRAE  
Standard 188-2018, Legionellosis: Risk  
Management for Building Water Systems  
*Approved: 1/17/2019*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE Addendum a to ANSI/ASHRAE  
Standard 200-2015, Methods of Testing  
Chilled Beams  
*Approved: 7/2/2015*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE Addendum a to ANSI/ASHRAE Standard 206-2014, Method of Test for Rating of Multi-Purpose Heat Pumps for Residential Space Conditioning and Water Heating

*Approved: 1/23/2014*

*Manager of Standards  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478*

ANSI/ASHRAE Addendum ak to ANSI/ASHRAE Standard 34-2010, Designation and Safety Classification of Refrigerants

*Approved: 7/24/2013*

*Manager of Standards  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478*

ANSI/ASHRAE Addendum ak to ANSI/ASHRAE Standard 34-2017, Designation and Safety Classification of Refrigerants

*Approved: 2/2/2017*

*Manager of Standards  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478*

ANSI/ASHRAE Addendum al to ANSI/ASHRAE Standard 34-2017, Designation and Safety Classification of Refrigerants

*Approved: 2/2/2017*

*Manager of Standards  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478*

ANSI/ASHRAE Addendum am to ANSI/ASHRAE Standard 34-20137, Designation and Safety Classification of Refrigerants

*Approved: 2/2/2017*

*Manager of Standards  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478*

ANSI/ASHRAE Addendum an to ANSI/ASHRAE Standard 135-2014, BACnet - A Data Communication Protocol for Building Automation and Control Networks

*Approved: 7/3/2014*

*Manager of Standards  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478*

ANSI/ASHRAE Addendum an to ANSI/ASHRAE Standard 34-2017, Designation and Safety Classification of Refrigerants

*Approved: 2/2/2017*

*Manager of Standards  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478*

ANSI/ASHRAE Addendum ao to ANSI/ASHRAE Standard 135-2012, BACnet - A Data Communication Protocol for Building Automation and Control Networks

*Approved: 10/27/2012*

*Manager of Standards  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478*

ANSI/ASHRAE Addendum ar to Standard 135-2013, BACnet - A Data Communication Protocol for Building Automation and Control Networks

*Approved: 1/30/2013*

*Manager of Standards  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478*

ANSI/ASHRAE Addendum at to ANSI/ASHRAE Standard 135-2014, BACnet - A Data Communication Protocol for Building Automation and Control Networks

*Approved: 7/3/2014*

*Manager of Standards  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478*

ANSI/ASHRAE Addendum au to ANSI/ASHRAE Standard 135-2014, BACnet - A Data Communication Protocol for Building Automation and Control Networks

*Approved: 7/3/2014*

*Manager of Standards  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478*

ANSI/ASHRAE Addendum av to ANSI/ASHRAE Standard 135-2014, BACnet - A Data Communication Protocol for Building Automation and Control Networks

*Approved: 7/3/2014*

*Manager of Standards  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478*

ANSI/ASHRAE Addendum aw to ANSI/ASHRAE Standard 135-2014, BACnet - A Data Communication Protocol for Building Automation and Control Networks

*Approved: 7/3/2014*

*Manager of Standards  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478*

ANSI/ASHRAE Addendum ax to ANSI/ASHRAE Standard 135-2014, BACnet - A Data Communication Protocol for Building Automation and Control Networks

*Approved: 7/3/2014*

*Manager of Standards  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478*

ANSI/ASHRAE Addendum az to ANSI/ASHRAE Standard 135-2014, BACnet - A Data Communication Protocol for Building Automation and Control Networks

*Approved: 7/3/2014*

*Manager of Standards  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478*

ANSI/ASHRAE Addendum b to ANSI/ASHRAE Standard 145.2-2014, Test Method for Assessing the Performance of Gas-Phase Air-Cleaning Systems: Air-Cleaning Devices

*Approved: 7/3/2014*

*Manager of Standards  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478*

ANSI/ASHRAE Addendum b to ANSI/ASHRAE Standard 15-2008, Safety Standard for Refrigeration Systems

*Approved: 1/24/2008*

*Manager of Standards  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478*

ANSI/ASHRAE Addendum b to ANSI/ASHRAE Standard 160-2012, Criteria for Moisture-Control Design Analysis in Buildings

*Approved: 10/27/2012*

*Manager of Standards  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478*

ANSI/ASHRAE Addendum b to ANSI/ASHRAE Standard 161-2018, Air Quality within Commercial Aircraft

*Approved: 1/17/2019*

*Manager of Standards  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478*

ANSI/ASHRAE Addendum b to ANSI/ASHRAE Standard 200-2015, Methods of Testing Chilled Beams

*Approved: 4/1/2017*

*Manager of Standards  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478*

ANSI/ASHRAE Addendum b to ANSI/ASHRAE Standard 206-2014, Method of Test for Rating of Multi-Purpose Heat Pumps for Residential Space Conditioning and Water Heating  
*Approved: 7/3/2014*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum b to ANSI/ASHRAE Standard 52.2-2014, Method of Testing General Ventilation Air Cleaning Devices for Removal Efficiency by Particle Size  
*Approved: 7/31/2014*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum br to ANSI/ASHRAE Standard 135-2019, BACnet - A Data Communication Protocol for Building Automation and Control Networks  
*Approved: 8/26/2019*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum bt to ANSI/ASHRAE Standard 135-2019, BACnet - A Data Communication Protocol for Building Automation and Control Networks  
*Approved: 8/26/2019*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum bu to ANSI/ASHRAE Standard 135-2019, BACnet - A Data Communication Protocol for Building Automation and Control Networks  
*Approved: 8/26/2019*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum bw to ANSI/ASHRAE Standard 135-2019, BACnet - A Data Communication Protocol for Building Automation and Control Networks  
*Approved: 8/26/2019*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum c Standard 52.2-2015, Method of Testing General Ventilation Air Cleaning Devices for Removal Efficiency by Particle Size  
*Approved: 7/28/2015*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum c to ANSI/ASHRAE Standard 145.2-2014, Test Method for Assessing the Performance of Gas-Phase Air-Cleaning Systems: Air-Cleaning Devices  
*Approved: 7/3/2014*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum c to ANSI/ASHRAE Standard 15-2007, Safety Standard for Refrigeration Systems  
*Approved: 6/26/2008*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum c to ANSI/ASHRAE Standard 161-2018, Air Quality within Commercial Aircraft  
*Approved: 1/17/2019*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum c to ANSI/ASHRAE Standard 206-2014, Method of Test for Rating of Multi-Purpose Heat Pumps for Residential Space Conditioning and Water Heating  
*Approved: 7/3/2014*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum d to ANSI/ASHRAE Standard 188-2017, Legionellosis: Risk Management for Building Water Systems  
*Approved: 2/2/2017*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum d to ANSI/ASHRAE Standard 52.2-2014, Method of Testing General Ventilation Air Cleaning Devices for Removal Efficiency by Particle Size  
*Approved: 7/3/2014*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum e to ANSI/ASHRAE Standard 15-2008, Safety Standard for Refrigeration Systems  
*Approved: 1/24/2008*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum f to ANSI/ASHRAE Standard 15-2017, Safety Standard for Refrigeration Systems  
*Approved: 2/2/2017*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum f to ANSI/ASHRAE Standard 62.1-2007, Ventilation for Acceptable Indoor Air Quality  
*Approved: 6/26/2008*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum g to 90.4-2019, Energy Standard for Data Centers  
*Approved: 6/27/2019*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum i to ANSI/ASHRAE Standard 135-2012, BACnet - A Data Communication Protocol for Building Automation and Control Networks  
*Approved: 10/27/2012*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum k to ANSI/ASHRAE Standard 135.1-2012, Method of Test for Conformance to BACnet  
*Approved: 10/27/2012*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum l Standard 135.1-2012, Method of Test for Conformance to BACnet  
*Approved: 1/26/2012*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum m to ANSI/ASHRAE Standard 135.1-2012, Method of Test for Conformance to BACnet  
*Approved: 10/27/2012*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum n to 135.1-2012, Method of Test for Conformance to BACnet  
*Approved: 1/26/2012*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum o to ANSI/ASHRAE Standard 55-2010, Thermal Environmental Conditions for Human Occupancy  
*Approved: 7/24/2013*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum o to ANSI/ASHRAE Standard 62.1-2010, Ventilation for Acceptable Indoor Air Quality  
*Approved: 7/24/2013*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum p to ANSI/ASHRAE Standard 34-2019, Designation and Safety Classification of Refrigerants  
*Approved: 8/26/2019*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum p to ANSI/ASHRAE Standard 55-2010, Thermal Environmental Conditions for Human Occupancy  
*Approved: 7/24/2013*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum q to ANSI/ASHRAE Standard 34-2016, Designation and Safety Classification of Refrigerants  
*Approved: 1/17/2019*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum q to ANSI/ASHRAE Standard 55-2010, Thermal Environmental Conditions for Human Occupancy  
*Approved: 7/24/2013*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum r to ANSI/ASHRAE Standard 34-2016, Designation and Safety Classification of Refrigerants  
*Approved: 1/17/2019*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum s to ANSI/ASHRAE Standard 34-2016, Designation and Safety Classification of Refrigerants  
*Approved: 1/17/2019*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum t to ANSI/ASHRAE Standard 62.1-2016, Ventilation for Acceptable Indoor Air Quality  
*Approved: 1/17/2019*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Addendum v to ANSI/ASHRAE Standard 34-2016, Designation and Safety Classification of Refrigerants  
*Approved: 1/17/2019*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 103-2017, Method of Testing for Annual Fuel Utilization Efficiency of Residential Central Furnaces and Boilers  
*Approved: 7/3/2017*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 105-2014, Standard Methods for Determining, Expressing and Comparing Building Energy Performance and Greenhouse Gas Emissions  
*Approved: 2/19/2014*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 110-2016, Method of Testing Performance of Laboratory Fume Hoods  
*Approved: 4/1/2016*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 111-2008 (R2017), Measurement, Testing, Adjusting and Balancing of Building HVAC Systems  
*Approved: 11/1/2017*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 113-2013, Method of Testing for Room Air Diffusion  
*Approved: 1/30/2013*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 116-2010, Methods of Testing for Rating Seasonal Efficiency of Unitary Air Conditioners and Heat Pumps  
*Approved: 2/24/2010*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 118.1-2012, Method of Testing for Rating Commercial Gas, Electric and Oil Service Water Heating Equipment  
*Approved: 10/27/2012*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 118.2-2006 (R2015), Method of Testing for Rating Residential Water Heaters  
*Approved: 7/2/2015*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 120-2017, Method of Testing to Determine Flow Resistance of HVAC Ducts and Fittings  
*Approved: 2/1/2017*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 124-2007 (R2016),  
Methods of Testing for Rating Combination  
Space-Heating and Water-Heating Appliances  
*Approved: 11/30/2016*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 125-2016, Method of  
Testing Thermal Energy Meters for Liquid  
Streams in HVAC Systems  
*Approved: 12/31/2015*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 127-2012, Method of  
Testing for Rating Computer and Data  
Processing Room Unitary Air Conditioners  
*Approved: 2/24/2012*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 128-2018, Method of  
Rating Portable Air Conditioners  
*Approved: 6/1/2018*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 130-2016, Laboratory  
Methods of Testing Air Terminal Units  
*Approved: 10/31/2016*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 133-2015, Method of  
Testing Direct Evaporative Air Coolers  
*Approved: 2/2/2015*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 135-2016, BACnet – A  
Data Communication Protocol for Building  
Automation and Control Networks  
*Approved: 12/19/1995*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 135.1-2013, Method of  
Testing Conformance to BACnet  
*Approved: 8/6/2003*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 135.1o-2014, Method  
of Test for Conformance to BACnet  
*Approved: 12/31/2014*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 137-2013 (R2017),  
Methods of Testing for Efficiency of Space-  
Conditioning/Water Heating Appliances that  
Include a Desuperheater Water Heater  
*Approved: 2/8/2017*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 138-2013 (R2016),  
Method of Testing for Rating Ceiling Panels  
for Sensible Heating and Cooling  
*Approved: 11/30/2016*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 139-2019, Method of  
Testing for Rating Desiccant Dehumidifiers  
Utilizing Heat for the Regeneration Process  
*Approved: 1/22/2019*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 140-2014, Method of  
Test for the Evaluation of Building Energy  
Analysis Computer Programs  
*Approved: 9/26/2001*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 140a-2017, Standard  
Method of Test for the Evaluation of Building  
Energy Analysis Computer Programs  
*Approved: 5/1/2017*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 143-2015, Method of  
Test for Rating Indirect Evaporative Coolers  
*Approved: 2/2/2015*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 145.1-2015, Laboratory  
Test Method for Assessing the Performance  
of Gas-Phase Air-Cleaning Systems: Loose  
Granular Media  
*Approved: 4/1/2015*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 145.2-2011, Laboratory  
Test Method for Assessing the Performance  
of Gas-Phase Air Cleaning Systems: Air  
Cleaning Devices  
*Approved: 7/27/2011*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 146-2011, Methods of  
Testing and Rating Pool Heaters  
*Approved: 2/3/2011*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 147-2013, Reducing the  
Release of Halogenated Refrigerants from  
Refrigerating and Air-Conditioning Equipment  
and Systems  
*Approved: 6/27/2013*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 15-2016, Safety Code  
for Mechanical Refrigeration  
*Approved: 8/23/2001*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 150-2019, Method of  
Testing the Performance of Cool Storage  
Systems  
*Approved: 5/31/2019*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 152-2014, Method of  
Test for Determining the Design and Seasonal  
Efficiencies of Residential Thermal  
Distribution Systems  
*Approved: 2/19/2014*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 153-2015, Method of Test for Mass Flow Capacity of Four-Way Refrigerant Reversing Valves

Approved: 5/1/2015

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 154-2016, Ventilation for Commercial Cooking Operations

Approved: 8/1/2016

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 158.1-2019, Methods of Testing Capacity of Refrigerant Solenoid Valves

Approved: 5/31/2019

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 15a-2018, Safety Standard for Refrigeration Systems

Approved: 6/28/2018

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 15c-2016, Safety Standard for Refrigeration Systems

Approved: 6/30/2016

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 15e-2016, Safety Standard for Refrigeration Systems

Approved: 6/30/2016

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 15e-2018, Safety Standard for Refrigeration Systems

Approved: 6/28/2018

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 15g-2016,  
ANSI/ASHRAE Standard 15-2013, Safety Standard for Refrigeration Systems

Approved: 6/30/2016

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 15h-2018, Safety Standard for Refrigeration Systems

Approved: 10/1/2018

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 16-2016, Method of Testing for Rating Room Air Conditioners, Packaged Terminal Air Conditioners and Packaged Terminal Heat Pumps for Cooling and Heating Capacity

Approved: 10/31/2016

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 160-2009, Criteria for Moisture-Control Design Analysis in Buildings

Approved: 1/29/2009

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 160d-2016, Criteria for Moisture-Control Design Analysis in Buildings

Approved: 8/1/2016

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 160e-2016, Criteria for Moisture-Control Design Analysis in Buildings

Approved: 11/30/2016

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 161-2018, Air Quality Within Commercial Aircraft

Approved: 4/2/2008

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 161a-2017, Air Quality within Commercial Aircraft

Approved: 3/2/2017

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 164.1-2012 (R2016), Method of Test for Residential Central-System Humidifiers

Approved: 12/31/2015

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 164.2-2012 (R2016), Method of Test for Self-Contained Residential Humidifiers

Approved: 12/31/2015

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 164.3-2015, Method of Test for Commercial and Industrial Isothermal Humidifiers

Approved: 3/2/2015

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 169-2013, Weather Data for Building Design Standards

Approved: 1/27/2006

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 17-2015, Method of Testing Capacity of Thermostatic Refrigerant Expansion Valves

Approved: 2/2/2015

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 170-2013, Ventilation of Health Care Facilities

Approved: 7/24/2008

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 171-2017, Method of Testing for Rating Seismic and Wind Restraints

Approved: 6/1/2017

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 172-2017, Method of Tests for Insoluble Materials in Synthetic Lubricants and HFC Refrigerant Systems

Approved: 4/1/2017

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 173-2012 (R2016),  
Method of Test to Determine the  
Performance of Halocarbon Refrigerant Leak  
Detectors  
*Approved: 12/31/2015*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 174-2018, Method of  
Test for Rating Desiccant-Based  
Dehumidification Equipment  
*Approved: 8/30/2018*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 18-2008 (R2013),  
Methods of Testing for Rating Drinking-Water  
Coolers with Self-Contained Mechanical  
Refrigeration  
*Approved: 1/30/2013*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 181-2018, Methods of  
Testing for Rating Liquid-to-Liquid Heat  
Exchangers  
*Approved: 5/1/2018*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 182-2008 (R2013),  
Method of Testing Absorption Water-Chilling  
and Water-Heating Packages  
*Approved: 6/27/2013*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 184-2016, Method of  
Test for Field Performance of Liquid-Chilling  
Systems  
*Approved: 10/31/2016*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 185.1-2015, Method of  
Testing UVC Lights for Use in Air Handling  
Units or Air Ducts to Inactivate Airborne  
Microorganisms  
*Approved: 4/1/2015*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 185.2-2014, Method of  
Testing Ultraviolet Lamps for Use in HVAC&R  
Units or Air Ducts to Inactivate  
Microorganisms on Irradiated Surfaces  
*Approved: 7/3/2014*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 188-2015, Legionellosis:  
Risk Management for Building Water Systems  
*Approved: 6/26/2015*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 190-2013, Method of  
Testing for Rating Indoor Pool Dehumidifiers  
*Approved: 5/3/2013*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 193-2010 (R2014),  
Method of Test for Determining Airtightness  
of HVAC Equipment  
*Approved: 1/23/2014*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 194-2017, Method of  
Test for Direct-Expansion Ground-Source  
Heat Pumps  
*Approved: 12/1/2017*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 195-2013, Method of  
Test for Rating Air Terminal Unit Controls  
*Approved: 6/27/2013*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 198-2013, Method of  
Test for Rating DX-Dedicated Outdoor Air  
Systems for Moisture Removal Capacity and  
Moisture Removal Efficiency  
*Approved: 1/30/2013*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 199-2016, Method of  
Testing the Performance of Industrial Pulse  
Cleaned Dust Collectors  
*Approved: 6/1/2016*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 20-1997 (R2016),  
Methods of Testing for Rating Remote  
Mechanical-Draft Air-Cooled Refrigerant  
Condensers  
*Approved: 6/1/2016*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 200-2018, Methods of  
Testing Chilled Beams  
*Approved: 12/7/2018*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 203-2018, Method of  
Test for Determining Heat Gain of Office  
Equipment Used in Buildings  
*Approved: 5/1/2018*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 206-2013 (R2017),  
Method of Testing for Rating of Multi-  
Purpose Heat Pumps for Residential Space  
Conditioning and Water Heating  
*Approved: 6/1/2017*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 209-2018, Energy  
Simulation Aided Design for Buildings except  
Low-Rise Residential Buildings  
*Approved: 4/2/2018*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 212-2019, Method of  
Test for Determining Energy Performance  
and Water-Use Efficiency of Add-On  
Evaporative Pre-Coolers for Unitary Air  
Conditioning Equipment  
*Approved: 6/25/2019*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 214-2017, Standard for Determining and Expressing Building Energy Performance in a Rating Program

Approved: 4/7/2017

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 215-2018, Method of Test to Determine Leakage of Operating HVAC Air Distribution Systems

Approved: 6/1/2018

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 218-2019, Method of Test for Lubricant and Refrigerant Miscibility Determination

Approved: 4/18/2019

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 22-2018, Methods of Testing for Rating Liquid-Cooled Refrigerant Condensers

Approved: 5/1/2018

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 23.1-2019, Methods for Performance Testing Positive Displacement Refrigerant Compressors and Condensing Units that Operate at Subcritical Pressures of the Refrigerant

Approved: 6/21/2019

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 23.2-2014, Method of Test for Rating the Performance of Positive Displacement Compressors that Operate at Supercritical Pressures of the Refrigerants

Approved: 7/3/2014

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 24-2019, Methods of Testing for Rating Evaporators Used for Cooling Liquids

Approved: 8/26/2019

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 25-2018, Methods of Testing Forced Circulation Free-Delivery Unit Coolers for Refrigeration

Approved: 12/17/2018

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 26-2010, Mechanical Refrigeration and Air-Conditioning Installations Aboard Ship

Approved: 7/1/2010

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 28-1996 (R2010), Method of Testing Flow Capacity of Refrigerant Capillary Tubes

Approved: 1/28/2010

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 29-2018, Methods of Testing Automatic Ice Makers

Approved: 10/29/2018

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 30-2019, Method of Testing Liquid Chillers

Approved: 5/1/2019

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 32.1-2017, Method of Testing for Rating Refrigerated Vending Machines for Sealed Beverages

Approved: 2/2/2017

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 32.2-2018, Methods of Testing for Rating Pre-Mix and Post-Mix Beverage Dispensing Equipment

Approved: 6/26/2018

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 33-2016, Methods of Testing Forced Circulation Air Cooling and Air Heating Coils

Approved: 4/1/2016

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 34-2016, Number Designation and Safety Classification of Refrigerants

Approved: 4/24/2001

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 34aa-2016, Designation and Safety Classification of Refrigerants

Approved: 7/27/2016

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 34ae-2016, Designation and Safety Classification of Refrigerants

Approved: 7/27/2016

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 34aj-2016, Designation and Safety Classification of Refrigerants

Approved: 7/27/2016

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 34g-2018, Designation and Safety Classification of Refrigerants

Approved: 6/28/2018

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 34i-2018, Designation and Safety Classification of Refrigerants

Approved: 6/28/2018

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 34o-2018, Designation and Safety Classification of Refrigerants

Approved: 6/28/2018

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 34w-2017, Designation and Safety Classification of Refrigerants

Approved: 3/2/2017

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 34x-2019, Designation and Safety Classification of Refrigerants

Approved: 6/27/2019

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 34y-2019, Designation and Safety Classification of Refrigerants

Approved: 6/27/2019

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 35-2014, Method of Testing Desiccants for Refrigerant Drying

Approved: 1/23/2014

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 37-2009 (R2019), Methods of Testing for Rating Electrically Driven Unitary Air-Conditioning and Heat Pump Equipment

Approved: 6/21/2019

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 40-2014, Methods of Testing for Rating Heat Operated Unitary Air-Conditioning and Heat-Pump Equipment

Approved: 1/23/2014

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 41.1-2013, Standard Method for Temperature Measurement

Approved: 1/30/2013

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 41.10-2013, Standard Methods for Volatile Refrigerant Mass Flow Measurement Using Flowmeters

Approved: 6/27/2013

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 41.11-2014, Standard Methods for Power Measurement

Approved: 7/3/2014

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 41.2-2018, Standard Methods for Air Velocity and Airflow Measurement

Approved: 6/1/2018

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 41.3-2014, Standard Methods for Pressure Measurement

Approved: 7/3/2014

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 41.4-2015, Standard Method for Measuring the Proportion of Lubricant in Liquid Refrigerant

Approved: 5/1/2015

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 41.6-2014, Standard Method for Humidity Measurement

Approved: 7/3/2014

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 41.7-2015 (R2018), Standard Methods for Gas Flow Measurement

Approved: 5/1/2018

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 41.8-2016 (R2019), Standard Methods for Liquid Flow Measurement

Approved: 5/1/2019

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 41.9-2018, Standard Methods for Refrigerant Mass Flow Measurements Using Calorimeters

Approved: 8/30/2018

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 52.2-2012, Method of Testing General Ventilation Air-Cleaning Devices for Removal Efficiency by Particle Size

Approved: 12/2/1999

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 52.2a-2018, Method of Testing General Ventilation Air Cleaning Devices for Removal Efficiency by Particle Size

Approved: 8/30/2018

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 55-2013, Thermal Environmental Conditions for Human Occupancy

Approved: 4/16/2004

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 62.1-2016, Ventilation for Acceptable Indoor Air Quality

Approved: 5/16/2001

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 62.2-2016, Ventilation and Acceptable Indoor Air Quality in Low-Rise Residential Buildings

Approved: 2/20/2004

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 63.2-2017, Method of Testing Liquid-Line Filter Drier Filtration Capability

Approved: 6/1/2017

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 64-2011, Methods of Laboratory Testing Remote Mechanical-Draft Evaporative Refrigerant Condensers  
*Approved: 2/3/2011*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 70-2006 (R2011), Method of Testing the Performance of Air Outlets and Air Inlets  
*Approved: 2/3/2011*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 72-2018, Method of Testing Open and Closed Commercial Refrigerators and Freezers  
*Approved: 8/1/2018*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 78-1985 (R2017), Method of Testing Flow Capacity of Suction Line Filters and Filter-Driers  
*Approved: 6/1/2017*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 79-2015, Method of Testing for Fan-Coil Units  
*Approved: 10/1/2015*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 84-2013, Method of Testing Air-to-Air Heat/Energy Exchangers  
*Approved: 1/30/2013*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 86-2013 (R2016), Methods of Testing the Floc Point of Refrigeration Grade Oils  
*Approved: 11/30/2016*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 90.2-2007, Energy Efficient Design of New Low-Rise Residential Buildings  
*Approved: 7/24/2001*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 90.4-2016, Energy Standard for Data Centers  
*Approved: 7/27/2016*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 94.2-2010, Method of Testing Thermal Storage Devices with Electrical Input and Thermal Output Based on Thermal Performance  
*Approved: 1/28/2010*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE Standard 97-2007 (R2017), Sealed Glass Tube Method to Test the Chemical Stability of Materials for Use within Refrigerant Systems  
*Approved: 6/1/2017*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/ACCA Addendum 180a-2012, Standard Practice for Inspection and Maintenance of Commercial Buildings HVAC Systems  
*Approved: 1/26/2012*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/ACCA Standard 180-2018, Standard Practice for Inspection and Maintenance of Commercial Building HVAC Systems  
*Approved: 6/11/2018*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/ACCA Standard 183-2007 (R2017), Peak Cooling and Heating Load Calculations in Buildings Except Low-Rise Residential Buildings  
*Approved: 11/1/2017*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/ACCA Standard 211-2018, Standard for Commercial Building Energy Audits  
*Approved: 5/1/2018*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/ASHE 170h-2016, Ventilation of Health Care Facilities  
*Approved: 6/1/2016*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/ASHE 170ad-2016, Ventilation of Health Care Facilities  
*Approved: 7/27/2016*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/ASHE 170d-2010, Ventilation of Health Care Facilities  
*Approved: 7/10/2010*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/ASHE 170f-2016, Ventilation of Health Care Facilities  
*Approved: 6/1/2016*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/ASHE 170g-2011, Ventilation of Health Care Facilities  
*Approved: 3/3/2011*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/ASHE 170m-2016, Ventilation of Health Care Facilities  
*Approved: 11/30/2016*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/ASHE 170r-2012, Ventilation of Health Care Facilities  
*Approved: 6/28/2012*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/ASHE Addendum 170a-2014,  
Ventilation of Health Care Facilities

Approved: 12/1/2014

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE/ASHE Addendum 170e-2014,  
Ventilation of Health Care Facilities

Approved: 12/1/2014

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE/ASHE Addendum 170y-2013,  
Ventilation of Health Care Facilities

Approved: 12/5/2013

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE/ASHE Addendum 170ac-2013,  
Ventilation of Health Care Facilities

Approved: 7/31/2013

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE/ASHE Addendum 170f-2016,  
Ventilation of Health Care Facilities

Approved: 6/1/2016

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE/ASHE Addendum a to  
ANSI/ASHRAE/ASHE Standard 189.3-2019,  
Design, Construction, and Operation of  
Sustainable High-Performance Health Care  
Facilities

Approved: 7/30/2019

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE/ASHE Addendum 170ae-2014,  
Ventilation of Health Care Facilities

Approved: 10/6/2014

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE/ASHE Addendum 170g-2015,  
Ventilation of Health Care Facilities

Approved: 10/1/2015

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE/ASHE Addendum ab to  
ANSI/ASHRAE/ASHE Standard 170-2008,  
Ventilation of Health Care Facilities

Approved: 7/24/2013

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE/ASHE Addendum 170b-2014,  
Ventilation of Health Care Facilities

Approved: 7/3/2014

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE/ASHE Addendum 170k-2016,  
Ventilation of Health Care Facilities

Approved: 8/1/2016

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE/ASHE Addendum u to  
ANSI/ASHRAE/ASHE Standard 170-2008,  
Ventilation of Health Care Facilities

Approved: 7/4/2013

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE/ASHE Addendum 170c-2016,  
Ventilation of Health Care Facilities

Approved: 6/1/2016

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE/ASHE Addendum 170L-2012,  
Ventilation of Health Care Facilities

Approved: 1/26/2012

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE/ASHE Addendum x to  
ANSI/ASHRAE/ASHE Standard 170-2008,  
Ventilation of Health Care Facilities

Approved: 7/24/2013

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE/ASHE Addendum 170c-2016a,  
Ventilation of Health Care Facilities

Approved: 6/1/2016

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE/ASHE Addendum 170M-2012,  
Ventilation of Health Care Facilities

Approved: 1/26/2012

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE/ASHE Addendum z to  
ANSI/ASHRAE/ASHE Standard 170-2008,  
Ventilation of Health Care Facilities

Approved: 7/24/2013

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE/ASHE Addendum 170c-2016b,  
Ventilation of Health Care Facilities

Approved: 6/1/2016

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE/ASHE Addendum 170p-2012,  
Ventilation of Health Care Facilities

Approved: 10/27/2012

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE/ASHE Addendum 170d-2015,  
Ventilation of Health Care Facilities

Approved: 6/1/2015

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE/ASHE Addendum 170w to  
Standard 170-2008, Ventilation of Health  
Care Facilities

Approved: 7/4/2013

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE/ASHE Standard 170b-2009,  
Ventilation of Health Care Facilities

Approved: 11/16/2009

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE/ASHE Standard 189.3-2017,  
Standard for the Design, Construction and  
Operation of Sustainable High-Performance  
Health Care Facilities  
*Approved: 4/1/2017*

*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/ICC/IES/USGBC 189.1ar-2018,  
Standard for the Design of High-Performance  
Green Buildings Except Low-Rise Residential  
Buildings  
*Approved: 2/21/2018*

*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/ICC/IES/USGBC 189.1i-2017,  
Standard for the Design of High-Performance  
Green Buildings Except Low-Rise Residential  
Buildings  
*Approved: 2/13/2017*

*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/ICC/IES/USGBC 189.1k-2017,  
Standard for the Design of High-Performance  
Green Buildings Except Low-Rise Residential  
Buildings  
*Approved: 3/2/2017*

*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/ICC/IES/USGBC 189.1L-2017,  
Standard for the Design of High-Performance  
Green Buildings Except Low-Rise Residential  
Buildings  
*Approved: 3/2/2017*

*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/ICC/IES/USGBC Standard 189.1ab  
-2017, Standard for the Design of High-  
Performance Green Buildings Except Low-  
Rise Residential Buildings  
*Approved: 2/13/2017*

*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/ICC/IES/USGBC Standard 189.1n  
-2017, Standard for the Design of High-  
Performance Green Buildings Except Low-  
Rise Residential Buildings  
*Approved: 2/13/2017*

*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/ICC/IES/USGBC Standard 189.1p  
-2017, Standard for the Design of High-  
Performance Green Buildings Except Low-  
Rise Residential Buildings  
*Approved: 2/13/2017*

*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/ICC/IES/USGBC Standard 189.1t  
-2017, Standard for the Design of High-  
Performance Green Buildings Except Low-  
Rise Residential Buildings  
*Approved: 2/13/2017*

*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/ICC/IES/USGBC Standard 189.1u  
-2017, Standard for the Design of High-  
Performance Green Buildings Except Low-  
Rise Residential Buildings  
*Approved: 2/13/2017*

*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/ICC/IES/USGBC Standard 189.1x  
-2017, Standard for the Design of High-  
Performance Green Buildings Except Low-  
Rise Residential Buildings  
*Approved: 2/13/2017*

*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/ICC/IES/USGBC Standard 189.1y  
-2017, Standard for the Design of High-  
Performance Green Buildings Except Low-  
Rise Residential Buildings  
*Approved: 2/13/2017*

*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/ICC/IES/USGBC Standard 189.1z  
-2017, Standard for the Design of High-  
Performance Green Buildings Except Low-  
Rise Residential Buildings  
*Approved: 2/13/2017*

*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/ICC/USGBC/IES 189.1.ax-2017,  
Standard for the Design of High-Performance  
Green Buildings Except Low-Rise Residential  
Buildings  
*Approved: 5/1/2017*

*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/ICC/USGBC/IES 189.1aa-2017,  
Standard for the Design of High-Performance  
Green Buildings Except Low-Rise Residential  
Buildings  
*Approved: 8/23/2017*

*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/ICC/USGBC/IES 189.1ac-2017,  
Standard for the Design of High-Performance  
Green Buildings Except Low-Rise Residential  
Buildings  
*Approved: 6/29/2017*

*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/ICC/USGBC/IES 189.1ad-2017,  
Standard for the Design of High-Performance  
Green Buildings Except Low-Rise Residential  
Buildings  
*Approved: 6/29/2017*

*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/ICC/USGBC/IES 189.1ae-2017,  
Standard for the Design of High-Performance  
Green Buildings Except Low-Rise Residential  
Buildings  
*Approved: 6/29/2017*

*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/ICC/USGBC/IES 189.1ag-2017,  
Standard for the Design of High-Performance  
Green Buildings Except Low-Rise Residential  
Buildings  
*Approved: 6/29/2017*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/ICC/USGBC/IES 189.1am-2017,  
Standard for the Design of High-Performance  
Green Buildings Except Low-Rise Residential  
Buildings  
*Approved: 6/29/2017*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/ICC/USGBC/IES 189.1aw-2017,  
Standard for the Design of High-Performance  
Green Buildings Except Low-Rise Residential  
Buildings  
*Approved: 8/23/2017*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/ICC/USGBC/IES 189.1ah-2017,  
Standard for the Design of High-Performance  
Green Buildings Except Low-Rise Residential  
Buildings  
*Approved: 5/1/2017*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/ICC/USGBC/IES 189.1ap-2017,  
Standard for the Design of High-Performance  
Green Buildings Except Low-Rise Residential  
Buildings  
*Approved: 5/1/2017*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/ICC/USGBC/IES 189.1ay-2017,  
Standard for the Design of High-Performance  
Green Buildings Except Low-Rise Residential  
Buildings  
*Approved: 8/23/2017*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/ICC/USGBC/IES 189.1ai-2017,  
Standard for the Design of High-Performance  
Green Buildings Except Low-Rise Residential  
Buildings  
*Approved: 7/27/2017*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/ICC/USGBC/IES 189.1aq-2017,  
Standard for the Design of High-Performance  
Green Buildings Except Low-Rise Residential  
Buildings  
*Approved: 8/23/2017*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/ICC/USGBC/IES 189.1az-2017,  
Standard for the Design of High-Performance  
Green Buildings Except Low-Rise Residential  
Buildings  
*Approved: 8/23/2017*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/ICC/USGBC/IES 189.1aj-2017,  
Standard for the Design of High-Performance  
Green Buildings Except Low-Rise Residential  
Buildings  
*Approved: 5/1/2017*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/ICC/USGBC/IES 189.1as-2017,  
Standard for the Design of High-Performance  
Green Buildings Except Low-Rise Residential  
Buildings  
*Approved: 9/12/2017*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/ICC/USGBC/IES 189.1ba-2017,  
Standard for the Design of High-Performance  
Green Buildings Except Low-Rise Residential  
Buildings  
*Approved: 5/1/2017*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/ICC/USGBC/IES 189.1ak-2017,  
Standard for the Design of High-Performance  
Green Buildings Except Low-Rise Residential  
Buildings  
*Approved: 8/23/2017*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/ICC/USGBC/IES 189.1au-2017,  
Standard for the Design of High-Performance  
Green Buildings Except Low-Rise Residential  
Buildings  
*Approved: 6/29/2017*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/ICC/USGBC/IES 189.1bb-2017,  
Standard for the Design of High-Performance  
Green Buildings Except Low-Rise Residential  
Buildings  
*Approved: 6/29/2017*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/ICC/USGBC/IES 189.1al-2017,  
Standard for the Design of High-Performance  
Green Buildings Except Low-Rise Residential  
Buildings  
*Approved: 7/27/2017*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/ICC/USGBC/IES 189.1av-2017,  
Standard for the Design of High-Performance  
Green Buildings Except Low-Rise Residential  
Buildings  
*Approved: 6/29/2017*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/ICC/USGBC/IES 189.1bd-2017,  
Standard for the Design of High-Performance  
Green Buildings Except Low-Rise Residential  
Buildings  
*Approved: 7/27/2017*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478



ANSI/ASHRAE/ICC/USGBC/IES 189.1ch-2017,  
Standard for the Design of High-Performance  
Green Buildings Except Low-Rise Residential  
Buildings  
*Approved: 7/27/2017*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/ICC/USGBC/IES 189.1ck-2018,  
Standard for the Design of High-Performance  
Green Buildings Except Low-Rise Residential  
Buildings  
*Approved: 6/28/2018*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/ICC/USGBC/IES 189.1cl-2017,  
Standard for the Design of High-Performance  
Green Buildings Except Low-Rise Residential  
Buildings  
*Approved: 7/27/2017*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/ICC/USGBC/IES 189.1o-2017,  
Standard for the Design of High-Performance  
Green Buildings Except Low-Rise Residential  
Buildings  
*Approved: 5/20/2017*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/ICC/USGBC/IES 189.1r-2017,  
Standard for the Design of High-Performance  
Green Buildings Except Low-Rise Residential  
Buildings  
*Approved: 7/27/2017*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/ICC/USGBC/IES 189.1s-2017,  
Standard for the Design of High-Performance  
Green Buildings Except Low-Rise Residential  
Buildings  
*Approved: 5/20/2017*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/ICC/USGBC/IES 189.1v-2017,  
Standard for the Design of High-Performance  
Green Buildings Except Low-Rise Residential  
Buildings  
*Approved: 5/1/2017*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/ICC/USGBC/IES 189.1w-2017,  
Standard for the Design of High-Performance  
Green Buildings Except Low-Rise Residential  
Buildings  
*Approved: 5/1/2017*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/ICC/USGBC/IES Addendum  
189.1a-2019, Standard for the Design of  
High-Performance Green Buildings Except  
Low-Rise Residential Buildings  
*Approved: 8/26/2019*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/ICC/USGBC/IES Addendum  
189.1b-2019, Standard for the Design of  
High-Performance Green Buildings Except  
Low-Rise Residential Buildings  
*Approved: 8/26/2019*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/ICC/USGBC/IES Addendum  
189.1bm-2019, Standard for the Design of  
High-Performance Green Buildings Except  
Low-Rise Residential Buildings  
*Approved: 7/24/2019*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/ICC/USGBC/IES 189.1bq-2017,  
Standard for the Design of High-Performance  
Green Buildings Except Low-Rise Residential  
Buildings  
*Approved: 6/29/2017*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES 100b-2017, Energy Efficiency  
in Existing Buildings  
*Approved: 7/24/2017*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES 189.1c-2015, Standard for  
the Design of High-Performance Green  
Buildings Except Low-Rise Residential  
Buildings  
*Approved: 11/2/2015*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES 202a-2017, Commissioning  
Process for Buildings and Systems  
*Approved: 8/1/2017*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES 202b-2018, Commissioning  
Process for Buildings and Systems  
*Approved: 2/1/2018*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES 90.1ai-2019, Energy Standard  
for Buildings Except Low-Rise Residential  
Buildings  
*Approved: 2/13/2019*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES 90.1aj-2019, Energy Standard  
for Buildings Except Low-Rise Residential  
Buildings  
*Approved: 2/13/2019*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES 90.1al-2019, Energy Standard  
for Buildings Except Low-Rise Residential  
Buildings  
*Approved: 7/1/2019*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES 90.1ba-2019, Energy  
Standard for Buildings Except Low-Rise  
Residential Buildings  
*Approved: 7/1/2019*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES 90.1bd-2019, Energy Standard for Buildings Except Low-Rise Residential Buildings

Approved: 7/1/2019

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE/IES 90.1bg-2019, Energy Standard for Buildings Except Low-Rise Residential Buildings

Approved: 2/13/2019

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE/IES 90.1bl-2019, Energy Standard for Buildings Except Low-Rise Residential Buildings

Approved: 7/1/2019

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE/IES 90.1m-2019, Energy Standard for Buildings Except Low-Rise Residential Buildings

Approved: 2/13/2019

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE/IES 90.dz-2016, Energy Standard for Buildings Except Low-Rise Residential Buildings

Approved: 8/30/2016

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addednum bv to ANSI/ASHRAE/IES Standard 90.1-2010, Energy Standard for Buildings Except Low-Rise Residential Buildings

Approved: 1/28/2010

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum 100a-2017, Energy Efficiency in Existing Buildings

Approved: 11/1/2017

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum 100c-2017, Energy Efficiency in Existing Buildings

Approved: 11/1/2017

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum 100d-2017, Energy Efficiency in Existing Buildings

Approved: 11/1/2017

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum 90.1an-2019, Energy Standard for Buildings Except Low-Rise Residential Buildings

Approved: 7/24/2019

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum 90.1ao-2019, Energy Standard for Buildings Except Low-Rise Residential Buildings

Approved: 7/24/2019

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum 90.1aq-2018, Energy Standard for Buildings Except Low-Rise Residential Buildings

Approved: 10/1/2018

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum 90.1at-2019, Energy Standard for Buildings Except Low-Rise Residential Buildings

Approved: 7/24/2019

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum 90.1aw-2019, Energy Standard for Buildings Except Low-Rise Residential Buildings

Approved: 7/24/2019

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum 90.1ay-2019, Energy Standard for Buildings Except Low-Rise Residential Buildings

Approved: 7/24/2019

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum 90.1bb-2019, Energy Standard for Buildings Except Low-Rise Residential Buildings

Approved: 7/24/2019

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum 90.1bf-2019, Energy Standard for Buildings Except Low-Rise Residential Buildings

Approved: 7/24/2019

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum 90.1bh-2019, Energy Standard for Buildings Except Low-Rise Residential Buildings

Approved: 7/1/2019

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum 90.1bi-2019, Energy Standard for Buildings Except Low-Rise Residential Buildings

Approved: 7/1/2019

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum 90.1bj-2019, Energy Standard for Buildings Except Low-Rise Residential Buildings

Approved: 7/1/2019

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum 90.1bk-2019, Energy Standard for Buildings Except Low-Rise Residential Buildings

Approved: 7/1/2019

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum 90.1bm-2019,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings

Approved: 8/19/2019

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum 90.1ca-2019,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings

Approved: 6/27/2019

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum 90.1cm-2019,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings

Approved: 8/19/2019

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum 90.1bn-2019,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings

Approved: 8/19/2019

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum 90.1cc-2019,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings

Approved: 6/27/2019

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum 90.1cn-2019,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings

Approved: 6/27/2019

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum 90.1bq-2019,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings

Approved: 7/1/2019

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum 90.1ce-2019,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings

Approved: 6/27/2019

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum 90.1co-2019,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings

Approved: 6/27/2019

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum 90.1bt-2019,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings

Approved: 6/27/2019

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum 90.1cg-2019,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings

Approved: 6/27/2019

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum 90.1t-2019,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings

Approved: 7/24/2019

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum 90.1bu-2019,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings

Approved: 8/19/2019

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum 90.1ch-2019,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings

Approved: 6/27/2019

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum 90.1v-2019,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings

Approved: 7/24/2019

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum 90.1bv-2019,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings

Approved: 8/19/2019

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum 90.1ci-2019,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings

Approved: 6/27/2019

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum 90.1Y-2019,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings

Approved: 7/1/2019

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum 90.1bx-2019,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings

Approved: 6/27/2019

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum 90.1cj-2019,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings

Approved: 6/27/2019

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum a to  
ANSI/ASHRAE/IES Standard 90.1-2012,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings

Approved: 1/26/2012

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum a to  
ANSI/ASHRAE/IES Standard 90.1-2014,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 10/29/2014*

*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum a to  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 1/25/2018*

*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum aa to  
ANSI/ASHRAE/IES Standard 90.1-2013,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 7/31/2013*

*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum aa to  
ANSI/ASHRAE/IES Standard 90.1-2015,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 6/26/2015*

*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum ab to  
ANSI/ASHRAE/IES Standard 90.1-2015,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 3/2/2015*

*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

BSR/ASHRAE/IES Addendum ab to  
ANSI/ASHRAE/IESNA Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 6/28/2018*

*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum ac to  
ANSI/ASHRAE/IES Standard 90.1-2014,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 10/6/2014*

*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum ac to  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 6/28/2018*

*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum ad to  
ANSI/ASHRAE/IES Standard 90.1-2015,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 6/26/2015*

*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum ad to  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 6/28/2018*

*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum ae to  
ANSI/ASHRAE/IES Standard 90.1-2013,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 8/28/2013*

*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum ae to  
ANSI/ASHRAE/IES Standard 90.1-2015,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 6/26/2015*

*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum ae to  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 6/28/2018*

*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum af  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 1/28/2016*

*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum af to  
ANSI/ASHRAE/IES Standard 90.1-2010,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 7/1/2013*

*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum af to  
ANSI/ASHRAE/IES Standard 90.1-2013,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 2/12/2013*

*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum ag to  
ANSI/ASHRAE/IES Standard 90.1-2009,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 6/25/2009*

*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum ag to  
ANSI/ASHRAE/IES Standard 90.1-2013,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 8/28/2013*

*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum ag to  
ANSI/ASHRAE/IES Standard 90.1-2015,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 6/26/2015*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum aj to  
ANSI/ASHRAE/IES Standard 90.1-2013,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 7/1/2013*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum al to  
ANSI/ASHRAE/IES Standard 90.1-2010,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 7/24/2013*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum ag to  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 6/28/2018*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum ak to  
ANSI/ASHRAE/IES Standard 90.1-2009,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 6/25/2009*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum am  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 1/28/2016*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum ah  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 1/28/2016*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum ak to  
ANSI/ASHRAE/IES Standard 90.1-2014,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 1/23/2014*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum am to  
ANSI/ASHRAE/IES Standard 90.1-2013,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 7/1/2013*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum ah to  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 6/28/2018*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum ak to  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 6/28/2018*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum am to  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 6/28/2018*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum ai  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 7/26/2016*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum al  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 2/24/2016*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum an  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 1/28/2016*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum aj  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 1/28/2016*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum al to  
ANSI/ASHRAE/IES Standard 90.1-2007,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 7/1/2010*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum an to  
ANSI/ASHRAE/IES Standard 90.1-2013,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 8/28/2013*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum ao  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 6/30/2016*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum ap  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 1/28/2016*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum ap to  
ANSI/ASHRAE/IES Standard 90.1-2013,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 5/3/2013*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum ap to  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 10/1/2018*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum aq  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 2/24/2016*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum aq to  
ANSI/ASHRAE/IES Standard 90.1-2010,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 7/23/2010*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum aq to  
ANSI/ASHRAE/IES Standard 90.1-2010,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 7/1/2013*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum ar  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 1/28/2016*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum ar to  
ANSI/ASHRAE/IES Standard 90.1-2010,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 2/24/2010*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum ar to  
ANSI/ASHRAE/IES Standard 90.1-2013,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 7/1/2013*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum ar to  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 10/1/2018*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum as  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 1/28/2016*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum as to  
ANSI/ASHRAE/IES Standard 90.1-2010,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 1/28/2010*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum at  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 1/28/2016*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum au  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 1/28/2016*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum au to  
ANSI/ASHRAE/IES Standard 90.1-2013,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 2/12/2013*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum au to  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 1/17/2019*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum av  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 1/28/2016*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum av to  
ANSI/ASHRAE/IES Standard 90.1-2010,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 7/24/2013*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum aw  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 1/28/2016*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum aw to  
ANSI/ASHRAE/IES Standard 90.1-2013,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 2/12/2013*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum ax to  
ANSI/ASHRAE/IES Standard 90.1-2013,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 7/1/2013*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum ay  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 8/30/2016*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum ay to  
ANSI/ASHRAE/IES Standard 90.1-2013,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 7/1/2013*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum az  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 1/28/2016*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum az to  
ANSI/ASHRAE/IES Standard 90.1-2013,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 2/12/2013*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum az to  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 1/17/2019*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum b-2011, Energy  
Standard for Buildings Except Low-Rise  
Residential Buildings  
*Approved: 6/30/2011*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum b to  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 6/29/2017*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum ba  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 2/24/2016*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum ba to  
ANSI/ASHRAE/IES Standard 90.1-2013,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 8/28/2013*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum bb-2012, Energy  
Standard for Buildings Except Low-Rise  
Residential Buildings  
*Approved: 4/27/2012*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum bb  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 1/28/2016*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum bc  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 1/28/2016*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum bc to  
ANSI/ASHRAE/IES Standard 90.1-2010,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 7/24/2013*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum bd  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 8/30/2016*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum bd to  
ANSI/ASHRAE/IES Standard 90.1-2013,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 7/1/2013*  
*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum be to  
ANSI/ASHRAE/IES Standard 90.1-2013,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 2/12/2013*  
*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum be to  
ANSI/ASHRAE/IES Standard 90.1-2019,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 8/19/2019*  
*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum bf to  
ANSI/ASHRAE/IES Standard 90.1-2013,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 8/28/2013*  
*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum bg to  
ANSI/ASHRAE/IES Standard 90.1-2013,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 7/1/2013*  
*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum bh  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 6/30/2016*  
*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum bh to  
ANSI/ASHRAE/IES Standard 90.1-2013,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 9/4/2013*  
*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum bi  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 6/30/2016*  
*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum bi to  
ANSI/ASHRAE/IES Standard 90.1-2010,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 7/1/2010*  
*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum bi to  
ANSI/ASHRAE/IES Standard 90.1-2013,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 7/1/2013*  
*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum bj  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 7/26/2016*  
*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum bj to  
ANSI/ASHRAE/IES Standard 90.1-2013,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 7/1/2013*  
*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum bk  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 6/30/2016*  
*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum bk to  
ANSI/ASHRAE/IES Standard 90.1-2013,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 2/12/2013*  
*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum bl  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 1/28/2016*  
*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum bl to  
ANSI/ASHRAE/IES Standard 90.1-2013,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 7/31/2013*  
*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum bm to  
ANSI/ASHRAE/IES Standard 90.1-2015,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 6/26/2015*  
*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum bn  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 9/28/2016*  
*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum bn to  
ANSI/ASHRAE/IES Standard 90.1-2013,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 9/4/2013*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum bp to  
ANSI/ASHRAE/IES Standard 90.1-2019,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 8/19/2019*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum bs  
ANSI/ASHRAE/IES Standard 90.1-2013,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 8/30/2016*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum bo  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 6/30/2016*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum bq  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 1/28/2016*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum bs  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 8/19/2019*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum bo to  
ANSI/ASHRAE/IES Standard 90.1-2013,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 9/4/2013*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum bq to  
ANSI/ASHRAE/IES Standard 90.1-2013,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 2/12/2013*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum bs to  
ANSI/ASHRAE/IES Standard 90.1-2010,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 7/23/2010*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum bo to  
ANSI/ASHRAE/IES Standard 90.1-2019,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 8/26/2019*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum br  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 1/28/2016*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum bs to  
ANSI/ASHRAE/IES Standard 90.1-2013,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 7/31/2013*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum bp  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 1/28/2016*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum br to  
ANSI/ASHRAE/IES Standard 90.1-2013,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 7/1/2013*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum bt  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 1/28/2016*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum bp to  
ANSI/ASHRAE/IES Standard 90.1-2013,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 7/31/2013*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum br to  
ANSI/ASHRAE/IES Standard 90.1-2019,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 8/19/2019*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum bt to  
ANSI/ASHRAE/IES Standard 90.1-2010,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 7/1/2010*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum bt to  
ANSI/ASHRAE/IES Standard 90.1-2010,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 7/24/2013*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum bu to  
ANSI/ASHRAE/IES Standard 90.1-2010,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 8/16/2010*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum bv  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 1/28/2016*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum bv to  
ANSI/ASHRAE/IES Standard 90.1-2013,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 7/1/2013*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum bw  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 7/26/2016*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum bw to  
ANSI/ASHRAE/IES Standard 90.1-2010,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 1/28/2010*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum bw to  
ANSI/ASHRAE/IES Standard 90.1-2013,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 8/28/2013*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum bx  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 1/28/2016*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum bx to  
ANSI/ASHRAE/IES Standard 90.1-2010,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 7/1/2010*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum bx to  
ANSI/ASHRAE/IES Standard 90.1-2013,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 2/12/2013*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum by  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 1/28/2016*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum by to  
ANSI/ASHRAE/IES Standard 90.1-2010,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 7/1/2010*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum by to  
ANSI/ASHRAE/IES Standard 90.1-2013,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 8/28/2013*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum bz-2012, Energy  
Standard for Buildings Except Low-Rise  
Residential Buildings  
*Approved: 2/24/2012*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum bz  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 9/28/2016*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum bz to Standard  
90.1-2019, Energy Standard for Buildings  
Except Low-Rise Residential Buildings  
*Approved: 6/27/2019*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum c-2011, Energy  
Standard for Buildings Except Low-Rise  
Residential Buildings  
*Approved: 6/30/2011*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum c to  
ANSI/ASHRAE/IES Standard 90.1-2014,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 10/6/2014*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum c to  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 6/29/2017*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum ca  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 6/30/2016*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum cc  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 1/28/2016*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum ce to  
ANSI/ASHRAE/IES Standard 90.1-2010,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 7/23/2010*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum ca to  
ANSI/ASHRAE/IES Standard 90.1-2010,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 7/1/2010*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum cc to  
ANSI/ASHRAE/IES Standard 90.1-2010,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 7/1/2010*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum ce to  
ANSI/ASHRAE/IES Standard 90.1-2013,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 7/1/2013*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum ca to  
ANSI/ASHRAE/IES Standard 90.1-2013,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 7/1/2013*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum cc to  
ANSI/ASHRAE/IES Standard 90.1-2013,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 7/1/2013*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum cf  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 8/30/2016*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum cb  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 8/30/2016*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum cd  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 10/7/2016*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum cf to  
ANSI/ASHRAE/IES Standard 90.1-2010,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 8/16/2010*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum cb to  
ANSI/ASHRAE/IES Standard 90.1-2010,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 7/1/2010*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum cd to  
ANSI/ASHRAE/IES Standard 90.1-2013,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 8/28/2013*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum cf to  
ANSI/ASHRAE/IES Standard 90.1-2013,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 8/28/2013*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum cb to  
ANSI/ASHRAE/IES Standard 90.1-2013,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 8/28/2013*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum ce  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 2/24/2016*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum cf to  
ANSI/ASHRAE/IES Standard 90.1-2019,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 8/19/2019*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum cg  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 7/26/2016*  
*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum cg to  
ANSI/ASHRAE/IES Standard 90.1-2012,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 1/26/2012*  
*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum ch  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 9/28/2016*  
*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum ch to  
ANSI/ASHRAE/IES Standard 90.1-2010,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 7/1/2010*  
*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum ch to  
ANSI/ASHRAE/IES Standard 90.1-2010,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 7/1/2013*  
*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum ci-2011, Energy  
Standard for Buildings Except Low-Rise  
Residential Buildings  
*Approved: 6/30/2011*  
*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum ci  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 1/28/2016*  
*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum cj  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 1/28/2016*  
*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum cj to  
ANSI/ASHRAE/IES Standard 90.1-2010,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 7/24/2013*  
*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum ck  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 1/28/2016*  
*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum ck to  
ANSI/ASHRAE/IES Standard 90.1-2010,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 7/23/2010*  
*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum ck to  
ANSI/ASHRAE/IES Standard 90.1-2010,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 7/1/2013*  
*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum cl  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 7/26/2016*  
*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum cl to  
ANSI/ASHRAE/IES Standard 90.1-2010,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 7/1/2010*  
*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum CL to  
ANSI/ASHRAE/IES Standard 90.1-2013,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 7/31/2013*  
*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum cl to  
ANSI/ASHRAE/IES Standard 90.1-2019,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 8/26/2019*  
*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum cm  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 8/30/2016*  
*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum cm to  
ANSI/ASHRAE/IES Standard 90.1-2010,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 7/24/2010*  
*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum cn  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 6/30/2016*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum cn to  
ANSI/ASHRAE/IES Standard 90.1-2010,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 7/1/2013*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum co  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 6/30/2016*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum co to  
ANSI/ASHRAE/IES Standard 90.1-2013,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 7/31/2013*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum cp  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 6/30/2016*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum cp to  
ANSI/ASHRAE/IES Standard 90.1-2010,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 7/1/2013*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum cq  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 6/30/2016*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum cq to  
ANSI/ASHRAE/IES Standard 90.1-2019,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 8/19/2019*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum cr to  
ANSI/ASHRAE/IES Standard 90.1-2013,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 7/31/2013*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum ct  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 6/30/2016*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum ct to  
ANSI/ASHRAE/IES Standard 90.1-2013,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 7/31/2013*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum ct to  
ANSI/ASHRAE/IES Standard 90.1-2019,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 8/19/2019*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum cu to  
ANSI/ASHRAE/IES Standard 90.1-2019,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 8/19/2019*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum cv  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 6/30/2016*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum cv to  
ANSI/ASHRAE/IES Standard 90.1-2013,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 7/31/2013*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum cv to  
ANSI/ASHRAE/IES Standard 90.1-2019,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 8/26/2019*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum cw to  
ANSI/ASHRAE/IES Standard 90.1-2019,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 8/26/2019*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum cy  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 10/7/2016*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum cy to  
ANSI/ASHRAE/IES Standard 90.1-2013,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 7/31/2013*  
*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum cy to  
ANSI/ASHRAE/IES Standard 90.1-2019,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 8/19/2019*  
*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum cz to  
ANSI/ASHRAE/IES Standard 90.1-2013,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 7/31/2013*  
*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum d to  
ANSI/ASHRAE/IES Standard 90.1-2014,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 10/6/2014*  
*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum d to  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 6/29/2017*  
*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum da  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 6/30/2016*  
*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum da to  
ANSI/ASHRAE/IES Standard 90.1-2013,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 8/28/2013*  
*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum db  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 6/30/2016*  
*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum db to  
ANSI/ASHRAE/IES Standard 90.1-2010,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 7/1/2010*  
*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum db to  
ANSI/ASHRAE/IES Standard 90.1-2013,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 7/31/2013*  
*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum dc  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 6/30/2016*  
*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum dc to  
ANSI/ASHRAE/IES Standard 90.1-2013,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 7/31/2013*  
*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum dd  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 6/30/2016*  
*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum dd to  
ANSI/ASHRAE/IES Standard 90.1-2013,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 7/31/2013*  
*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum de  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 8/30/2016*  
*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum de to  
ANSI/ASHRAE/IES Standard 90.1-2010,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 7/24/2010*  
*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum de to  
ANSI/ASHRAE/IES Standard 90.1-2013,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 7/31/2013*  
*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum df to  
ANSI/ASHRAE/IES Standard 90.1-2010,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 8/16/2010*  
*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum dg  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 6/30/2016*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum di to  
ANSI/ASHRAE/IES Standard 90.1-2013,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 7/31/2013*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum dl  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 8/30/2016*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum dg to  
ANSI/ASHRAE/IES Standard 90.1-2010,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 7/24/2010*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum dj to  
ANSI/ASHRAE/IES Standard 90.1-2010,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 7/24/2010*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum dl to  
ANSI/ASHRAE/IES Standard 90.1-2010,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 8/16/2010*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum dg to  
ANSI/ASHRAE/IES Standard 90.1-2013,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 7/31/2013*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum dj to  
ANSI/ASHRAE/IES Standard 90.1-2013,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 7/31/2013*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum dl to  
ANSI/ASHRAE/IES Standard 90.1-2013,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 8/28/2013*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum dh  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 6/30/2016*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum dk  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 6/30/2016*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum dm  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 8/30/2016*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum di  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 6/30/2016*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum dk to  
ANSI/ASHRAE/IES Standard 90.1-2010,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 7/24/2010*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum dm to  
ANSI/ASHRAE/IES Standard 90.1-2013,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 2/12/2013*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum di to  
ANSI/ASHRAE/IES Standard 90.1-2010,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 8/16/2010*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum dk to  
ANSI/ASHRAE/IES Standard 90.1-2013,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 8/28/2013*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum dn to  
ANSI/ASHRAE/IES Standard 90.1-2010,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 7/24/2010*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum dn to  
ANSI/ASHRAE/IES Standard 90.1-2013,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 7/31/2013*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum dn to  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 1/17/2019*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum do  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 8/30/2016*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum do to  
ANSI/ASHRAE/IES Standard 90.1-2010,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 7/24/2010*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum do to  
ANSI/ASHRAE/IES Standard 90.1-2013,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 7/31/2013*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum dp  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 6/30/2016*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum dp to  
ANSI/ASHRAE/IES Standard 90.1-2013,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 7/31/2013*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum dq  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 6/30/2016*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum dq to  
ANSI/ASHRAE/IES Standard 90.1-2010,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 7/24/2010*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum dq to  
ANSI/ASHRAE/IES Standard 90.1-2013,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 7/31/2013*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum dr  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 6/30/2016*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum dr to  
ANSI/ASHRAE/IES Standard 90.1-2010,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 7/24/2010*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum dr to  
ANSI/ASHRAE/IES Standard 90.1-2013,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 7/31/2013*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum ds-2011, Energy  
Standard for Buildings Except Low-Rise  
Residential Buildings  
*Approved: 6/30/2011*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum ds  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 6/30/2016*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum dt  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 8/30/2016*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum dt to  
ANSI/ASHRAE/IES Standard 90.1-2013,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 7/31/2013*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum du  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 1/28/2016*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum dv  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 6/30/2016*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum e to  
ANSI/ASHRAE/IES Standard 90.1-2015,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 6/26/2015*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum ef  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 8/30/2016*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum dv to  
ANSI/ASHRAE/IES Standard 90.1-2013,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 7/31/2013*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum e to  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 6/29/2017*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum eg  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 8/30/2016*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum dw  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 8/30/2016*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum ea  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 8/30/2016*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum ej  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 8/30/2016*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum dw to  
ANSI/ASHRAE/IES Standard 90.1-2013,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 7/31/2013*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum eb  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 8/30/2016*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum ek  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 8/30/2016*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum dx to  
ANSI/ASHRAE/IES Standard 90.1-2013,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 7/31/2013*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum ec  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 8/30/2016*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum el  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 8/30/2016*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum e-2012, Energy  
Standard for Buildings Except Low-Rise  
Residential Buildings  
*Approved: 7/26/2012*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum ed  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 8/30/2016*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum f  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 1/28/2016*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/IES Addendum f to  
ANSI/ASHRAE/IES Standard 90.1-2010,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 7/23/2010*  
*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum f to  
ANSI/ASHRAE/IES Standard 90.1-2010,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 7/24/2013*  
*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum f to  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 6/29/2017*  
*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum g-2011, Energy  
Standard for Buildings Except Low-Rise  
Residential Buildings  
*Approved: 6/30/2011*  
*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum g to  
ANSI/ASHRAE/IES Standard 90.1-2014,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 10/6/2014*  
*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum g to  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 1/25/2018*  
*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum h-2011, Energy  
Standard for Buildings Except Low-Rise  
Residential Buildings  
*Approved: 6/30/2011*  
*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum h to  
ANSI/ASHRAE/IES Standard 90.1-2014,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 10/6/2014*  
*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum h to  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 1/25/2018*  
*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum i  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 8/30/2016*  
*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum i to  
ANSI/ASHRAE/IES Standard 90.1-2013,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 2/12/2013*  
*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum j-2011, Energy  
Standard for Buildings Except Low-Rise  
Residential Buildings  
*Approved: 6/30/2011*  
*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum j to  
ANSI/ASHRAE/IES Standard 90.1-2015,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 1/29/2015*  
*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum j to  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 6/29/2017*  
*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum k-2011, Energy  
Standard for Buildings Except Low-Rise  
Residential Buildings  
*Approved: 6/30/2011*  
*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum k to  
ANSI/ASHRAE/IES Standard 90.1-2015,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 1/29/2015*  
*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum k to  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 7/25/2018*  
*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum L  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 9/16/2016*  
*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum l to  
ANSI/ASHRAE/IES Standard 90.1-2012,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 6/28/2012*  
*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum L to  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 1/25/2018*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum m to  
ANSI/ASHRAE/IES Standard 90.1-2012,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 6/28/2012*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum m to  
ANSI/ASHRAE/IES Standard 90.1-2015,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 1/29/2015*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum n to  
ANSI/ASHRAE/IES Standard 90.1-2012,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 6/28/2012*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum n to  
ANSI/ASHRAE/IES Standard 90.1-2015,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 6/26/2015*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum N to  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 1/25/2018*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum o to  
ANSI/ASHRAE/IES Standard 90.1-2012,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 1/26/2012*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum o to  
ANSI/ASHRAE/IES Standard 90.1-2015,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 1/29/2015*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum o to  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 6/28/2018*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum p to  
ANSI/ASHRAE/IES Standard 90.1-2012,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 1/26/2012*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum p to  
ANSI/ASHRAE/IES Standard 90.1-2015,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 1/29/2015*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum P to  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 1/25/2018*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum q to  
ANSI/ASHRAE/IES Standard 90.1-2012,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 6/28/2012*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum q to  
ANSI/ASHRAE/IES Standard 90.1-2015,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 6/26/2015*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum q to  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 12/7/2018*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum r to  
ANSI/ASHRAE/IES Standard 90.1-2013,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 7/31/2013*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum r to  
ANSI/ASHRAE/IES Standard 90.1-2015,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 1/29/2015*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum R to  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 1/25/2018*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum s to  
ANSI/ASHRAE/IES Standard 90.1-2012,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 1/26/2012*  
*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum s to  
ANSI/ASHRAE/IES Standard 90.1-2015,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 1/29/2015*  
*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum s to  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 12/7/2018*  
*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum u  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 7/26/2016*  
*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum u to  
ANSI/ASHRAE/IES Standard 90.1-2013,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 2/12/2013*  
*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum v  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 1/28/2016*  
*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum v to  
ANSI/ASHRAE/IES Standard 90.1-2013,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 2/28/2013*  
*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum w  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 1/28/2016*  
*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum w to  
ANSI/ASHRAE/IES Standard 90.1-2010,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 7/24/2013*  
*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum x to  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 6/28/2018*  
*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum y to  
ANSI/ASHRAE/IES Standard 90.1-2012,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 1/26/2012*  
*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum z to  
ANSI/ASHRAE/IES Standard 90.1-2012,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 1/26/2012*  
*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum z to  
ANSI/ASHRAE/IES Standard 90.1-2015,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 6/26/2015*  
*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Addendum z to  
ANSI/ASHRAE/IES Standard 90.1-2016,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 10/1/2018*  
*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Standard 100-2015, Energy  
Efficiency in Existing Buildings  
*Approved: 2/2/2015*  
*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Standard 202-2013,  
Commissioning Process for Buildings and  
Systems  
*Approved: 7/1/2013*  
*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Standard 90.1dp-2010,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 7/24/2010*  
*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IES Standard 90.2-2018, Energy-  
Efficient Design of Low-Rise Residential  
Buildings  
*Approved: 12/7/2018*  
*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IESNA 90.2c-2007, Energy  
Efficient Design of Low-Rise Residential  
Buildings  
*Approved: 3/3/2007*  
*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IESNA 90.2d-2007, Energy Efficient Design of Low-Rise Residential Buildings

Approved: 3/3/2007

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE/IESNA 90.2e-2007, Energy Efficient Design of Low-Rise Residential Buildings

Approved: 3/3/2007

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE/IESNA Addendum 90.1cd-2010, Energy Standard for Buildings Except Low-Rise Residential Buildings

Approved: 7/24/2010

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE/IESNA Addendum 90.1cn-2010, Energy Standard for Buildings Except Low-Rise Residential Buildings

Approved: 8/16/2010

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE/IESNA Addendum 90.1co-2010, Energy Standard for Buildings Except Low-Rise Residential Buildings

Approved: 7/24/2010

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE/IESNA Addendum 90.1cp-2010, Energy Standard for Buildings Except Low-Rise Residential Buildings

Approved: 7/23/2010

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE/IESNA Addendum 90.1cq-2010, Energy Standard for Buildings Except Low-Rise Residential Buildings

Approved: 8/16/2010

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE/IESNA Addendum 90.1cr-2010, Energy Standard for Buildings Except Low-Rise Residential Buildings

Approved: 7/13/2010

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE/IESNA Addendum 90.1cs-2010, Energy Standard for Buildings Except Low-Rise Residential Buildings

Approved: 7/1/2010

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE/IESNA Addendum 90.1ct-2010, Energy Standard for Buildings Except Low-Rise Residential Buildings

Approved: 7/24/2010

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE/IESNA Addendum 90.1cv-2010, Energy Standard for Buildings Except Low-Rise Residential Buildings

Approved: 7/24/2010

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE/IESNA Addendum 90.1cw-2010, Energy Standard for Buildings Except Low-Rise Residential Buildings

Approved: 7/1/2010

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE/IESNA Addendum 90.1cy-2010, Energy Standard for Buildings Except Low-Rise Residential Buildings

Approved: 8/17/2010

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE/IESNA Addendum 90.1cz-2010, Energy Standard for Buildings Except Low-Rise Residential Buildings

Approved: 7/1/2010

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE/IESNA Addendum 90.1da-2010, Energy Standard for Buildings Except Low-Rise Residential Buildings

Approved: 7/1/2010

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE/IESNA Addendum 90.1dc-2010, Energy Standard for Buildings Except Low-Rise Residential Buildings

Approved: 7/23/2010

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE/IESNA Addendum 90.1dd-2010, Energy Standard for Buildings Except Low-Rise Residential Buildings

Approved: 8/16/2010

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE/IESNA Addendum a-2006, Energy Standard for Buildings Except Low-Rise Residential Buildings

Approved: 4/10/2006

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE/IESNA Addendum a-2007, Energy Standard for Buildings Except Low-Rise Residential Buildings

Approved: 7/25/2007

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE/IESNA Addendum aa-2007, Energy Standard for Buildings Except Low-Rise Residential Buildings

Approved: 3/3/2007

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE/IESNA Addendum aa-2009, Energy Standard for Buildings Except Low-Rise Residential Buildings

Approved: 7/22/2009

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE/IESNA Addendum ab-2007,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 3/3/2007*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IESNA Addendum ab-2009,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 7/22/2009*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IESNA Addendum ac-2004,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 7/1/2004*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IESNA Addendum ac-2007,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 3/27/2007*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IESNA Addendum ac-2008,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 7/24/2008*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IESNA Addendum ad-2005,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 3/11/2005*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IESNA Addendum ad-2008,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 7/24/2008*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IESNA Addendum ad-2012,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 6/28/2012*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IESNA Addendum ae-2004,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 7/1/2004*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IESNA Addendum ae-2007,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 3/27/2007*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IESNA Addendum ae-2009,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 7/22/2009*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IESNA Addendum af-2009,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 1/29/2009*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IESNA Addendum ag-2007,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 3/3/2007*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IESNA Addendum ah-2007,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 3/3/2007*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IESNA Addendum ah-2012,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 6/28/2012*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IESNA Addendum ai-2009,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 6/25/2009*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IESNA Addendum ai-2012,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 6/28/2012*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IESNA Addendum aj-2009,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 6/25/2009*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IESNA Addendum ak-2005,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 8/3/2005*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IESNA Addendum al-2007,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 3/3/2007*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IESNA Addendum am-2010,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 7/23/2010*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IESNA Addendum an-2009,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings

Approved: 1/29/2009

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE/IESNA Addendum at-2012,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings

Approved: 6/28/2012

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE/IESNA Addendum az-2010,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings

Approved: 1/28/2010

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE/IESNA Addendum ao-2009,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings

Approved: 1/29/2009

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE/IESNA Addendum au-2009,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings

Approved: 7/22/2009

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE/IESNA Addendum ba-2009,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings

Approved: 7/22/2009

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE/IESNA Addendum ap-2009,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings

Approved: 1/29/2009

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE/IESNA Addendum av-2007,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings

Approved: 3/3/2007

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE/IESNA Addendum bc-2009,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings

Approved: 6/25/2009

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE/IESNA Addendum ar-2007,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings

Approved: 3/3/2007

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE/IESNA Addendum av-2010,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings

Approved: 2/24/2010

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE/IESNA Addendum bd-2009,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings

Approved: 6/25/2009

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE/IESNA Addendum as-2007,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings

Approved: 12/14/2007

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE/IESNA Addendum aw-2008,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings

Approved: 6/26/2008

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE/IESNA Addendum bf-2010,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings

Approved: 7/23/2010

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE/IESNA Addendum as-2012,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings

Approved: 6/28/2012

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE/IESNA Addendum ax-2010,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings

Approved: 7/23/2010

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE/IESNA Addendum bk-2010,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings

Approved: 1/28/2010

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE/IESNA Addendum at-2009,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings

Approved: 7/22/2009

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE/IESNA Addendum ay-2009,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings

Approved: 6/25/2009

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE/IESNA Addendum bl-2010,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings

Approved: 1/28/2010

Manager of Standards

Attn: Jim Heldenbrand ASHRAE

1791 Tullie Circle, N.E.

Atlanta Ge 30329-5478

ANSI/ASHRAE/IESNA Addendum bo-2010,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 1/28/2010*

*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IESNA Addendum br-2010,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 1/28/2010*

*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IESNA Addendum c-2007, Energy  
Standard for Buildings Except Low-Rise  
Residential Buildings  
*Approved: 7/25/2007*

*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IESNA Addendum d-2009, Energy  
Standard for Buildings Except Low-Rise  
Residential Buildings  
*Approved: 7/22/2009*

*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IESNA Addendum e-2010, Energy  
Standard for Buildings Except Low-Rise  
Residential Buildings  
*Approved: 1/28/2010*

*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IESNA Addendum f-2006, Energy  
Standard for Buildings Except Low-Rise  
Residential Buildings  
*Approved: 4/10/2006*

*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IESNA Addendum g-2006, Energy  
Standard for Buildings Except Low-Rise  
Residential Buildings  
*Approved: 4/10/2006*

*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IESNA Addendum g to  
ANSI/ASHRAE/IESNA 90.1-2007, Energy  
Standard for Buildings Except Low-Rise  
Residential Buildings  
*Approved: 6/26/2008*

*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IESNA Addendum h-2006, Energy  
Standard for Buildings Except Low-Rise  
Residential Buildings  
*Approved: 4/10/2006*

*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IESNA Addendum h to  
ANSI/ASHRAE/IESNA 90.1-2007, Energy  
Standard for Buildings Except Low-Rise  
Residential Buildings  
*Approved: 6/26/2008*

*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IESNA Addendum i-2006, Energy  
Standard for Buildings Except Low-Rise  
Residential Buildings  
*Approved: 4/10/2006*

*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IESNA Addendum i to  
ANSI/ASHRAE/IESNA 90.1-2007, Energy  
Standard for Buildings Except Low-Rise  
Residential Buildings  
*Approved: 6/26/2008*

*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IESNA Addendum j-2008, Energy  
Standard for Buildings Except Low-Rise  
Residential Buildings  
*Approved: 7/24/2008*

*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IESNA Addendum k-2008, Energy  
Standard for Buildings Except Low-Rise  
Residential Buildings  
*Approved: 7/24/2008*

*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IESNA Addendum l-2008, Energy  
Standard for Buildings Except Low-Rise  
Residential Buildings  
*Approved: 7/24/2008*

*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IESNA Addendum m-2008,  
Energy Standard for Buildings Except Low-  
Rise Residential Buildings  
*Approved: 11/19/2008*

*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IESNA Addendum n-2008, Energy  
Standard for Buildings Except Low-Rise  
Residential Buildings  
*Approved: 6/26/2008*

*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IESNA Addendum o-2009, Energy  
Standard for Buildings Except Low-Rise  
Residential Buildings  
*Approved: 7/22/2009*

*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IESNA Addendum p-2006, Energy  
Standard for Buildings Except Low-Rise  
Residential Buildings  
*Approved: 4/10/2006*

*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IESNA Addendum p to  
ANSI/ASHRAE/IESNA 90.1-2007, Energy  
Standard for Buildings Except Low-Rise  
Residential Buildings  
*Approved: 6/26/2008*

*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IESNA Addendum q-2008, Energy  
Standard for Buildings Except Low-Rise  
Residential Buildings  
*Approved: 7/24/2008*

*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IESNA Addendum r-2009, Energy Standard for Buildings Except Low-Rise Residential Buildings  
*Approved: 6/25/2009*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IESNA Addendum s-2008, Energy Standard for Buildings Except Low=Rise Residential Buildings  
*Approved: 11/19/2008*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IESNA Addendum t-2008, Energy Standard for Buildings Except Low=Rise Residential Buildings  
*Approved: 11/19/2008*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IESNA Addendum u-2008, Energy Standard for Buildings Except Low=Rise Residential Buildings  
*Approved: 11/19/2008*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IESNA Addendum v-2009, Energy Standard for Buildings Except Low=Rise Residential Buildings  
*Approved: 1/29/2009*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IESNA Addendum w-2008, Energy Standard for Buildings Except Low=Rise Residential Buildings  
*Approved: 11/19/2008*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IESNA Addendum x-2009, Energy Standard for Buildings Except Low-Rise Residential Buildings  
*Approved: 7/22/2009*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IESNA Addendum y-2007, Energy Standard for Buildings Except Low-Rise Residential Buildings  
*Approved: 3/3/2007*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IESNA Addendum y to ANSI/ASHRAE/IESNA 90.1-2007, Energy Standard for Buildings Except Low-Rise Residential Buildings  
*Approved: 6/26/2008*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IESNA Addendum z-2004, Energy Standard for Buildings Except Low-Rise Residential Buildings  
*Approved: 7/1/2004*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IESNA Standard 90.1-2016, Energy Standard for Buildings Except Low-Rise Residential Buildings  
*Approved: 4/4/2000*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IESNA Standard 90.1bg-2010, Energy Standard for Buildings Except Low-Rise Residential Buildings  
*Approved: 1/28/2010*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IESNA Standard 90.1bh-2010, Energy Standard for Buildings Except Low-Rise Residential Buildings  
*Approved: 1/28/2010*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IESNA Standard 90.1bj-2010, Energy Standard for Buildings Except Low-Rise Residential Buildings  
*Approved: 1/28/2010*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IESNA Standard 90.1bm-2010, Energy Standard for Buildings Except Low-Rise Residential Buildings  
*Approved: 1/28/2010*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IESNA Standard 90.1bn-2010, Energy Standard for Buildings Except Low-Rise Residential Buildings  
*Approved: 7/23/2010*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IESNA Standard 90.1bp-2010, Energy Standard for Buildings Except Low-Rise Residential Buildings  
*Approved: 2/24/2010*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/IESNA Standard 90.1bq-2010, Energy Standard for Buildings Except Low-Rise Residential Buildings  
*Approved: 1/28/2010*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/NEMA Standard 201-2016, Facility Smart Grid Information Model  
*Approved: 5/2/2016*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/SMACNA Standard 126-2016, Method of Testing HVAC Air Ducts  
*Approved: 7/1/2016*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/USGBC/IES 189.1aa-2012, Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings  
*Approved: 6/28/2012*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/USGBC/IES 189.1x-2012,  
Standard for the Design of High-Performance  
Green Buildings Except Low-Rise Residential  
Buildings  
*Approved: 6/28/2012*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/USGBC/IES 189.1a-2012,  
Standard for the Design of High-Performance  
Green Buildings Except Low-Rise Residential  
Buildings  
*Approved: 6/28/2012*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/USGBC/IES 189.1c-2011,  
Standard for the Design of High-Performance  
Green Buildings Except Low-Rise Residential  
Buildings  
*Approved: 6/30/2011*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/USGBC/IES 189.1d-2011,  
Standard for the Design of High-Performance  
Green Buildings Except Low-Rise Residential  
Buildings  
*Approved: 6/30/2011*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/USGBC/IES 189.1d-2012,  
Standard for the Design of High-Performance  
Green Buildings Except Low-Rise Residential  
Buildings  
*Approved: 6/28/2012*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/USGBC/IES 189.1e-2011,  
Standard for the Design of High-Performance  
Green Buildings Except Low-Rise Residential  
Buildings  
*Approved: 6/30/2011*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/USGBC/IES 189.1e-2012,  
Standard for the Design of High-Performance  
Green Buildings Except Low-Rise Residential  
Buildings  
*Approved: 6/28/2012*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/USGBC/IES 189.1f-2012,  
Standard for the Design of High-Performance  
Green Buildings Except Low-Rise Residential  
Buildings  
*Approved: 6/28/2012*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/USGBC/IES 189.1f-2016,  
Standard for the Design of High-Performance  
Green Buildings Except Low-Rise Residential  
Buildings  
*Approved: 6/30/2016*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/USGBC/IES 189.1g-2011,  
Standard for the Design of High-Performance  
Green Buildings Except Low-Rise Residential  
Buildings  
*Approved: 11/2/2011*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/USGBC/IES 189.1h-2011,  
Standard for the Design of High-Performance  
Green Buildings Except Low-Rise Residential  
Buildings  
*Approved: 6/30/2011*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/USGBC/IES 189.1j-2011,  
Standard for the Design of High-Performance  
Green Buildings Except Low-Rise Residential  
Buildings  
*Approved: 6/30/2011*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/USGBC/IES 189.1j-2016,  
Standard for the Design of High-Performance  
Green Buildings Except Low-Rise Residential  
Buildings  
*Approved: 8/30/2016*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/USGBC/IES 189.1m-2016,  
Standard for the Design of High-Performance  
Green Buildings Except Low-Rise Residential  
Buildings  
*Approved: 8/30/2016*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/USGBC/IES 189.1n-2012,  
Standard for the Design of High-Performance  
Green Buildings Except Low-Rise Residential  
Buildings  
*Approved: 6/28/2012*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/USGBC/IES 189.1q-2016,  
Standard for the Design of High-Performance  
Green Buildings Except Low-Rise Residential  
Buildings  
*Approved: 8/30/2016*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/USGBC/IES 189.1t-2012,  
Standard for the Design of High-Performance  
Green Buildings Except Low-Rise Residential  
Buildings  
*Approved: 6/28/2012*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/USGBC/IES 189.1u-2011,  
Standard for the Design of High-Performance  
Green Buildings Except Low-Rise Residential  
Buildings  
*Approved: 11/2/2011*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/USGBC/IES 189.1v-2011,  
Standard for the Design of High-Performance  
Green Buildings Except Low-Rise Residential  
Buildings  
*Approved: 11/2/2011*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/USGBC/IES Addendum 189.1aj  
-2014, Standard for the Design of High-  
Performance Green Buildings Except Low-  
Rise Residential Buildings  
*Approved: 8/7/2014*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/USGBC/IES Addendum 189.1as  
-2014, Standard for the Design of High-  
Performance Green Buildings Except Low-  
Rise Residential Buildings  
*Approved: 7/31/2014*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/USGBC/IES 189.1w-2011,  
Standard for the Design of High-Performance  
Green Buildings Except Low-Rise Residential  
Buildings  
*Approved: 11/2/2011*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/USGBC/IES Addendum 189.1al  
-2014, Standard for the Design of High-  
Performance Green Buildings Except Low-  
Rise Residential Buildings  
*Approved: 7/31/2014*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/USGBC/IES Addendum 189.1at  
-2014, Standard for the Design of High-  
Performance Green Buildings Except Low-  
Rise Residential Buildings  
*Approved: 7/10/2014*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/USGBC/IES Addendum 189.1a  
-2016, Standard for the Design of High-  
Performance Green Buildings Except Low-  
Rise Residential Buildings  
*Approved: 1/28/2016*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/USGBC/IES Addendum 189.1an  
-2014, Standard for the Design of High-  
Performance Green Buildings Except Low-  
Rise Residential Buildings  
*Approved: 7/10/2013*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/USGBC/IES Addendum 189.1au  
-2014, Standard for the Design of High-  
Performance Green Buildings Except Low-  
Rise Residential Buildings  
*Approved: 7/10/2014*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/USGBC/IES Addendum 189.1ab  
-2012, Standard for the Design of High-  
Performance Green Buildings Except Low-  
Rise Residential Buildings  
*Approved: 1/26/2012*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/USGBC/IES Addendum 189.1ao  
-2014, Standard for the Design of High-  
Performance Green Buildings Except Low-  
Rise Residential Buildings  
*Approved: 7/10/2014*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/USGBC/IES Addendum 189.1av  
-2014, Standard for the Design of High-  
Performance Green Buildings Except Low-  
Rise Residential Buildings  
*Approved: 7/10/2014*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/USGBC/IES Addendum 189.1ac  
-2012, Standard for the Design of High-  
Performance Green Buildings Except Low-  
Rise Residential Buildings  
*Approved: 1/26/2012*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/USGBC/IES Addendum 189.1ap  
-2014, Standard for the Design of High-  
Performance Green Buildings Except Low-  
Rise Residential Buildings  
*Approved: 7/10/2014*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/USGBC/IES Addendum 189.1aw  
-2014, Standard for the Design of High-  
Performance Green Buildings Except Low-  
Rise Residential Buildings  
*Approved: 7/10/2014*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/USGBC/IES Addendum 189.1ae  
-2014, Standard for the Design of High-  
Performance Green Buildings Except Low-  
Rise Residential Buildings  
*Approved: 7/10/2014*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/USGBC/IES Addendum 189.1aq  
-2014, Standard for the Design of High-  
Performance Green Buildings Except Low-  
Rise Residential Buildings  
*Approved: 8/7/2014*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/USGBC/IES Addendum 189.1ax  
-2014, Standard for the Design of High-  
Performance Green Buildings Except Low-  
Rise Residential Buildings  
*Approved: 8/7/2014*  
*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*



ANSI/ASHRAE/USGBC/IES Addendum 189.1bt  
-2014, Standard for the Design of High-  
Performance Green Buildings Except Low-  
Rise Residential Buildings  
*Approved: 7/10/2014*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/USGBC/IES Addendum 189.1bu  
-2014, Standard for the Design of High-  
Performance Green Buildings Except Low-  
Rise Residential Buildings  
*Approved: 7/10/2014*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/USGBC/IES Addendum 189.1bv  
-2014, Standard for the Design of High-  
Performance Green Buildings Except Low-  
Rise Residential Buildings  
*Approved: 8/7/2014*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/USGBC/IES Addendum 189.1bw  
-2014, Standard for the Design of High-  
Performance Green Buildings Except Low-  
Rise Residential Buildings  
*Approved: 7/10/2014*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/USGBC/IES Addendum 189.1bx  
-2014, Standard for the Design of High-  
Performance Green Buildings Except Low-  
Rise Residential Buildings  
*Approved: 8/26/2014*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/USGBC/IES Addendum 189.1by  
-2015, Standard for the Design of High-  
Performance Green Buildings Except Low-  
Rise Residential Buildings  
*Approved: 7/2/2015*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/USGBC/IES Addendum 189.1bz  
-2014, Standard for the Design of High-  
Performance Green Buildings Except Low-  
Rise Residential Buildings  
*Approved: 7/10/2014*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/USGBC/IES Addendum 189.1c  
-2012, Standard for the Design of High-  
Performance Green Buildings Except Low-  
Rise Residential Buildings  
*Approved: 6/28/2012*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/USGBC/IES Addendum 189.1cb  
-2014, Standard for the Design of High-  
Performance Green Buildings Except Low-  
Rise Residential Buildings  
*Approved: 7/10/2014*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/USGBC/IES Addendum 189.1cd  
-2014, Standard for the Design of High-  
Performance Green Buildings Except Low-  
Rise Residential Buildings  
*Approved: 8/7/2014*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/USGBC/IES Addendum 189.1ce  
-2015, Standard for the Design of High-  
Performance Green Buildings Except Low-  
Rise Residential Buildings  
*Approved: 7/28/2015*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/USGBC/IES Addendum 189.1d  
-2016, Standard for the Design of High-  
Performance Green Buildings Except Low-  
Rise Residential Buildings  
*Approved: 1/28/2016*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/USGBC/IES Addendum 189.1e  
-2016, Standard for the Design of High-  
Performance Green Buildings Except Low-  
Rise Residential Buildings  
*Approved: 1/28/2016*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/USGBC/IES Addendum 189.1f  
-2011, Standard for the Design of High-  
Performance Green Buildings Except Low-  
Rise Residential Buildings  
*Approved: 7/27/2011*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/USGBC/IES Addendum 189.1g  
-2016, Standard for the Design of High-  
Performance Green Buildings Except Low-  
Rise Residential Buildings  
*Approved: 1/28/2016*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/USGBC/IES Addendum 189.1h  
-2013, Standard for the Design of High-  
Performance Green Buildings Except Low-  
Rise Residential Buildings  
*Approved: 1/30/2013*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/USGBC/IES Addendum 189.1i  
-2011, Standard for the Design of High-  
Performance Green Buildings Except Low-  
Rise Residential Buildings  
*Approved: 11/2/2011*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/USGBC/IES Addendum 189.1j  
-2013, Standard for the Design of High-  
Performance Green Buildings Except Low-  
Rise Residential Buildings  
*Approved: 2/28/2013*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
*1791 Tullie Circle, N.E.*  
*Atlanta Ge 30329-5478*

ANSI/ASHRAE/USGBC/IES Addendum 189.1k  
-2011, Standard for the Design of High-  
Performance Green Buildings Except Low-  
Rise Residential Buildings  
*Approved: 6/30/2011*

*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/USGBC/IES Addendum 189.1k  
-2013, Standard for the Design of High-  
Performance Green Buildings Except Low-  
Rise Residential Buildings  
*Approved: 2/28/2013*

*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/USGBC/IES Addendum 189.1l  
-2011, Standard for the Design of High-  
Performance Green Buildings  
*Approved: 7/27/2011*

*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/USGBC/IES Addendum 189.1l  
-2013, Standard for the Design of High-  
Performance Green Buildings Except Low-  
Rise Residential Buildings  
*Approved: 1/30/2013*

*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/USGBC/IES Addendum 189.1m  
-2011, Standard for the Design of High-  
Performance Green Buildings Except Low-  
Rise Residential Buildings  
*Approved: 11/2/2011*

*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/USGBC/IES Addendum 189.1m  
-2014, Standard for the Design of High-  
Performance Green Buildings Except Low-  
Rise Residential Buildings  
*Approved: 1/23/2014*

*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/USGBC/IES Addendum 189.1o  
-2011, Standard for the Design of High-  
Performance Green Buildings Except Low-  
Rise Residential Buildings  
*Approved: 6/30/2011*

*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/USGBC/IES Addendum 189.1o  
-2014, Standard for the Design of High-  
Performance Green Buildings Except Low-  
Rise Residential Buildings  
*Approved: 1/23/2014*

*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/USGBC/IES Addendum 189.1p  
-2011, Standard for the Design of High-  
Performance Green Buildings Except Low-  
Rise Residential Buildings  
*Approved: 11/2/2011*

*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/USGBC/IES Addendum 189.1q  
-2011, Standard for the Design of High-  
Performance Green Buildings Except Low-  
Rise Residential Buildings  
*Approved: 11/2/2011*

*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/USGBC/IES Addendum 189.1q  
-2013, Standard for the Design of High-  
Performance Green Buildings Except Low-  
Rise Residential Buildings  
*Approved: 1/30/2013*

*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/USGBC/IES Addendum 189.1r  
-2011, Standard for the Design of High-  
Performance Green Buildings Except Low-  
Rise Residential Buildings  
*Approved: 11/2/2011*

*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/USGBC/IES Addendum 189.1r  
-2013, Standard for the Design of High-  
Performance Green Buildings Except Low-  
Rise Residential Buildings  
*Approved: 7/1/2013*

*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/USGBC/IES Addendum 189.1s  
-2013, Standard for the Design of High-  
Performance Green Buildings Except Low-  
Rise Residential Buildings  
*Approved: 1/30/2013*

*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/USGBC/IES Addendum 189.1v  
-2014, Standard for the Design of High-  
Performance Green Buildings Except Low-  
Rise Residential Buildings  
*Approved: 7/31/2014*

*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/USGBC/IES Addendum 189.1w  
-2014, Standard for the Design of High-  
Performance Green Buildings Except Low-  
Rise Residential Buildings  
*Approved: 7/10/2014*

*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/USGBC/IES Addendum 189.1z  
-2013, Standard for the Design of High-  
Performance Green Buildings Except Low-  
Rise Residential Buildings  
*Approved: 7/1/2013*

*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/USGBC/IES Addendum ad to  
Standard 189.1-2014, Standard for the  
Design of High-Performance Green Buildings  
Except Low-Rise Residential Buildings  
*Approved: 7/10/2014*

*Manager of Standards*  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/USGBC/IES Addendum af to Standard 189.1-2014, Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings  
*Approved: 1/23/2014*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/USGBC/IES Addendum ag to Standard 189.1-2014, Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings  
*Approved: 1/23/2014*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/USGBC/IES Addendum ah to Standard 189.1-2014, Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings  
*Approved: 1/23/2014*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/USGBC/IES Addendum b to ANSI/ASHRAE/USGBC/IES Standard 189.1-2011, Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings  
*Approved: 7/24/2013*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/USGBC/IES Addendum u to ANSI/ASHRAE/USGBC/IES Standard 189.1-2011, Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings  
*Approved: 7/24/2013*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/USGBC/IES Addendum y to Standard 189.1-2013, Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings  
*Approved: 2/28/2013*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/USGBC/IES Addendum 189.1a-2010, Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings  
*Approved: 7/1/2010*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/USGBC/IES Standard 189.1-2017, Standard for High-Performance Green Buildings Except Low-Rise Residential Buildings  
*Approved: 1/22/2010*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/USGBC/IES/ICC Addendum 189.1c-2019, Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings  
*Approved: 6/27/2019*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/USGBC/IES/ICC Addendum 189.1d-2019, Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings  
*Approved: 6/27/2019*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE 34F-2017, Designation and Safety Classification of Refrigerants  
*Approved: 10/10/2017*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/ICC/USGBC/IES 189.1f-2019, Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings  
*Approved: 6/27/2019*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/ICC/USGBC/IES Addendum x to ANSI/ASHRAE/ICC/USGBC/IES Standard 189.1-2019, Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings  
*Approved: 8/26/2019*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/USGBC/IES/ICC Addendum 189.1e-2019, Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings  
*Approved: 6/27/2019*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/USGBC/IES/ICC Addendum 189.1g-2019, Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings  
*Approved: 6/27/2019*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/USGBC/IES/ICC Addendum 189.1h-2019, Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings  
*Approved: 6/27/2019*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/USGBC/IES/ICC Addendum 189.1i-2019, Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings  
*Approved: 7/24/2019*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASHRAE/USGBC/IES/ICC Addendum 189.1l-2019, Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings  
*Approved: 6/27/2019*

*Manager of Standards*  
*Attn: Jim Heldenbrand ASHRAE*  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

ANSI/ASRHA/USGBC/IES/ICC Addendum v to ANSI/ASRHA/USGBC/IES/ICC Standard 189.1-2019, Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings  
Approved: 7/1/2019

Manager of Standards  
Attn: Jim Heldenbrand ASHRAE  
1791 Tullie Circle, N.E.  
Atlanta Ge 30329-5478

### ASIS (ASIS INTERNATIONAL)

ANSI/ASIS CSO.1-2013, Chief Security Officer (CSO) - An Organizational Model  
Approved: 11/8/2013

Sue Cook, (708) 579-8210, orders@ans.org

ANSI/ASIS INV.1-2015, Investigations  
Approved: 7/28/2015

Sue Cook, (708) 579-8210, orders@ans.org

ANSI/ASIS ORM.1-2017, Security and Resilience in Organizations and Their Supply Chains - Requirements with Guidance  
Approved: 3/20/2017

Sue Cook, (708) 579-8210, orders@ans.org

ANSI ASIS PSC.1-2012 (R2017), Management System for Quality of Private Security Company Operations - Requirements with Guidance  
Approved: 9/1/2017

Sue Cook, (708) 579-8210, orders@ans.org

ANSI/ASIS PSC.2-2019, Conformity Assessment and Auditing Management Systems for Quality of Private Security Company Operations  
Approved: 5/23/2019

Sue Cook, (708) 579-8210, orders@ans.org

ANSI ASIS PSC.3-2013, Maturity Model for the Phased Implementation of a Quality Assurance Management System for Private Security Service Providers  
Approved: 1/29/2013

Sue Cook, (708) 579-8210, orders@ans.org

ANSI/ASIS SCR.M.1-2014, Supply Chain Risk Management: A Compilation of Best Practices  
Approved: 3/28/2014

Sue Cook, (708) 579-8210, orders@ans.org

ANSI ASIS/SHRM WVPI.1-2011, Workplace Violence Prevention and Intervention (Joint ASIS International and Society for Human Resource Management (SHRM) Standard)  
Approved: 9/2/2011

Sue Cook, (708) 579-8210, orders@ans.org

### ASME (AMERICAN SOCIETY OF MECHANICAL ENGINEERS)

ANSI/API 579-1/ASME FFS-1-2016, Fitness-for-Service  
Approved: 4/19/2016

Silvana Rodriguez-Bhatti

ANSI/API 579-2I/ASME FFS-2-2009, Fitness-For-Service Example Problem Manual  
Approved: 8/11/2009

Silvana Rodriguez-Bhatti

ASME B17.1-1967 (R2017), Keys and Keyseats  
Approved: 10/5/2017

Silvana Rodriguez-Bhatti

ASME A112.1.2-2012 (R2017), Air Gaps in Plumbing Systems (for Plumbing Fixtures and Water-Connected Receptors)  
Approved: 5/4/2017

Silvana Rodriguez-Bhatti

ASME A112.1.3-2000 (R2015), Air Gap Fittings for Use With Plumbing Fixtures, Appliances, and Appurtenances  
Approved: 3/13/2015

Silvana Rodriguez-Bhatti

ASME A112.14.1-2003 (R2017), Backwater Valves  
Approved: 5/4/2017

Silvana Rodriguez-Bhatti

ASME A112.14.3-2018, Hydromechanical Grease Interceptors  
Approved: 1/10/2018

Silvana Rodriguez-Bhatti

ASME A112.14.4-2001 (R2017), Grease Removal Devices  
Approved: 5/4/2017

Silvana Rodriguez-Bhatti

ASME A112.14.6-2010 (R2015), FOG (Fats, Oils & Greases) Disposal Systems  
Approved: 3/13/2015

Silvana Rodriguez-Bhatti

ASME A112.18.1-2012/CSA B125.1-2018, Plumbing Supply Fittings  
Approved: 6/22/2018

Silvana Rodriguez-Bhatti

ASME A112.18.2/CSA B125.2-2015, Plumbing Waste Fittings  
Approved: 6/19/2015

Silvana Rodriguez-Bhatti

ASME A112.18.3-2002 (R2017), Performance Requirements for Backflow Protection Devices and Systems in Plumbing Fixture Fittings  
Approved: 5/4/2017

Silvana Rodriguez-Bhatti

ASME A112.18.6/CSA B125.6-2017, Flexible Water Connectors  
Approved: 6/19/2017

Silvana Rodriguez-Bhatti

ASME A112.18.8-2009 (2014), In-Line Sanitary Waste Valves for Plumbing Drainage Systems  
Approved: 7/10/2014

Silvana Rodriguez-Bhatti

ASME A112.18.9-2011 (R2017), Protectors/Insulators for Exposed Waste and Supplies on Accessible Fixtures  
Approved: 2/24/2017

Silvana Rodriguez-Bhatti

ASME A112.19.1/CSA B45.2-2018, Enamelled Cast Iron and Enamelled Steel Plumbing Fixtures  
Approved: 6/22/2018

Silvana Rodriguez-Bhatti

ASME A112.19.10-2017, Retro Dual Flush Devices for Water Closets  
Approved: 6/19/2017

Silvana Rodriguez-Bhatti

ASME A112.19.12-2014 (R2019), Wall Mounted, Pedestal Mounted, Adjustable, Elevating, Tilting, and Pivoting Lavatory, Sink, and Shampoo Bowl Carrier Systems and Drain Waste Systems  
Approved: 2/27/2019

Silvana Rodriguez-Bhatti

ASME A112.19.14-2013 (R2018), Six-Liter Water Closets Equipped with a Dual Flushing Device  
Approved: 5/8/2018

Silvana Rodriguez-Bhatti

ASME A112.19.15-2012 (R2017), Bathtubs/Whirlpool Bathtubs with Pressure Sealed Doors  
Approved: 5/4/2017

Silvana Rodriguez-Bhatti

ASME A112.19.17-2010 (R2018), Manufactured Safety Vacuum Release Systems (SVRS) For Residential and Commercial Swimming Pool, Spa, Hot Tub and Wading Pool Suction Systems  
Approved: 5/8/2018

Silvana Rodriguez-Bhatti

ASME A112.19.19-2016, Vitreous China Nonwater Urinals  
Approved: 8/31/2016

Silvana Rodriguez-Bhatti

ASME A112.19.2/CSA B45.1-2018, Ceramic Plumbing Fixtures  
Approved: 6/15/2018

Silvana Rodriguez-Bhatti

ASME A112.19.3-2017/CSA B45.4-2017, Stainless Steel Plumbing Fixtures <i>Approved: 3/10/2017</i> <i>Silvana Rodriguez-Bhatti</i>	ASME A112.6.1M-1997 (R2017), Floor-Affixed Supports for Off-the-Floor Plumbing Fixtures for Public Use <i>Approved: 5/4/2017</i> <i>Silvana Rodriguez-Bhatti</i>	ASME A17.6-2017, Standard for Elevator Suspension, Compensation and Governor Systems <i>Approved: 9/29/2017</i> <i>Silvana Rodriguez-Bhatti</i>
ASME A112.19.5-2017/CSA B45.15-2017, Flush Valves and Spuds for Water Closets, Urinals, and Tanks <i>Approved: 5/23/2017</i> <i>Silvana Rodriguez-Bhatti</i>	ASME A112.6.2-2017, Framing Affixed Supports (Carriers) for Off-the-Floor Plumbing Fixtures <i>Approved: 11/1/2017</i> <i>Silvana Rodriguez-Bhatti</i>	ASME A17.7/CSA B44.7-2006 (R2012), Performance Based Safety Code for Elevators and Escalators <i>Approved: 7/17/2012</i> <i>Silvana Rodriguez-Bhatti</i>
ASME A112.19.7/CSA B45.10-2012 (2017), Hydromassage Bathtub Appliances <i>Approved: 2/23/2017</i> <i>Silvana Rodriguez-Bhatti</i>	ASME A112.6.3-2016, Floor and Trench Drains <i>Approved: 1/26/2016</i> <i>Silvana Rodriguez-Bhatti</i>	ASME A17.8-2016/CSA B44.8-2016, Standard for Wind Turbine Elevators <i>Approved: 1/8/2016</i> <i>Silvana Rodriguez-Bhatti</i>
ASME A112.21.3M-1985 (R2017), Hydrants for Utility and Maintenance Use <i>Approved: 5/4/2017</i> <i>Silvana Rodriguez-Bhatti</i>	ASME A112.6.3-2019, Floor and Trench Drains <i>Approved: 1/31/2019</i> <i>Silvana Rodriguez-Bhatti</i>	ASME A18.1 2017, Safety Standard for Platform Lifts and Stairway Chairlifts <i>Approved: 8/3/2017</i> <i>Silvana Rodriguez-Bhatti</i>
ASME A112.3.1-2007 (R2017), Stainless Steel Drainage Systems for Sanitary DWV, Storm, and Vacuum Applications, Above and Below Ground <i>Approved: 5/4/2017</i> <i>Silvana Rodriguez-Bhatti</i>	ASME A112.6.4-2003 (R2012), Roof, Deck, and Balcony Drains <i>Approved: 12/17/2012</i> <i>Silvana Rodriguez-Bhatti</i>	ASME A90.1-2015, Safety Standard for Belt Manlifts <i>Approved: 1/13/2015</i> <i>Silvana Rodriguez-Bhatti</i>
ASME A112.3.4-2013 /CSA B45.9-2018, Macerating Toilet Systems and Wastr- Plumbing Systems for Plumbing Fixtures <i>Approved: 5/31/2018</i> <i>Silvana Rodriguez-Bhatti</i>	ASME A112.6.7-2010 (R2015), Sanitary Floor Sinks <i>Approved: 3/13/2015</i> <i>Silvana Rodriguez-Bhatti</i>	ASME AED-1-2018, Aerospace and Advanced Engineering Drawings <i>Approved: 9/25/2018</i> <i>Silvana Rodriguez-Bhatti</i>
ASME A112.36.2M-2008 (R2017), Cleanouts <i>Approved: 5/4/2017</i> <i>Silvana Rodriguez-Bhatti</i>	ASME A112.6.9-2005 (R2015), Siphonic Roof Drains <i>Approved: 3/13/2015</i> <i>Silvana Rodriguez-Bhatti</i>	ASME AG-1-2017, Code on Nuclear Air and Gas Treatment <i>Approved: 5/22/2017</i> <i>Silvana Rodriguez-Bhatti</i>
ASME A112.4.1-2014 (R2019, Water Heater Relief Valve Drain Tubes <i>Approved: 2/27/2019</i> <i>Silvana Rodriguez-Bhatti</i>	ASME A120.1-2014, Safety Requirements for Powered Platforms and Traveling Ladders and Gantries for Building Maintenance <i>Approved: 3/4/2014</i> <i>Silvana Rodriguez-Bhatti</i>	ASME AG-1-2019, Code on Nuclear Air and Gas Treatment <i>Approved: 8/8/2019</i> <i>Silvana Rodriguez-Bhatti</i>
ASME A112.4.14/CSA B125.14-2017, Manually Operated Valves for Use in Plumbing Systems <i>Approved: 6/1/2017</i> <i>Silvana Rodriguez-Bhatti</i>	ASME A13.1-2015, Scheme for the Identification of Piping Systems <i>Approved: 10/30/2015</i> <i>Silvana Rodriguez-Bhatti</i>	ASME ANDE-1-2015, ASME Nondestructive Examination and Quality Control Central Qualification and Certification Program <i>Approved: 4/22/2015</i> <i>Silvana Rodriguez-Bhatti</i>
ASME A112.4.2/CSA B45.16-2015, Water Closet Personal Hygiene Devices <i>Approved: 6/19/2015</i> <i>Silvana Rodriguez-Bhatti</i>	ASME A17.1/CSA B44-2016, Safety Code for Elevators and Escalators <i>Approved: 7/25/2016</i> <i>Silvana Rodriguez-Bhatti</i>	ASME B1.1-2019, Unified Inch Screw Threads (UN and UNR Thread Form) <i>Approved: 8/26/2019</i> <i>Silvana Rodriguez-Bhatti</i>
ASME A112.4.3-1999 (R2015), Plastic Fittings for Connecting Water Closets to the Sanitary Drainage System <i>Approved: 3/13/2015</i> <i>Silvana Rodriguez-Bhatti</i>	ASME A17.2-2017, Guide for Inspection of Elevators, Escalators, and Moving Walks <i>Approved: 10/25/2017</i> <i>Silvana Rodriguez-Bhatti</i>	ASME B1.10M-2004 (R2019), Unified Miniature Screw Threads <i>Approved: 5/23/2019</i> <i>Silvana Rodriguez-Bhatti</i>
ASME A112.4.4-2017, Plastic Push-Fit Drain, Waste and Vent (DWV) Fittings <i>Approved: 5/25/2017</i> <i>Silvana Rodriguez-Bhatti</i>	ASME A17.3-2017, Safety Code for Existing Elevators and Escalators <i>Approved: 12/12/2017</i> <i>Silvana Rodriguez-Bhatti</i>	ASME B1.11-1958 (R2016), Microscopic Objective Thread <i>Approved: 6/9/2016</i> <i>Silvana Rodriguez-Bhatti</i>
	ASME A17.4-2015, Guide for Emergency Personnel <i>Approved: 1/8/2015</i> <i>Silvana Rodriguez-Bhatti</i>	

ASME B1.12-1987 (R2018), Class 5 Interference - Fit Thread  
*Approved: 6/15/2018*  
*Silvana Rodriguez-Bhatti*

ASME B1.13M-2005 (R2015), Metric Screw Threads: M Profile  
*Approved: 5/21/2015*  
*Silvana Rodriguez-Bhatti*

ASME B1.16M-1984 (R2016) , Gages and Gaging for Metric M Screw Threads  
*Approved: 6/17/2016*  
*Silvana Rodriguez-Bhatti*

ASME B1.2-1983 (R2017), Gages and Gaging for Unified Inch Screw Threads  
*Approved: 4/25/2017*  
*Silvana Rodriguez-Bhatti*

ASME B1.20.1-2013 (R2018), Pipe Threads, General Purpose (Inch)  
*Approved: 12/7/2018*  
*Silvana Rodriguez-Bhatti*

ASME B1.20.3-1976 (R2018), Dryseal Pipe Threads (Inch)  
*Approved: 9/6/2018*  
*Silvana Rodriguez-Bhatti*

ASME B1.20.5-1991 (R2019), Gaging for Dryseal Pipe Threads (Inch)  
*Approved: 6/18/2019*  
*Silvana Rodriguez-Bhatti*

ASME B1.20.7-1991 (R2018), Hose Coupling Screw Threads (Inch)  
*Approved: 6/15/2018*  
*Silvana Rodriguez-Bhatti*

ASME B1.21M-1997 (R2018), Metric Screw Threads MJ Profile  
*Approved: 6/15/2018*  
*Silvana Rodriguez-Bhatti*

ASME B1.22M-1985 (R2016) , Gages and Gaging for MJ Series Metric Screw Threads  
*Approved: 6/17/2016*  
*Silvana Rodriguez-Bhatti*

ASME B1.25-2019, Measurement Uncertainty Factors in the Calibration of Screw Thread Gages  
*Approved: 3/15/2019*  
*Silvana Rodriguez-Bhatti*

ASME B1.3-2007 (R2017), Screw Thread Gaging Systems for Acceptability: Inch and Metric Screw Threads (UN, UNR, UNJ, M, and MJ)  
*Approved: 3/28/2017*  
*Silvana Rodriguez-Bhatti*

ASME B1.30-2002 (R2017), Screw Threads: Standard Practice for Calculating and Rounding Dimensions  
*Approved: 3/28/2017*  
*Silvana Rodriguez-Bhatti*

ASME B1.5-1997 (R2014), Acme Screw Threads  
*Approved: 6/2/2014*  
*Silvana Rodriguez-Bhatti*

ASME B1.7-2006 (R2016), Nomenclature, Definitions, and Letter Symbols for Screw Threads  
*Approved: 6/9/2016*  
*Silvana Rodriguez-Bhatti*

ASME B1.8-1988 (R2016), Stub Acme Screw Threads  
*Approved: 6/9/2016*  
*Silvana Rodriguez-Bhatti*

ASME B1.9-1973 (R2017), Buttress Inch Screw Threads (7 deg./45 deg. Form with 0.6 Pitch Basic Height of Thread Engagement)  
*Approved: 4/18/2017*  
*Silvana Rodriguez-Bhatti*

ASME B107.100-2010, Flat Wrenches  
*Approved: 3/11/2010*  
*Silvana Rodriguez-Bhatti*

ASME B107.110-2019, Socket Wrenches, Handles, and Attachments  
*Approved: 8/29/2019*  
*Silvana Rodriguez-Bhatti*

ASME B107.17-2015, Gages and Mandrels for Wrench Openings  
*Approved: 6/19/2015*  
*Silvana Rodriguez-Bhatti*

ASME B107.300-2010 (R2016), Torque Instruments  
*Approved: 3/9/2016*  
*Silvana Rodriguez-Bhatti*

ASME B107.4-2019, Driving and Spindle Ends for Portable Hand, Impact, Air, and Electric Tools (Percussion Tools Excluded)  
*Approved: 4/23/2019*  
*Silvana Rodriguez-Bhatti*

ASME B107.400-2018, Striking Tools  
*Approved: 9/20/2018*  
*Silvana Rodriguez-Bhatti*

ASME B107.410-2018, Struck Tools  
*Approved: 11/9/2018*  
*Silvana Rodriguez-Bhatti*

ASME B107.500-2010, Pliers  
*Approved: 6/14/2010*  
*Silvana Rodriguez-Bhatti*

ASME B107.56-2018, Body Repair Tools  
*Approved: 7/20/2018*  
*Silvana Rodriguez-Bhatti*

ASME B107.600-2016, Screwdrivers and Screwdriver Bits  
*Approved: 6/29/2016*  
*Silvana Rodriguez-Bhatti*

ASME B133.8-2011 (R2017), Gas Turbine Installation Sound Emissions  
*Approved: 1/3/2017*  
*Silvana Rodriguez-Bhatti*

ASME B16.1-2015, Gray Iron Pipe Flanges and Flanged Fittings  
*Approved: 7/29/2015*  
*Silvana Rodriguez-Bhatti*

ASME B16.10-2017 , Face-to-Face and End-to-End Dimensions of Valves  
*Approved: 4/25/2017*  
*Silvana Rodriguez-Bhatti*

ASME B16.11-2016 , Forged Fittings, Socket-Welding and Threaded  
*Approved: 10/21/2016*  
*Silvana Rodriguez-Bhatti*

ASME B16.12-2009 (R2014), Cast Iron Threaded Drainage Fittings  
*Approved: 8/15/2014*  
*Silvana Rodriguez-Bhatti*

ASME B16.12-2019 , Cast Iron Threaded Drainage Fittings  
*Approved: 7/29/2019*  
*Silvana Rodriguez-Bhatti*

ASME B16.14-2018, Ferrous Pipe Plugs, Bushings, and Locknuts with Pipe Threads  
*Approved: 8/3/2018*  
*Silvana Rodriguez-Bhatti*

ASME B16.15-2018, Cast Copper Alloy Threaded Fittings: Classes 125 and 250  
*Approved: 8/3/2018*  
*Silvana Rodriguez-Bhatti*

ASME B16.18-2018, Cast Copper Alloy Solder Joint Pressure Fittings  
*Approved: 2/16/2018*  
*Silvana Rodriguez-Bhatti*

ASME B16.20-2017, Metallic Gaskets for Pipe Flanges  
*Approved: 10/11/2017*  
*Silvana Rodriguez-Bhatti*

ASME B16.21-2016 , Nonmetallic Flat Gaskets for Pipe Flanges  
*Approved: 10/11/2016*  
*Silvana Rodriguez-Bhatti*

ASME B16.22-2018, Wrought Copper and Copper Alloy Solder Joint Pressure Fittings

Approved: 8/3/2018

Silvana Rodriguez-Bhatti

ASME B16.23-2016, Cast Copper Alloy Solder Joint Drainage Fittings: DWV

Approved: 10/21/2016

Silvana Rodriguez-Bhatti

ASME B16.24-2016, Cast Copper Alloy Pipe Flanges, Flanged Fittings, and Valves: Classes 150, 300, 600, 900, 1500, and 2500

Approved: 9/23/2016

Silvana Rodriguez-Bhatti

ASME B16.25-2017, Buttwelding Ends

Approved: 9/7/2017

Silvana Rodriguez-Bhatti

ASME B16.26-2018, Cast Copper Alloy Fittings for Flared Copper Tubes

Approved: 8/3/2018

Silvana Rodriguez-Bhatti

ASME B16.29-2017, Wrought Copper and Wrought Copper Alloy Solder Joint Drainage Fittings - DWV

Approved: 9/7/2017

Silvana Rodriguez-Bhatti

ASME B16.3-2016, Malleable Iron Threaded Fittings - Classes 150 and 300

Approved: 9/26/2016

Silvana Rodriguez-Bhatti

ASME B16.33-2012 (R2017), Manually Operated Metallic Gas Valves for Use in Gas Piping Systems up to 125 PSI (sizes NPS 1/2 through NPS 2)

Approved: 11/17/2017

Silvana Rodriguez-Bhatti

ASME B16.34-2017, Valves - Flanged, Threaded, and Welding End

Approved: 3/9/2017

Silvana Rodriguez-Bhatti

ASME B16.36-2015, Orifice Flanges

Approved: 2/24/2015

Silvana Rodriguez-Bhatti

ASME B16.38-2012 (R2017), Large Metallic Valves for Gas Distribution (Manually Operated, NPS - 2 1/2, 125 psig aximum)

Approved: 11/17/2017

Silvana Rodriguez-Bhatti

ASME B16.39-2014, Malleable Iron Threaded Pipe Unions

Approved: 6/24/2014

Silvana Rodriguez-Bhatti

ASME B16.4-2016, Gray Iron Threaded Fittings Classes 125 and 250

Approved: 9/23/2016

Silvana Rodriguez-Bhatti

ASME B16.40-2019, Manually Operated Thermoplastic Gas Shutoffs and Valves in Gas Distribution Systems

Approved: 1/15/2019

Silvana Rodriguez-Bhatti

ASME B16.42-2016, Ductile Iron Pipe Flanges and Flanged Fittings Classes 150 and 300

Approved: 11/7/2016

Silvana Rodriguez-Bhatti

ASME B16.44-2012 (R2017), Manually Operated Metallic Gas Valves for Use in Aboveground Piping System

Approved: 11/17/2017

Silvana Rodriguez-Bhatti

ASME B16.47-2017, Large Diameter Steel Flanges

Approved: 3/6/2017

Silvana Rodriguez-Bhatti

ASME B16.48-2015, Line Blanks

Approved: 9/18/2015

Silvana Rodriguez-Bhatti

ASME B16.49-2017, Factory-Made Wrought Steel Buttwelding Induction Bends for Transportation and Distribution Systems

Approved: 9/7/2017

Silvana Rodriguez-Bhatti

ASME B16.5-2017, Pipe Flanges and Flanged Fittings NPS 1/2 Through NPS 24 Metric/Inch Standard

Approved: 2/14/2017

Silvana Rodriguez-Bhatti

ASME B16.50-2018, Wrought Copper and Copper Alloy Braze-Joint Pressure Fittings

Approved: 7/27/2018

Silvana Rodriguez-Bhatti

ASME B16.51-2018, Copper and Copper Alloy Press-Connect Pressure Fittings

Approved: 9/6/2018

Silvana Rodriguez-Bhatti

ASME B16.52-2018, Forged Nonferrous Fittings, Socket-Welding and Threaded (Titanium, Titanium Alloys, Aluminum, and Aluminum Alloys)

Approved: 3/29/2018

Silvana Rodriguez-Bhatti

ASME B16.9-2018, Factory-Made Wrought Buttwelding Fittings

Approved: 9/25/2018

Silvana Rodriguez-Bhatti

ASME B17.2-1967 (R2017), Woodruff Keys and Keyseats

Approved: 10/5/2017

Silvana Rodriguez-Bhatti

ASME B18.1.1-1972 (R2016), Small Solid Rivets

Approved: 8/11/2016

Silvana Rodriguez-Bhatti

ASME B18.1.2-1972 (R2016), Large Rivets

Approved: 8/11/2016

Silvana Rodriguez-Bhatti

ASME B18.1.3M-1983 (R2016), Metric Small Solid Rivets

Approved: 8/11/2016

Silvana Rodriguez-Bhatti

ASME B18.10-2006 (R2016), Track Bolts and Nuts

Approved: 8/11/2016

Silvana Rodriguez-Bhatti

ASME B18.11-1961 (R2017), Miniature Screws

Approved: 3/21/2017

Silvana Rodriguez-Bhatti

ASME B18.12-2012, Glossary of Terms for Mechanical Fasteners

Approved: 1/9/2012

Silvana Rodriguez-Bhatti

ASME B18.13-2017, Screw And Washer Assemblies - Sems (Inch Series)

Approved: 1/3/2017

Silvana Rodriguez-Bhatti

ASME B18.13.1M-2011 (R2016), Screw and Washer Assemblies: Sems (Metric Series)

Approved: 11/16/2016

Silvana Rodriguez-Bhatti

ASME B18.15-2015, Forged Eyebolts

Approved: 6/1/2015

Silvana Rodriguez-Bhatti

ASME B18.16.4-2008 (R2017), Serrated Hex Flange Locknuts 90,000 PSI (Inch Series)

Approved: 10/5/2017

Silvana Rodriguez-Bhatti

ASME B18.16.6-2017, Prevailing Torque Locknuts (Inch Series)

Approved: 6/1/2017

Silvana Rodriguez-Bhatti

ASME B18.16M-2004 (R2016), Prevailing-Torque Type Steel Metric Hex Nuts and Hex Flange Nuts

Approved: 11/16/2016

Silvana Rodriguez-Bhatti

ASME B18.18-2017, Quality Assurance for Fasteners <i>Approved: 4/6/2017</i> <i>Silvana Rodriguez-Bhatti</i>	ASME B18.21.1-2009 (R2016), Washers: Helical Spring-Lock, Tooth Lock, and Plain Washers <i>Approved: 11/16/2016</i> <i>Silvana Rodriguez-Bhatti</i>	ASME B18.31.3-2014, Threaded Rod (Inch Series) <i>Approved: 11/10/2014</i> <i>Silvana Rodriguez-Bhatti</i>
ASME B18.2.1-2012, Square and Hex Bolts and Screws - Inch <i>Approved: 12/22/2012</i> <i>Silvana Rodriguez-Bhatti</i>	ASME B18.21.2M-1999 (R2014), Lock Washers (Metric Series) <i>Approved: 1/27/2014</i> <i>Silvana Rodriguez-Bhatti</i>	ASME B18.31.4M-2009 (R2017), Threaded Rod (Metric Series) <i>Approved: 2/14/2017</i> <i>Silvana Rodriguez-Bhatti</i>
ASME B18.2.2-2015, Nuts for General Applications: Machine Screw Nuts, Hex, Square, Hex Flange, and Coupling Nuts (Inch Series) <i>Approved: 8/12/2015</i> <i>Silvana Rodriguez-Bhatti</i>	ASME B18.21.3-2008 (R2017), Double Coil Helical Spring Lock Washers for Wood Structures <i>Approved: 10/5/2017</i> <i>Silvana Rodriguez-Bhatti</i>	ASME B18.31.5-2011 (R2016) , Bent Bolts (Inch Series) <i>Approved: 11/16/2016</i> <i>Silvana Rodriguez-Bhatti</i>
ASME B18.2.3.3M-2007 (R2014), Metric Heavy Hex Screws <i>Approved: 12/11/2014</i> <i>Silvana Rodriguez-Bhatti</i>	ASME B18.22M-1981 (R2017), Metric Plain Washers <i>Approved: 3/21/2017</i> <i>Silvana Rodriguez-Bhatti</i>	ASME B18.5-2012 (R2017), Round Head Bolts (Inch Series) <i>Approved: 7/21/2017</i> <i>Silvana Rodriguez-Bhatti</i>
ASME B18.2.3.5M-1979 (R2016) , Metric Hex Bolts <i>Approved: 11/16/2016</i> <i>Silvana Rodriguez-Bhatti</i>	ASME B18.24-2015, Part Identifying Number (PIN) Code System Standard for B18 Fastener Products <i>Approved: 6/1/2015</i> <i>Silvana Rodriguez-Bhatti</i>	ASME B18.6.1-1981 (R2016), Wood Screws (Inch Series) <i>Approved: 10/11/2016</i> <i>Silvana Rodriguez-Bhatti</i>
ASME B18.2.3.9M-2001 (R2014), Metric Heavy Hex Flange Screws <i>Approved: 1/27/2014</i> <i>Silvana Rodriguez-Bhatti</i>	ASME B18.27-1998 (R2017), Tapered and Reduced Cross Section Retaining Rings (Inch Series) <i>Approved: 3/21/2017</i> <i>Silvana Rodriguez-Bhatti</i>	ASME B18.6.2-1998 (R2010), Slotted Head Cap Screws, Square Head Set Screws And Slotted Headless Set Screws <i>Approved: 7/26/2010</i> <i>Silvana Rodriguez-Bhatti</i>
ASME B18.2.4.3M-1979 (R2017), Metric Slotted Hex Nuts <i>Approved: 3/21/2017</i> <i>Silvana Rodriguez-Bhatti</i>	ASME B18.29.1-2010 (R2017), Helical Coil Screw Thread Inserts - Free Running and Screw Locking (Inch Series) <i>Approved: 3/24/2017</i> <i>Silvana Rodriguez-Bhatti</i>	ASME B18.6.3-2013 (R2017), Machine Screws, Tapping Screws, and Metallic Drive Screws (Inch Series) <i>Approved: 10/5/2017</i> <i>Silvana Rodriguez-Bhatti</i>
ASME B18.2.5M-2013 (R2017), Metric Flanged 12-Point Head Screws <i>Approved: 10/5/2017</i> <i>Silvana Rodriguez-Bhatti</i>	ASME B18.29.2M-2005 (R2017), Helical Coil Screw Thread Inserts - Free Running and Screw Locking (Metric Series) <i>Approved: 3/24/2017</i> <i>Silvana Rodriguez-Bhatti</i>	ASME B18.6.8-2010 (R2017), Thumb Screws and Wing Screws (Inch Series) <i>Approved: 3/21/2017</i> <i>Silvana Rodriguez-Bhatti</i>
ASME B18.2.6-2019, Fasteners for Use in Structural Applications <i>Approved: 2/27/2019</i> <i>Silvana Rodriguez-Bhatti</i>	ASME B18.3-2012 (R2017), Socket Cap, Shoulder, Set Screws, and Hex Keys (Inch Series) <i>Approved: 10/5/2017</i> <i>Silvana Rodriguez-Bhatti</i>	ASME B18.6.9-2010 (R2017), Wing Nuts (Inch Series) <i>Approved: 3/21/2017</i> <i>Silvana Rodriguez-Bhatti</i>
ASME B18.2.6M-2012, Metric Fasteners for Use In Structural Applications <i>Approved: 2/9/2012</i> <i>Silvana Rodriguez-Bhatti</i>	ASME B18.31.1M-2008 (R2016), Metric Continuous and Double End Studs <i>Approved: 3/9/2016</i> <i>Silvana Rodriguez-Bhatti</i>	ASME B18.7-2007 (R2017), General Purpose Semi-Tubular Rivets, Full Tubular Rivets, Split Rivets, and Rivet Caps <i>Approved: 5/25/2017</i> <i>Silvana Rodriguez-Bhatti</i>
ASME B18.2.8-1999 (R2017), Clearance Holes for Bolts, Screws, and Studs <i>Approved: 3/21/2017</i> <i>Silvana Rodriguez-Bhatti</i>	ASME B18.31.2-2014, Continuous Thread, Flange (Stud Bolt), and Double-End Studs (Inch Series) <i>Approved: 8/1/2014</i> <i>Silvana Rodriguez-Bhatti</i>	ASME B18.7.1M-2007 (R2017), Metric General Purpose Semi-Tubular Rivets <i>Approved: 5/25/2017</i> <i>Silvana Rodriguez-Bhatti</i>
ASME B18.2.9-2010 (R2017), Straightness Gage and Gaging for Bolts and Screws <i>Approved: 3/21/2017</i> <i>Silvana Rodriguez-Bhatti</i>		ASME B18.8.1-2014, Clevis Pins And Cotter Pins (Inch Series) <i>Approved: 11/5/2014</i> <i>Silvana Rodriguez-Bhatti</i>

ASME B18.8.2-2000 (R2010), Taper Pins, Dowel Pins, Straight Pins, Grooved Pins And Spring Pins (Inch Series)  
 Approved: 9/30/2010  
 Silvana Rodriguez-Bhatti

ASME B18.9-2012 (R2017), Plow Bolts  
 Approved: 5/25/2017  
 Silvana Rodriguez-Bhatti

ASME B20.1-2018, Safety Standard for Conveyors and Related Equipment  
 Approved: 6/22/2018  
 Silvana Rodriguez-Bhatti

ASME B27.6-1972 (R2017), General Purpose Uniform Cross Section Spiral Retaining Rings  
 Approved: 3/24/2017  
 Silvana Rodriguez-Bhatti

ASME B27.7-1977 (R2017), General Purpose Tapered and Reduced Cross Section Retaining Rings (Metric)  
 Approved: 3/24/2017  
 Silvana Rodriguez-Bhatti

ASME B29.1-2011 (R2016) , Precision Power Transmission Roller Chains, Attachment and Sprockets  
 Approved: 10/17/2016  
 Silvana Rodriguez-Bhatti

ASME B29.100-2011 (R2016) , Double-Pitch Roller Chains, Attachments, and Sprockets  
 Approved: 10/17/2016  
 Silvana Rodriguez-Bhatti

ASME B29.10M-1997 (R2019), Heavy Duty Offset Sidebar Power Transmission Roller Chains and Sprocket Teeth  
 Approved: 6/11/2019  
 Silvana Rodriguez-Bhatti

ASME B29.12M-1997 (R2018), Steel Bushed Rollerless Chains, Attachments and Sprockets  
 Approved: 11/1/2018  
 Silvana Rodriguez-Bhatti

ASME B29.15M-1997 (R2017), Steel Roller Type Conveyor Chains, Attachments, and Sprocket Teeth  
 Approved: 1/30/2017  
 Silvana Rodriguez-Bhatti

ASME B29.17M-1998 (R2018), Hinge Type Flat Top Conveyor Chains and Sprocket Teeth  
 Approved: 11/1/2018  
 Silvana Rodriguez-Bhatti

ASME B29.200-2001 (R2017), Welded-Steel-Type Mill Chains, Welded-Steel-Type Drag Chains, Attachments, and Sprocket Teeth  
 Approved: 1/30/2017  
 Silvana Rodriguez-Bhatti

ASME B29.21-2013 (R2018), 700 Class Chains, Attachments and Sprocket Teeth for Water and Sewage Treatment Plants  
 Approved: 6/29/2018  
 Silvana Rodriguez-Bhatti

ASME B29.22-2001 (R2016) , Drop Forged Rivetless Chains, Sprockets Teeth Drive Chain/Drive Dogs  
 Approved: 10/11/2016  
 Silvana Rodriguez-Bhatti

ASME B29.24-2002 (R2016), Roller Load Chains for Overhead Hoists  
 Approved: 10/12/2016  
 Silvana Rodriguez-Bhatti

ASME B29.26-2013, Fatigue Testing Power Transmission Roller Chain  
 Approved: 10/3/2013  
 Silvana Rodriguez-Bhatti

ASME B29.27-2002 (R2016), Single-Pitch and Dpuble-Pitch Hollow Pin Conveyor Chains and Attachments  
 Approved: 3/31/2016  
 Silvana Rodriguez-Bhatti

ASME B29.28-2015, High Strength Chains for Power Transmission and Tension Linkages  
 Approved: 9/9/2015  
 Silvana Rodriguez-Bhatti

ASME B29.2M-2007 (R2017), Inverted Tooth (Silent) Chains and Sprockets  
 Approved: 2/23/2017  
 Silvana Rodriguez-Bhatti

ASME B29.300-2015, Agricultural, Detachable and Pintle Chains, Attachments and Sprocket  
 Approved: 11/23/2015  
 Silvana Rodriguez-Bhatti

ASME B29.400-2001 (R2018), Combination, H Type Mill Chains and Sprockets  
 Approved: 4/20/2018  
 Silvana Rodriguez-Bhatti

ASME B29.8-2010 (R2017), Leaf Chains, Clevises and Sheaves  
 Approved: 2/23/2017  
 Silvana Rodriguez-Bhatti

ASME B30.1-2015, Jacks, Industrial Rollers, Air Casters and Hydraulic Gantries  
 Approved: 4/15/2015  
 Silvana Rodriguez-Bhatti

ASME B30.10-2019, Hooks  
 Approved: 9/3/2019  
 Silvana Rodriguez-Bhatti

ASME B30.12-2011, Handling Loads Suspended from Rotorcraft  
 Approved: 12/6/2011  
 Silvana Rodriguez-Bhatti

ASME B30.13-2017, Storage/Retrieval (S/R) Machines and Associated Equipment  
 Approved: 3/20/2017  
 Silvana Rodriguez-Bhatti

ASME B30.14-2015, Side Boom Tractors  
 Approved: 11/11/2015  
 Silvana Rodriguez-Bhatti

ASME B30.16-2017, Overhead Underhung and Stationary Hoists  
 Approved: 7/28/2017  
 Silvana Rodriguez-Bhatti

ASME B30.18-2016, Stacker Cranes (Top or Under Running Bridge, Multiple Girder with Top or Under Running Trolley Hoist)  
 Approved: 7/8/2016  
 Silvana Rodriguez-Bhatti

ASME B30.19-2016, Cableways  
 Approved: 4/18/2016  
 Silvana Rodriguez-Bhatti

ASME B30.2-2016, Overhead and Gantry Cranes (Top Running Bridge, Single or Multiple Girder, Top Running Trolley Hoist)  
 Approved: 12/21/2016  
 Silvana Rodriguez-Bhatti

ASME B30.20-2018, Below the Hook Lifting Devices  
 Approved: 4/24/2018  
 Silvana Rodriguez-Bhatti

ASME B30.21-2014, Lever Hoists (formerly Manually Lever Operated Hoists)  
 Approved: 1/27/2014  
 Silvana Rodriguez-Bhatti

ASME B30.22-2016, Articulating Boom Cranes  
 Approved: 4/26/2016  
 Silvana Rodriguez-Bhatti

ASME B30.23-2016, Personnel Lifting Systems  
 Approved: 11/7/2016  
 Silvana Rodriguez-Bhatti

ASME B30.24-2018, Container Cranes  
 Approved: 8/21/2018  
 Silvana Rodriguez-Bhatti

ASME B30.25-2018, Scrap and Material Handlers  
 Approved: 6/8/2018  
 Silvana Rodriguez-Bhatti

ASME B30.26-2015, Rigging Hardware <i>Approved: 8/6/2015</i> <i>Silvana Rodriguez-Bhatti</i>	ASME B31.3-2018, Process Piping <i>Approved: 8/8/2018</i> <i>Silvana Rodriguez-Bhatti</i>	ASME B31P-2017, Standard Heat Treatment for Fabrication Processes <i>Approved: 11/15/2017</i> <i>Silvana Rodriguez-Bhatti</i>
ASME B30.27-2014, Material Placement Systems <i>Approved: 2/19/2014</i> <i>Silvana Rodriguez-Bhatti</i>	ASME B31.4-2016, Pipeline Transportation Systems for Liquids and Slurries <i>Approved: 2/22/2016</i> <i>Silvana Rodriguez-Bhatti</i>	ASME B31Q-2018, Pipeline Personnel Qualification <i>Approved: 8/30/2018</i> <i>Silvana Rodriguez-Bhatti</i>
ASME B30.28-2015, Balance Lifting Units <i>Approved: 11/20/2015</i> <i>Silvana Rodriguez-Bhatti</i>	ASME B31.4-2019, Pipeline Transportation Systems for Liquids and Slurries <i>Approved: 7/18/2019</i> <i>Silvana Rodriguez-Bhatti</i>	ASME B31T-2018, Standard Toughness Requirements for Piping <i>Approved: 12/6/2018</i> <i>Silvana Rodriguez-Bhatti</i>
ASME B30.29-2018, Self-Erecting Tower Cranes <i>Approved: 1/17/2018</i> <i>Silvana Rodriguez-Bhatti</i>	ASME B31.5-2016, Refrigeration Piping and Heat Transfer Components <i>Approved: 4/12/2016</i> <i>Silvana Rodriguez-Bhatti</i>	ASME B32.100-2016, Preferred Metric Sizes for Flat, Round, Square, Rectangle, and Hexagon Metal Products <i>Approved: 6/29/2016</i> <i>Silvana Rodriguez-Bhatti</i>
ASME B30.3-2016, Tower Cranes <i>Approved: 2/3/2016</i> <i>Silvana Rodriguez-Bhatti</i>	ASME B31.5-2019, Refrigeration Piping and Heat Transfer Components <i>Approved: 6/21/2019</i> <i>Silvana Rodriguez-Bhatti</i>	ASME B36.10M-2018, Welded and Seamless Wrought Steel Pipe <i>Approved: 9/6/2018</i> <i>Silvana Rodriguez-Bhatti</i>
ASME B30.30-2019, Ropes <i>Approved: 1/29/2019</i> <i>Silvana Rodriguez-Bhatti</i>	ASME B31.8-2018, Gas Transmission and Distribution Piping Systems <i>Approved: 8/3/2018</i> <i>Silvana Rodriguez-Bhatti</i>	ASME B36.19M-2018, Stainless Steel Pipe <i>Approved: 8/13/2018</i> <i>Silvana Rodriguez-Bhatti</i>
ASME B30.4-2015, Portal and Pedestal Cranes <i>Approved: 5/19/2015</i> <i>Silvana Rodriguez-Bhatti</i>	ASME B31.8S-2018, Managing System Integrity of Gas Pipelines <i>Approved: 7/2/2018</i> <i>Silvana Rodriguez-Bhatti</i>	ASME B4.1-1967 (R2009), Preferred Limits And Fits For Cylindrical Parts <i>Approved: 5/20/2009</i> <i>Silvana Rodriguez-Bhatti</i>
ASME B30.5-2018, Mobile and Locomotive Cranes <i>Approved: 6/12/2018</i> <i>Silvana Rodriguez-Bhatti</i>	ASME B31.9-2017, Building Services Piping <i>Approved: 10/31/2017</i> <i>Silvana Rodriguez-Bhatti</i>	ASME B4.2-1978 (R2009), Preferred Metric Limits And Fits <i>Approved: 5/20/2009</i> <i>Silvana Rodriguez-Bhatti</i>
ASME B30.6-2015, Derricks <i>Approved: 6/18/2015</i> <i>Silvana Rodriguez-Bhatti</i>	ASME B31E (Addenda)-2010, Standard for the Seismic Design and Retrofit of Above-Ground Piping Systems <i>Approved: 5/13/2010</i> <i>Silvana Rodriguez-Bhatti</i>	ASME B40.100-2013, Pressure Gauges and Gauge Attachments <i>Approved: 10/14/2013</i> <i>Silvana Rodriguez-Bhatti</i>
ASME B30.7-2016, Winches <i>Approved: 8/3/2016</i> <i>Silvana Rodriguez-Bhatti</i>	ASME B31E-2008, Standard for the Seismic Design and Retrofit of Above Ground Piping Systmes <i>Approved: 4/21/2008</i> <i>Silvana Rodriguez-Bhatti</i>	ASME B40.200-2008 (R2013), Thermometers, Direct Reading and Remote Reading <i>Approved: 10/14/2013</i> <i>Silvana Rodriguez-Bhatti</i>
ASME B30.8-2015, Floating Cranes and Floating Derricks <i>Approved: 3/18/2015</i> <i>Silvana Rodriguez-Bhatti</i>	ASME B31G-2012 (R2017), Manual for Determining the Remaining Strength of Corroded Pipelines: A Supplement to B31, Code for Pressure Piping <i>Approved: 9/12/2017</i> <i>Silvana Rodriguez-Bhatti</i>	ASME B46.1-2009, Surface Texture, Surface Roughness, Waviness and Lay <i>Approved: 10/22/2009</i> <i>Silvana Rodriguez-Bhatti</i>
ASME B30.9-2018, Slings <i>Approved: 3/23/2018</i> <i>Silvana Rodriguez-Bhatti</i>	ASME B31J-2017, Standard Test Method for Determining Stress Intensification Factors (i-Factors) for Metallic Piping Components <i>Approved: 1/11/2017</i> <i>Silvana Rodriguez-Bhatti</i>	ASME B47.1-2007 (R2012), Gage Blanks <i>Approved: 2/23/2012</i> <i>Silvana Rodriguez-Bhatti</i>
ASME B31.1-2018, Power Piping <i>Approved: 6/27/2018</i> <i>Silvana Rodriguez-Bhatti</i>		ASME B5.10-1994 (S2019), Machine Tapers <i>Approved: 3/22/2019</i> <i>Silvana Rodriguez-Bhatti</i>

ASME B5.11-1964 (R2018), Spindle Noses and Adjustable Adaptors for Multiple Spindle Drilling Heads  
*Approved: 8/13/2018*  
*Silvana Rodriguez-Bhatti*

ASME B5.18-1972 (S2019), Spindle Noses and Tool Shanks for Milling Machines  
*Approved: 3/22/2019*  
*Silvana Rodriguez-Bhatti*

ASME B5.1M-1985 (S2019), T-Slots – Their Bolts, Nuts, and Tongues  
*Approved: 5/21/2019*  
*Silvana Rodriguez-Bhatti*

ASME B5.35-1983 (R2018), Machine Mounting Specifications for Abrasive Discs and Plate Mounted Wheels  
*Approved: 8/13/2018*  
*Silvana Rodriguez-Bhatti*

ASME B5.40-1977 (S2019), Spindle Noses and Tool Shanks for Horizontal Boring Machines  
*Approved: 3/22/2019*  
*Silvana Rodriguez-Bhatti*

ASME B5.47-1972 (R2018), Milling Machine Arbor Assemblies  
*Approved: 8/13/2018*  
*Silvana Rodriguez-Bhatti*

ASME B5.48-1977 (S2018), Ball Screws  
*Approved: 8/21/2018*  
*Silvana Rodriguez-Bhatti*

ASME B5.50-2015, 7/24 Taper Tool to Spindle Connection for Automatic Tool Change  
*Approved: 5/21/2015*  
*Silvana Rodriguez-Bhatti*

ASME B5.52-2003 (R2019), Power Presses - General Purpose Single Gap Type  
*Approved: 5/23/2019*  
*Silvana Rodriguez-Bhatti*

ASME B5.54-2010 (R2015), Methods for Performance Evaluation of Computer Numerically Controlled Machining Centers  
*Approved: 6/9/2015*  
*Silvana Rodriguez-Bhatti*

ASME B5.55M-1994 (S2018), Specification and Performance Standard, Power Press Brakes  
*Approved: 8/21/2018*  
*Silvana Rodriguez-Bhatti*

ASME B5.56M-1994 (R2014), Specification and Performance Standard, Power Shears  
*Approved: 4/17/2014*  
*Silvana Rodriguez-Bhatti*

ASME B5.56M-1994 (R2019), Specification and Performance Standard, Power Shears  
*Approved: 5/23/2019*  
*Silvana Rodriguez-Bhatti*

ASME B5.57-2012 (R2017), Methods for Performance Evaluation of Computer Numerically Controlled Lathes and Turning Centers  
*Approved: 12/14/2017*  
*Silvana Rodriguez-Bhatti*

ASME B5.60-2014 (R2019), Workholding Chucks: Jaw Type Chucks  
*Approved: 6/28/2019*  
*Silvana Rodriguez-Bhatti*

ASME B5.60-2014, Workholding Chucks: Jaw Type Chucks  
*Approved: 9/15/2014*  
*Silvana Rodriguez-Bhatti*

ASME B5.61-2003 (R2019), Power Presses - General Purpose Single Action Straight Side Type  
*Approved: 5/23/2019*  
*Silvana Rodriguez-Bhatti*

ASME B5.62-2016, Hollow Taper Tooling with Flange-Face Contact  
*Approved: 8/22/2016*  
*Silvana Rodriguez-Bhatti*

ASME B5.8-2001 (R2016), Chucks and Chuck Jaws  
*Approved: 10/11/2016*  
*Silvana Rodriguez-Bhatti*

ASME B5.9-1967 (S2019), Spindle Noses for Tool Room Lathes, Engine Lathes, Turret Lathes, and Automatic Lathes  
*Approved: 3/22/2019*  
*Silvana Rodriguez-Bhatti*

ASME B73.1-2012, Specification for Horizontal End Suction Centrifugal Pumps for Chemical Process  
*Approved: 11/14/2012*  
*Silvana Rodriguez-Bhatti*

ASME B73.2-2016, Specification for Vertical In-Line Centrifugal Pumps for Chemical Process  
*Approved: 11/16/2016*  
*Silvana Rodriguez-Bhatti*

ASME B73.3-2015, Specification for Sealless Horizontal End Suction Centrifugal Pumps for Chemical Process  
*Approved: 10/30/2015*  
*Silvana Rodriguez-Bhatti*

ASME B89.1.10M-2001 (R2016), Dial Indicators (for Linear Measurement)  
*Approved: 11/22/2016*  
*Silvana Rodriguez-Bhatti*

ASME B89.1.13-2013, Micrometers  
*Approved: 2/20/2013*  
*Silvana Rodriguez-Bhatti*

ASME B89.1.14-2018, Calipers  
*Approved: 2/27/2018*  
*Silvana Rodriguez-Bhatti*

ASME B89.1.17-2001 (R2017), Measurement of Thread Measuring Wires  
*Approved: 8/21/2017*  
*Silvana Rodriguez-Bhatti*

ASME B89.1.5-1998 (R2019), Measurement of Plain External Diameters for Use as Master Discs or Cylindrical Plug Gages  
*Approved: 8/1/2019*  
*Silvana Rodriguez-Bhatti*

ASME B89.1.6-2002 (R2017), Measurement of Plain Internal Diameter for Use as Master Ring or Ring Gauges  
*Approved: 10/11/2017*  
*Silvana Rodriguez-Bhatti*

ASME B89.1.7-2009 (R2019), Performance Standard For Steel Measuring Tapes  
*Approved: 2/27/2019*  
*Silvana Rodriguez-Bhatti*

ASME B89.1.8-2011 (R2016), Performance Evaluation of Displacement-Measuring Laser Interferometers  
*Approved: 10/17/2016*  
*Silvana Rodriguez-Bhatti*

ASME B89.1.9-2002 (R2012), Gage Blocks  
*Approved: 11/29/2012*  
*Silvana Rodriguez-Bhatti*

ASME B89.3.4-2010 (R2019), Axes of Rotation: Methods for Specifying and Testing  
*Approved: 8/1/2019*  
*Silvana Rodriguez-Bhatti*

ASME B89.3.7-2013 (R2018), Granite Surface Plates  
*Approved: 7/20/2018*  
*Silvana Rodriguez-Bhatti*

ASME B89.4.10-2000 (R2011), Methods for Performance Evaluation of Coordinate Measuring System Software  
*Approved: 8/26/2011*  
*Silvana Rodriguez-Bhatti*

ASME B89.4.19-2006 (R2015), Performance Evaluation of Laser Based Spherical Coordinate Measurement Systems  
*Approved: 2/11/2015*  
*Silvana Rodriguez-Bhatti*

ASME B89.4.22-2004 (R2019), Methods for Performance Evaluation of Articulated Arm Coordinate Measuring Machines (CMM) <i>Approved: 3/8/2019</i> <i>Silvana Rodriguez-Bhatti</i>	ASME B94.51M-2010 (S2016), Specifications for Band Saw Blades (Metal Cutting) <i>Approved: 5/18/2016</i> <i>Silvana Rodriguez-Bhatti</i>	ASME BPVC Section II-2019 (Parts A, B, and D), Part A - Ferrous Material Specifications; Part B - Nonferrous Material Specifications; Part D - Materials Properties <i>Approved: 4/25/2019</i> <i>Silvana Rodriguez-Bhatti</i>
ASME B89.6.2-1973 (R2017), Temperature and Humidity Environment for Dimensional Measurement <i>Approved: 7/11/2017</i> <i>Silvana Rodriguez-Bhatti</i>	ASME B94.52M-1999 (S2016) , Specifications for Hacksaw Blades <i>Approved: 5/18/2016</i> <i>Silvana Rodriguez-Bhatti</i>	ASME BPVC Section III-2017 , Rules for Construction of Nuclear Facility Components <i>Approved: 4/11/2017</i> <i>Silvana Rodriguez-Bhatti</i>
ASME B89.7.2-2014 (R2019), Dimensional Measurement Planning <i>Approved: 8/1/2019</i> <i>Silvana Rodriguez-Bhatti</i>	ASME B94.54-1999 (R2015), Specifications for Hole Saws, Hole Saw Arbors, and Hole Saw Accessories <i>Approved: 6/9/2015</i> <i>Silvana Rodriguez-Bhatti</i>	ASME BPVC Section III-2019, Rules for Construction of Nuclear Facility Components <i>Approved: 4/25/2019</i> <i>Silvana Rodriguez-Bhatti</i>
ASME B89.7.3.1-2001 (R2011), Guidelines For Decision Rules: Considering Measurement Uncertainty in Determining Conformance to Specifications <i>Approved: 10/19/2011</i> <i>Silvana Rodriguez-Bhatti</i>	ASME B94.55M-1985 (R2019), Tool Life Testing with Single-Point Turning Tools <i>Approved: 5/23/2019</i> <i>Silvana Rodriguez-Bhatti</i>	ASME BPVC Section IV-2017, Rules for Construction of Heating Boilers <i>Approved: 4/11/2017</i> <i>Silvana Rodriguez-Bhatti</i>
ASME B89.7.3.1-2001 (R2019), Guidelines For Decision Rules: Considering Measurement Uncertainty in Determining Conformance to Specifications <i>Approved: 8/1/2019</i> <i>Silvana Rodriguez-Bhatti</i>	ASME B94.6-1984 (S2016), Knurling <i>Approved: 5/18/2016</i> <i>Silvana Rodriguez-Bhatti</i>	ASME BPVC Section IV-2019, Rules for Construction of Heating Boilers <i>Approved: 4/25/2019</i> <i>Silvana Rodriguez-Bhatti</i>
ASME B89.7.3.3-2002 (R2017), Guidelines for Assessing the Reliability of Dimensional Measurement Uncertainty Statements <i>Approved: 6/8/2017</i> <i>Silvana Rodriguez-Bhatti</i>	ASME B94.7-1980 (S2016), Hobs <i>Approved: 5/18/2016</i> <i>Silvana Rodriguez-Bhatti</i>	ASME BPVC Section IX-2017, Welding, Brazing and Fusing Qualifications <i>Approved: 4/11/2017</i> <i>Silvana Rodriguez-Bhatti</i>
ASME B89.7.3.3-2002 (R2017), Guidelines for Assessing the Reliability of Dimensional Measurement Uncertainty Statements <i>Approved: 6/8/2017</i> <i>Silvana Rodriguez-Bhatti</i>	ASME B94.9-2008 (R2018), Taps: Ground and Cut Threads with Cut Thread Appendix (Inch and Metric Sizes) <i>Approved: 7/13/2018</i> <i>Silvana Rodriguez-Bhatti</i>	ASME BPVC Section IX-2019, Welding, Brazing and Fusing Qualifications <i>Approved: 4/25/2019</i> <i>Silvana Rodriguez-Bhatti</i>
ASME B94.19-1997 (R2019), Milling Cutters and End Mills <i>Approved: 5/23/2019</i> <i>Silvana Rodriguez-Bhatti</i>	ASME BPE-2016, Bioprocessing Equipment <i>Approved: 6/27/2016</i> <i>Silvana Rodriguez-Bhatti</i>	ASME BPVC Section V-2017, Nondestructive Examination <i>Approved: 4/11/2017</i> <i>Silvana Rodriguez-Bhatti</i>
ASME B94.2-1995 (R2015), Reamers <i>Approved: 3/30/2015</i> <i>Silvana Rodriguez-Bhatti</i>	ASME BPE-2019, Bioprocessing Equipment <i>Approved: 2/27/2019</i> <i>Silvana Rodriguez-Bhatti</i>	ASME BPVC Section V-2019, Nondestructive Examination <i>Approved: 4/25/2019</i> <i>Silvana Rodriguez-Bhatti</i>
ASME B94.33-1996 (S2016), Jig Bushings <i>Approved: 5/18/2016</i> <i>Silvana Rodriguez-Bhatti</i>	ASME BPVC Section I-2017 , Rules for Construction of Power Boilers <i>Approved: 4/11/2017</i> <i>Silvana Rodriguez-Bhatti</i>	ASME BPVC Section VI-2017, Recommended Rules for the Care and Operation of Heating Boilers <i>Approved: 4/11/2017</i> <i>Silvana Rodriguez-Bhatti</i>
ASME B94.33.1-1997 (S2016) , Jig Bushings, Metric <i>Approved: 6/29/2016</i> <i>Silvana Rodriguez-Bhatti</i>	ASME BPVC Section I-2019, Rules For Construction Of Power Boilers <i>Approved: 4/25/2019</i> <i>Silvana Rodriguez-Bhatti</i>	ASME BPVC Section VI-2019, Recommended Rules for the Care and Operation of Heating Boilers <i>Approved: 4/25/2019</i> <i>Silvana Rodriguez-Bhatti</i>
ASME B94.35-1972 (R2015), Drill Drivers, Split-Sleeve, Collet Type <i>Approved: 3/27/2015</i> <i>Silvana Rodriguez-Bhatti</i>	ASME BPVC Section II-2017, Part C - Specifications for Welding Rods, Electrodes, and Filler Metals <i>Approved: 4/11/2017</i> <i>Silvana Rodriguez-Bhatti</i>	ASME BPVC Section VII-2019, Recommended Guidelines for the Care of Power Boilers <i>Approved: 4/25/2019</i> <i>Silvana Rodriguez-Bhatti</i>
ASME B94.49-1975 (R2010), Spade Drill Blades and Spade Drill Holders <i>Approved: 8/3/2010</i> <i>Silvana Rodriguez-Bhatti</i>	ASME BPVC Section II-2019, Part C - Specifications for Welding Rods, Electrodes, and Filler Metals <i>Approved: 4/25/2019</i> <i>Silvana Rodriguez-Bhatti</i>	

ASME BPVC Section VIII-2019, Rules for Construction of Pressure Vessels <i>Approved: 4/25/2019</i> <i>Silvana Rodriguez-Bhatti</i>	ASME HRT-1-2016, Rules for Hoisting, Rigging, and Transporting Equipment for Nuclear Facilities <i>Approved: 4/12/2016</i> <i>Silvana Rodriguez-Bhatti</i>	ASME MFC-16-2014 (R2019), Measurement of Fluid Flow in Closed Conduit by Means of Electromagnetic Flowmeters <i>Approved: 3/14/2019</i> <i>Silvana Rodriguez-Bhatti</i>
ASME BPVC Section X-2017, Fiber-Reinforced Plastic Pressure Vessels <i>Approved: 4/11/2017</i> <i>Silvana Rodriguez-Bhatti</i>	ASME HST-1-2017, Performance Standard for Electric Chain Hoists <i>Approved: 11/17/2017</i> <i>Silvana Rodriguez-Bhatti</i>	ASME MFC-16-2014, Measurement of Fluid Flow in Closed Conduit by Means of Electromagnetic Flowmeters <i>Approved: 1/28/2014</i> <i>Silvana Rodriguez-Bhatti</i>
ASME BPVC Section X-2019, Fiber-Reinforced Plastic Pressure Vessels <i>Approved: 4/25/2019</i> <i>Silvana Rodriguez-Bhatti</i>	ASME HST-2-2018, Performance Standard for Hand Chain Manually Operated Chain Hoists <i>Approved: 10/30/2018</i> <i>Silvana Rodriguez-Bhatti</i>	ASME MFC-18M-2001 (R2016) , Measurement of Fluid Flow Using Variable Area Meter <i>Approved: 9/23/2016</i> <i>Silvana Rodriguez-Bhatti</i>
ASME BPVC Section XI-2019, Rules for Inservice Inspection of Nuclear Power Plant Components <i>Approved: 4/25/2019</i> <i>Silvana Rodriguez-Bhatti</i>	ASME HST-3-2017, Performance Standard for Lever Hoists <i>Approved: 1/6/2017</i> <i>Silvana Rodriguez-Bhatti</i>	ASME MFC 21.1-2015, Measurement of Gas Flow by Means of Capillary Tube Thermal Mass Flowmeters and Controllers <i>Approved: 5/19/2015</i> <i>Silvana Rodriguez-Bhatti</i>
ASME BPVC Section XII-2017, Rules for Construction and Continued Service of Transport Tanks <i>Approved: 4/11/2017</i> <i>Silvana Rodriguez-Bhatti</i>	ASME HST-4-2016, Performance Standard for Overhead Electric Wire Rope Hoists <i>Approved: 1/26/2016</i> <i>Silvana Rodriguez-Bhatti</i>	ASME MFC-21.2-2010 (R2018), Thermal Mass Meters - Dispersion Flowmeters <i>Approved: 9/25/2018</i> <i>Silvana Rodriguez-Bhatti</i>
ASME BPVC Section XII-2019, Rules for Construction and Continued Service of Transport Tanks <i>Approved: 4/25/2019</i> <i>Silvana Rodriguez-Bhatti</i>	ASME HST-5-2014, Performance Standard for Air Chain Hoists <i>Approved: 2/18/2014</i> <i>Silvana Rodriguez-Bhatti</i>	ASME MFC-22-2007 (2014), Measurement of Liquid by Turbine Flowmeters <i>Approved: 4/15/2014</i> <i>Silvana Rodriguez-Bhatti</i>
ASME BTH-1-2017 , Design of Below-the-Hook Lifting Devices <i>Approved: 1/6/2017</i> <i>Silvana Rodriguez-Bhatti</i>	ASME HST-6-2015, Performance Standard for Air Wire Rope Hoists <i>Approved: 12/14/2015</i> <i>Silvana Rodriguez-Bhatti</i>	ASME MFC-26-2018, Measurement of Gas Flow by Bellmouth Inlet Flowmeters <i>Approved: 9/25/2018</i> <i>Silvana Rodriguez-Bhatti</i>
ASME CSD-1-2018, Controls and Safety Devices for Automatically Fired Boilers <i>Approved: 8/23/2018</i> <i>Silvana Rodriguez-Bhatti</i>	ASME MFC-1-2014, Glossary of Terms Used in the Measurement of Fluid Flow in Pipes <i>Approved: 8/1/2014</i> <i>Silvana Rodriguez-Bhatti</i>	ASME MFC-2M-1983 (R2013), Measurement Uncertainty for Fluid Flow in Closed Conduits <i>Approved: 8/12/2013</i> <i>Silvana Rodriguez-Bhatti</i>
ASME EA-1-2009 (R2014), Energy Assessment for Process Heating Systems <i>Approved: 9/12/2014</i> <i>Silvana Rodriguez-Bhatti</i>	ASME MFC-10M-2000 (R2011), Method for Establishing Installation Effects on Flowmeters <i>Approved: 6/8/2011</i> <i>Silvana Rodriguez-Bhatti</i>	ASME MFC-3M-2004 (R2017), Measurement of Fluid Flow in Pipes Using Orifice, Nozzle, and Venturi <i>Approved: 5/11/2017</i> <i>Silvana Rodriguez-Bhatti</i>
ASME EA-2-2009 (R2015), Energy Assessment for Pumping Systems <i>Approved: 6/16/2015</i> <i>Silvana Rodriguez-Bhatti</i>	ASME MFC-11M-2006 (R2014), Measurement of Fluid Flow in Closed Conduits by Means of Coriolis Mass Flowmeters <i>Approved: 4/15/2014</i> <i>Silvana Rodriguez-Bhatti</i>	ASME MFC-4M-1986 (R2016), Measurement of Gas Flow by Turbine Meters <i>Approved: 9/23/2016</i> <i>Silvana Rodriguez-Bhatti</i>
ASME EA-3-2009 (R2014), Energy Assessment of Industrial Steam Systems <i>Approved: 9/12/2014</i> <i>Silvana Rodriguez-Bhatti</i>	ASME MFC-12M-2006 (R2014), Measurement of Fluid Flow in Closed Conduits Using Multiport Averaging Pitot Primary Elements <i>Approved: 4/15/2014</i> <i>Silvana Rodriguez-Bhatti</i>	ASME MFC-5.1-2011 (R2018), Measurement of Liquid Flow in Closed Conduits Using Transit Time Ultrasonic Flowmeters <i>Approved: 9/20/2018</i> <i>Silvana Rodriguez-Bhatti</i>
ASME EA-4-2010 (R2015), Energy Assessment for Compressed Air Systems  <i>Approved: 6/16/2015</i> <i>Silvana Rodriguez-Bhatti</i>	ASME MFC-14M-2003 (R2018), Measurement of Fluid Flow Using Small Bore Precision Orifice Meters <i>Approved: 4/24/2018</i> <i>Silvana Rodriguez-Bhatti</i>	ASME MFC-5.3-2013 (R2018), Measurement of Liquid Flow in Closed Conduits Using Doppler Ultrasonic Flowmeters <i>Approved: 7/20/2018</i> <i>Silvana Rodriguez-Bhatti</i>

ASME MFC-6-2013 (R2018), Measurement of Fluid Flow in Pipes Using Vortex Flow Meters  
*Approved: 7/18/2018*  
*Silvana Rodriguez-Bhatti*

ASME MFC-7-2016, Measurement of Gas Flow by Means of Critical Flow Venturi Nozzles  
*Approved: 1/6/2016*  
*Silvana Rodriguez-Bhatti*

ASME MFC-8M-2001 (R2016), Fluid Flow in Closed Conduits - Connections for Pressure Signal Transmission between Primary and Secondary Devices  
*Approved: 10/11/2016*  
*Silvana Rodriguez-Bhatti*

ASME MFC-9M-1998 (R2011), Measurement of Liquid Flow in Closed Conduits by Weighting Method  
*Approved: 6/8/2011*  
*Silvana Rodriguez-Bhatti*

ASME N511-2017, In-Service Testing of Nuclear Air Treatment, Heating, Ventilating, and Air-Conditioning Systems  
*Approved: 11/1/2017*  
*Silvana Rodriguez-Bhatti*

ASME NM-2-2018, Glass-Fiber-Reinforced Thermosetting Resin Piping Systems  
*Approved: 8/13/2018*  
*Silvana Rodriguez-Bhatti*

ASME NM-3-2018, Nonmetallic Materials  
*Approved: 8/16/2018*  
*Silvana Rodriguez-Bhatti*

ASME NM.1-2018, Thermoplastic Piping Systems  
*Approved: 7/27/2018*  
*Silvana Rodriguez-Bhatti*

ASME NML-1-2019, Rules for the Movement of Loads using Overhead Handling Equipment in Nuclear Facilities  
*Approved: 6/5/2019*  
*Silvana Rodriguez-Bhatti*

ASME NOG-1-2015, Rules for Construction of Overhead and Gantry Cranes (Top Running Bridge, Multiple Girder)  
*Approved: 1/8/2015*  
*Silvana Rodriguez-Bhatti*

ASME NQA-1-2017, Quality Assurance Requirements for Nuclear Facility Applications  
*Approved: 12/6/2017*  
*Silvana Rodriguez-Bhatti*

ASME NQA-1-2019, Quality Assurance Requirements for Nuclear Facility Applications  
*Approved: 9/4/2019*  
*Silvana Rodriguez-Bhatti*

ASME NUM-1-2016, Rules for Construction of Cranes, Monorails, and Hoists (with Bridge or Trolley or Hoist of the Underhung Type)  
*Approved: 6/16/2016*  
*Silvana Rodriguez-Bhatti*

ASME OM-2017, Operation and Maintenance of Nuclear Power Plants  
*Approved: 5/4/2017*  
*Silvana Rodriguez-Bhatti*

ASME OM Code-2004, Code for Operation and Maintenance of Nuclear Power Plants  
*Approved: 7/23/2004*  
*Silvana Rodriguez-Bhatti*

ASME OM-S/G-2007, Standards and Guides for Operation and Maintenance of Nuclear Power Plants  
*Approved: 8/17/2007*  
*Silvana Rodriguez-Bhatti*

ASME OMa-2011, Operation and Maintenance of Nuclear Power Plants  
*Approved: 6/7/2011*  
*Silvana Rodriguez-Bhatti*

ASME OMa Code-2005, Code for Operation and Maintenance of Nuclear Power Plants  
*Approved: 7/8/2005*  
*Silvana Rodriguez-Bhatti*

ASME OMB Code-2006, Code for Operation and Maintenance of Nuclear Power Plants  
*Approved: 7/6/2006*  
*Silvana Rodriguez-Bhatti*

ASME P30.1-2019, Planning For Load Handling Activities  
*Approved: 5/3/2019*  
*Silvana Rodriguez-Bhatti*

ASME PASE-2019, Safety Standard for Portable Automotive Service Equipment  
*Approved: 3/25/2019*  
*Silvana Rodriguez-Bhatti*

ASME PCC-1-2019, Guidelines for Pressure Boundary Bolted Flange Joint Assembly  
*Approved: 1/17/2019*  
*Silvana Rodriguez-Bhatti*

ASME PCC-2-2018, Repair of Pressure Equipment and Piping  
*Approved: 8/8/2018*  
*Silvana Rodriguez-Bhatti*

ASME PCC-3-2017, Inspection Planning Using Risk Based Methods  
*Approved: 5/11/2017*  
*Silvana Rodriguez-Bhatti*

ASME PDS-1.1-2013, Product Definition Standards (PDS) - Dimensioning, Tolerancing, Surface Texture, and Metrology Standards - Rules for Drawings with Incomplete Reference to Applicable Drawing Standard  
*Approved: 12/20/2013*  
*Silvana Rodriguez-Bhatti*

ASME POM 101-2013 (R2019), Performance Related Outage Inspections  
*Approved: 2/5/2019*  
*Silvana Rodriguez-Bhatti*

ASME POM 102-2014, Operating Walkdowns of Power Plants  
*Approved: 8/15/2014*  
*Silvana Rodriguez-Bhatti*

ASME PTC 1-2015, General Instructions  
*Approved: 9/9/2015*  
*Silvana Rodriguez-Bhatti*

ASME PTC 10-1997 (R2014), Performance Test Code on Compressors and Exhausters  
*Approved: 3/14/2014*  
*Silvana Rodriguez-Bhatti*

ASME PTC 11-2008 (R2018), Fans  
*Approved: 6/27/2018*  
*Silvana Rodriguez-Bhatti*

ASME PTC 12.1-2015, Closed Feedwater Heaters  
*Approved: 10/26/2015*  
*Silvana Rodriguez-Bhatti*

ASME PTC 12.2-2010 (R2015), Steam Surface Condensers  
*Approved: 4/17/2015*  
*Silvana Rodriguez-Bhatti*

ASME PTC 12.3-1997 (R2019), Performance Test Code on Deaerators  
*Approved: 6/18/2019*  
*Silvana Rodriguez-Bhatti*

ASME PTC 12.4-1992 (R2019), Moisture Separator Reheaters  
*Approved: 7/19/2019*  
*Silvana Rodriguez-Bhatti*

ASME PTC 12.5-2000 (R2015), Single Phase Heat Exchangers  
*Approved: 7/6/2015*  
*Silvana Rodriguez-Bhatti*

ASME PTC 13-2018, Wire-To-Air Performance Test Code for Blower Systems  
*Approved: 7/20/2018*  
*Silvana Rodriguez-Bhatti*

ASME PTC 17-1973 (R2012), Performance Test Code - Reciprocating Internal-Combustion Engines  
 Approved: 5/9/2012  
 Silvana Rodriguez-Bhatti

ASME PTC 18-2011, Hydraulic Turbines and Pump - Turbines  
 Approved: 4/25/2011  
 Silvana Rodriguez-Bhatti

ASME PTC 19.1-2018, Test Uncertainty  
 Approved: 9/20/2018  
 Silvana Rodriguez-Bhatti

ASME PTC 19.11-2008 (R2018), Steam and Water Sampling, Conditioning, and Analysis in the Power Cycle  
 Approved: 8/3/2018  
 Silvana Rodriguez-Bhatti

ASME PTC 19.2-2010 (R2015), Pressure Measurement  
 Approved: 6/10/2015  
 Silvana Rodriguez-Bhatti

ASME PTC 19.22-2007 (R2017), Data Acquisition Systems  
 Approved: 7/12/2017  
 Silvana Rodriguez-Bhatti

ASME PTC 19.3TW-2016, Thermowells  
 Approved: 1/5/2016  
 Silvana Rodriguez-Bhatti

ASME PTC 19.5-2004 (R2013), Flow Measurement  
 Approved: 2/19/2013  
 Silvana Rodriguez-Bhatti

ASME PTC 19.6-2018, Electrical Power Measurements  
 Approved: 2/27/2018  
 Silvana Rodriguez-Bhatti

ASME PTC 2-2001 (R2014), Definitions and Values  
 Approved: 3/11/2014  
 Silvana Rodriguez-Bhatti

ASME PTC 22-2014, Gas Turbines  
 Approved: 6/9/2014  
 Silvana Rodriguez-Bhatti

ASME PTC 23-2003 (R2014), Atmospheric Water Cooling Equipment  
 Approved: 3/11/2014  
 Silvana Rodriguez-Bhatti

ASME PTC 25-2018, Pressure Relief Devices  
 Approved: 10/24/2018  
 Silvana Rodriguez-Bhatti

ASME PTC 29-2005 (R2015), Speed Governing Systems for Hydraulic Turbine Generator Units  
 Approved: 7/6/2015  
 Silvana Rodriguez-Bhatti

ASME PTC 30-1991 (R2016), Air Cooled Heat Exchangers  
 Approved: 3/9/2016  
 Silvana Rodriguez-Bhatti

ASME PTC 30.1-2007 (R2012), Air Cooled Steam Condensers  
 Approved: 6/5/2012  
 Silvana Rodriguez-Bhatti

ASME PTC 31-2011 (R2017), High-Purity Water Treatment System  
 Approved: 1/24/2017  
 Silvana Rodriguez-Bhatti

ASME PTC 34-2017, Waste Combustors with Energy Recovery  
 Approved: 1/6/2017  
 Silvana Rodriguez-Bhatti

ASME PTC 36-2018, Measurement of Industrial Sound  
 Approved: 5/15/2018  
 Silvana Rodriguez-Bhatti

ASME PTC 39-2005 (R2010), Steam Traps  
 Approved: 6/14/2010  
 Silvana Rodriguez-Bhatti

ASME PTC 4-2013, Fired Steam Generators  
 Approved: 11/21/2013  
 Silvana Rodriguez-Bhatti

ASME PTC 4.2-1969 (R2016), Coal Pulverizers  
 Approved: 3/24/2016  
 Silvana Rodriguez-Bhatti

ASME PTC 4.3-2017, Air Heaters  
 Approved: 2/14/2017  
 Silvana Rodriguez-Bhatti

ASME PTC 4.4-2008 (R2013), Gas Turbine Heat Recovery Steam Generators  
 Approved: 5/28/2013  
 Silvana Rodriguez-Bhatti

ASME PTC 40-2017, Flue Gas Desulfurization Units Performance Test Code  
 Approved: 5/23/2017  
 Silvana Rodriguez-Bhatti

ASME PTC 46-2015, Overall Plant Performance  
 Approved: 9/25/2015  
 Silvana Rodriguez-Bhatti

ASME PTC 47-2006 (R2011), Integrated Gasification Combined Cycle Power Generation Plants  
 Approved: 6/17/2011  
 Silvana Rodriguez-Bhatti

ASME PTC 47.1-2017, Air Separation Unit  
 Approved: 12/14/2017  
 Silvana Rodriguez-Bhatti

ASME PTC 47.2-2019, Performance Test Code of the Gasification Block of an Integrated Gasification Combined Cycle Power Plant  
 Approved: 7/19/2019  
 Silvana Rodriguez-Bhatti

ASME PTC 47.4-2015, Performance Test Code for the Power Block of an Integrated Gasification Combined Cycle Power Plant  
 Approved: 5/22/2015  
 Silvana Rodriguez-Bhatti

ASME PTC 50-2002 (R2014), Fuel Cell Power Systems Performance  
 Approved: 3/12/2014  
 Silvana Rodriguez-Bhatti

ASME PTC 50-2002 (R2019), Fuel Cell Power Systems Performance  
 Approved: 6/21/2019  
 Silvana Rodriguez-Bhatti

ASME PTC 51-2011 (R2016), Gas Turbine Inlet Air Conditioning Equipment  
 Approved: 8/11/2016  
 Silvana Rodriguez-Bhatti

ASME PTC 55-2013 (R2018), Gas Turbine Aircraft Engines  
 Approved: 8/13/2018  
 Silvana Rodriguez-Bhatti

ASME PTC 6-2004 (R2014), Steam Turbines  
 Approved: 4/8/2014  
 Silvana Rodriguez-Bhatti

ASME PTC 6.2-2011 (R2016), Steam Turbines in Combined Cycles  
 Approved: 3/24/2016  
 Silvana Rodriguez-Bhatti

ASME PTC 6A-2000 (R2016), Appendix A to PTC 6, the Test Code for Steam Turbines  
 Approved: 3/24/2016  
 Silvana Rodriguez-Bhatti

ASME PTC 6S-1988 (R2019), Procedures for Routine Performance Tests of Steam Turbines  
 Approved: 8/9/2019  
 Silvana Rodriguez-Bhatti

<p>ASME PTC 70-2009 (R2019), Performance Test Code on Ramp Rates <i>Approved: 6/28/2019</i> <i>Silvana Rodriguez-Bhatti</i></p>	<p>ASME RAM-2-2016, Reliability, Availability, and Maintainability Program Development Process for Existing Power Plants <i>Approved: 12/2/2016</i> <i>Silvana Rodriguez-Bhatti</i></p>	<p>ASME V&amp;V 10.1-2012, An Illustration of the Concepts of Verification and Validation in Computational Solid Mechanics <i>Approved: 3/7/2012</i> <i>Silvana Rodriguez-Bhatti</i></p>
<p>ASME PVHO-1-2016, Safety Standard for Pressure Vessels for Human Occupancy <i>Approved: 1/20/2016</i> <i>Silvana Rodriguez-Bhatti</i></p>	<p>ASME RT-1-2015, Safety Standard for Structural Requirements for Light Rail Vehicles <i>Approved: 9/9/2015</i> <i>Silvana Rodriguez-Bhatti</i></p>	<p>ASME V&amp;V 20-2009 (R2016), Standard for Verification and Validation in Computational Fluid Dynamics and Heat Transfer <i>Approved: 5/4/2016</i> <i>Silvana Rodriguez-Bhatti</i></p>
<p>ASME PVHO-2-2016, Safety Standard for Pressure Vessels for Human Occupancy: In-Service Guidelines <i>Approved: 1/6/2016</i> <i>Silvana Rodriguez-Bhatti</i></p>	<p>ASME RT-2-2014, Safety Standard for Structural Requirements for Heavy Rail Transit Vehicles <i>Approved: 1/28/2014</i> <i>Silvana Rodriguez-Bhatti</i></p>	<p>ASME V&amp;V 40-2018, Standard for Verification and Validation in Computational Methods for Medical Devices <i>Approved: 8/16/2018</i> <i>Silvana Rodriguez-Bhatti</i></p>
<p>ASME QEI-1-2018 , Standard for the Qualification of Elevator Inspectors <i>Approved: 6/29/2018</i> <i>Silvana Rodriguez-Bhatti</i></p>	<p>ASME RTP-1-2017, Reinforced Thermoset Plastic Corrosion-Resistant Equipment <i>Approved: 8/3/2017</i> <i>Silvana Rodriguez-Bhatti</i></p>	<p>ASME Y14.1-2012, Decimal Inch Drawing Sheet Size and Format <i>Approved: 12/19/2012</i> <i>Silvana Rodriguez-Bhatti</i></p>
<p>ASME QME-1-2017, Qualification of Active Mechanical Equipment Used in Nuclear Power Plants <i>Approved: 3/21/2017</i> <i>Silvana Rodriguez-Bhatti</i></p>	<p>ASME RTP-1-2019, Reinforced Thermoset Plastic Corrosion-Resistant Equipment <i>Approved: 7/26/2019</i> <i>Silvana Rodriguez-Bhatti</i></p>	<p>ASME Y14.100-2017, Engineering Drawing Practices <i>Approved: 6/22/2017</i> <i>Silvana Rodriguez-Bhatti</i></p>
<p>ASME QRO-1-2005 (R2015), Standard for the Qualification and Certification of Resource Recovery Facility Operators <i>Approved: 3/2/2015</i> <i>Silvana Rodriguez-Bhatti</i></p>	<p>ASME SRB-1-2018, Design, Installation, Maintenance and Application of Ball Slewing Ring Bearings <i>Approved: 7/27/2018</i> <i>Silvana Rodriguez-Bhatti</i></p>	<p>ASME Y14.1M-2012, Metric Drawing Sheet Size and Format <i>Approved: 12/19/2012</i> <i>Silvana Rodriguez-Bhatti</i></p>
<p>ASME RA-S-2008, Standard for Level 1/Large Early Release Frequency Probabilistic Risk Assessment for Nuclear Power Plant Applications <i>Approved: 4/9/2008</i> <i>Silvana Rodriguez-Bhatti</i></p>	<p>ASME STS-1-2017, Steel Stacks <i>Approved: 9/23/2016</i> <i>Silvana Rodriguez-Bhatti</i></p>	<p>ASME Y14.2-2014 , Line Conventions and Lettering  <i>Approved: 12/8/2014</i> <i>Silvana Rodriguez-Bhatti</i></p>
<p>ASME RA-Sa-2009, Standard for Level 1/Large Early Release Frequency Probabilistic Risk Assessment for Nuclear Power Plant Applications <i>Approved: 2/2/2009</i> <i>Silvana Rodriguez-Bhatti</i></p>	<p>ASME TDP-1-2013, Recommended Practices for the Prevention of Water Damage to Steam Turbines Used for Electric Power Generation: Fossil-Fueled Plants <i>Approved: 2/5/2013</i> <i>Silvana Rodriguez-Bhatti</i></p>	<p>ASME Y14.24-2012, Types and Applications of Engineering Drawings <i>Approved: 11/14/2012</i> <i>Silvana Rodriguez-Bhatti</i></p>
<p>ASME RA-Sb-2010, Standard for Level 1/Large Early Release Frequency Probabilistic Risk Assessment for Nuclear Power Plant Applications <i>Approved: 7/1/2013</i> <i>Silvana Rodriguez-Bhatti</i></p>	<p>ASME TDP-2-2012 (R2017), Prevention of Water Damage to Steam Turbines Used for Electric Power Generation: Nuclear Fueled Plants <i>Approved: 3/2/2017</i> <i>Silvana Rodriguez-Bhatti</i></p>	<p>ASME Y14.3-2012 (R2018), Orthographic and Pictorial Views <i>Approved: 4/20/2018</i> <i>Silvana Rodriguez-Bhatti</i></p>
<p>ASME RAM-1-2013, Reliability, Availability, and Maintainability of Equipment and Systems in Power Plants <i>Approved: 8/28/2013</i> <i>Silvana Rodriguez-Bhatti</i></p>	<p>ASME V&amp;V 10-2006 (R2016), Guide for Verification and Validation in Computational Solid Mechanics <i>Approved: 7/19/2016</i> <i>Silvana Rodriguez-Bhatti</i></p>	<p>ASME Y14.31-2014 (R2019), Undimensioned Drawings <i>Approved: 5/3/2019</i> <i>Silvana Rodriguez-Bhatti</i></p>
	<p>ASME V&amp;V 10-2019, Standard for Verification and Validation in Computational Solid Mechanics <i>Approved: 7/23/2019</i> <i>Silvana Rodriguez-Bhatti</i></p>	<p>ASME Y14.34-2013 (R2018), Associated Lists <i>Approved: 8/21/2018</i> <i>Silvana Rodriguez-Bhatti</i></p>
		<p>ASME Y14.35-2014 (R2019), Revision of Engineering Drawings and Associated Documents <i>Approved: 5/3/2019</i> <i>Silvana Rodriguez-Bhatti</i></p>

ASME Y14.36-2018, Surface Texture Symbols

Approved: 6/15/2018

Silvana Rodriguez-Bhatti

ASME Y14.37-2019, Composite Part Drawings

Approved: 3/22/2019

Silvana Rodriguez-Bhatti

ASME Y14.38-2007 (R2013), Abbreviations and Acronyms for Use on Drawings and Related Documents

Approved: 4/29/2013

Silvana Rodriguez-Bhatti

ASME Y14.41-2019, Digital Product Definition Data Practices

Approved: 3/22/2019

Silvana Rodriguez-Bhatti

ASME Y14.43-2011, Dimensioning and Tolerancing Principles for Gages and Fixtures

Approved: 1/28/2011

Silvana Rodriguez-Bhatti

ASME Y14.44-2008 (R2014), Reference Designations for Electrical and Electronics Parts and Equipments

Approved: 10/21/2014

Silvana Rodriguez-Bhatti

ASME Y14.47-2019, 3D Model Organization Schema

Approved: 1/11/2019

Silvana Rodriguez-Bhatti

ASME Y14.5-2018, Dimensioning and Tolerancing

Approved: 8/13/2018

Silvana Rodriguez-Bhatti

ASME Y14.5.1M-1994 (R2012), Mathematical Definition of Y14.5

Approved: 3/7/2012

Silvana Rodriguez-Bhatti

ASME Y14.6-2001 (R2018), Screw Thread Representation

Approved: 4/20/2018

Silvana Rodriguez-Bhatti

ASME Y14.8-2009 (R2014), Castings, Forgings and Molded Parts

Approved: 2/28/2014

Silvana Rodriguez-Bhatti

ASME Y32.18-1972 (S2018), Symbols for Mechanical and Acoustical Elements as Used in Schematic Diagrams

Approved: 8/21/2018

Silvana Rodriguez-Bhatti

ASME Y32.7-1972 (R2014), Graphic Symbols for Railroad Maps and Profiles

Approved: 2/28/2014

Silvana Rodriguez-Bhatti

ANSI B94.21-1968 (R2019), Gear Shaper Cutters

Approved: 5/23/2019

Silvana Rodriguez-Bhatti

ANSI CSA B44.1/ASME A17.5-2014, Elevator and Escalator Electrical Equipment

Approved: 7/2/2014

Silvana Rodriguez-Bhatti

ANSI CSA B44.1/ASME A17.5-2019, Elevator and Escalator Electrical Equipment

Approved: 2/15/2019

Silvana Rodriguez-Bhatti

ANSI/ISO/ASME 14414-2015, Pumping System Energy Assessment

Approved: 2/6/2015

Silvana Rodriguez-Bhatti

### ASNT (AMERICAN SOCIETY FOR NONDESTRUCTIVE TESTING)

ANSI/ASNT CP-105-2015, ASNT standard topical outlines for qualifications of nondestructive testing personnel

Approved: 10/26/2015

N/A

ANSI/ASNT CP-106 (ISO 9712-2012)-2018, Nondestructive Testing- Qualification and Certification of Personnel

Approved: 3/23/2018

N/A

ANSI/ASNT CP-189-2016, Addenda 2018, ASNT Standard for Qualification and Certification of Nondestructive Testing Personnel

Approved: 8/29/2018

N/A

ANSI/ASNT ILI-PQ-2017, IN-Line Inspection Personnel Qualification and Certification Standard

Approved: 12/12/2017

N/A

### ASPE (AMERICAN SOCIETY OF PLUMBING ENGINEERS)

ANSI/ARCSA/ASPE 63-2013, Rainwater Catchment Systems

Approved: 11/14/2013

Gretchen Pienta, (847) 296-0002, [gpienta@aspe.org](mailto:gpienta@aspe.org)

ANSI/ARCSA/ASPE 78-2015, Stormwater Harvesting System Design for Direct End-Use Applications

Approved: 8/3/2015

Gretchen Pienta, (847) 296-0002, [gpienta@aspe.org](mailto:gpienta@aspe.org)

ANSI/ASPE 45-2018, Siphonic Roof Drainage

Approved: 2/22/2019

Gretchen Pienta, (847) 296-0002, [gpienta@aspe.org](mailto:gpienta@aspe.org)

ANSI/WQA/ASPE S-801-2015, Sustainable Management

Approved: 2/3/2015

Gretchen Pienta, (847) 296-0002, [gpienta@aspe.org](mailto:gpienta@aspe.org)

ANSI/WQA/ASPE S-803-2017, Sustainable Drinking Water Treatment Systems

Approved: 9/25/2017

Gretchen Pienta, (847) 296-0002, [gpienta@aspe.org](mailto:gpienta@aspe.org)

ANSI/WQA/ASPE/NSF S-802-2017, Sustainable Media Products for Water Treatment

Approved: 10/11/2017

Gretchen Pienta, (847) 296-0002, [gpienta@aspe.org](mailto:gpienta@aspe.org)

### ASQ (AMERICAN SOCIETY FOR QUALITY)

ASQ/ANSI E4-2014 (R2019), Quality management systems for environmental information and technology programs— Requirements with guidance for use

Approved: 5/23/2019

ASQ Customer Care

ANSI/ASQ S3-2012 (R2017), An attribute chain sampling program

Approved: 7/28/2017

ASQ Customer Care

ANSI/ASQ Z1.11-2011 (R2016), Quality management system standards - Requirements for education organizations

Approved: 6/9/2016

ASQ Customer Care

ANSI/ASQ/ISO 26000-2010, Guidance on Social Responsibility

Approved: 3/18/2011

ASQ Customer Care

ANSI/ISO/ASQ E14001-2004, Environmental Management Systems - Requirements with Guidance for Use

Approved: 1/21/2005

ASQ Customer Care

ANSI/ISO/ASQ E14004-2004, Environmental Management Systems - General Guidelines on Principles, Systems and Support Techniques

Approved: 1/21/2005

ASQ Customer Care

### ASQ (ASC Z1) (AMERICAN SOCIETY FOR QUALITY)

ASQ/ANSI/ISO 10001:2007, Quality management - Customer satisfaction - Guidelines for codes of conduct for organizations

Approved: 8/27/2014

ASQ/ANSI/ISO 10003:2007, Quality management - Customer satisfaction - Guidelines for dispute resolution external to organizations <i>Approved: 8/27/2014</i>	ASQ/ANSI/ISO 14065:2013, Greenhouse gases - Requirements for greenhouse gas validation and verification bodies for use in accreditation or other forms of recognition <i>Approved: 9/22/2014</i>	ASQ/ANSI/ISO 22514-7-2012, Statistical methods in process management - Capability and performance - Part 7: Capability of measurement processes <i>Approved: 1/13/2015</i>
ASQ/ANSI/ISO 10004:2012, Quality management - Customer satisfaction - Guidelines for monitoring and measuring <i>Approved: 8/27/2014</i>	ASQ/ANSI/ISO 14066:2011, Greenhouse gases - Competence requirements for greenhouse gas validation teams and verification teams <i>Approved: 9/22/2014</i>	ASQ/ANSI/ISO 22514-8-2014, Statistical methods in process management - Capability and performance - Part 8: Machine performance of a multi-state production process <i>Approved: 1/13/2015</i>
ASQ/ANSI/ISO 10008:2013, Quality management - Customer satisfaction - Guidelines for business-to-consumer electronic commerce transactions <i>Approved: 8/27/2014</i>	ASQ/ANSI/ISO 16269-4-2010, Statistical interpretation of data - Part 4: Detection and treatment of outliers <i>Approved: 1/13/2015</i>	ASQ/ANSI/ISO 3534-3:2013, Statistics - Vocabulary and symbols - Part 3: Design of experiments <i>Approved: 1/13/2015</i>
ASQ/ANSI/ISO 10018:2012, Quality management - Guidelines on people involvement and competence <i>Approved: 8/27/2014</i>	ASQ/ANSI/ISO 16269-6-2014, Statistical interpretation of data - Part 6: Determination of statistical tolerance intervals <i>Approved: 1/13/2015</i>	ASQ/ANSI/ISO 7870-1-2014, Control charts - Part 1: General guidelines <i>Approved: 1/13/2015</i>
ASQ/ANSI/ISO 14001:2015, Environmental management systems - Requirements with guidance for use <i>Approved: 9/10/2015</i>	ASQ/ANSI/ISO 16269-7-2001, Statistical interpretation of data - Part 7: Median - Estimation and confidence intervals <i>Approved: 1/13/2015</i>	ASQ/ANSI/ISO 7870-2:2013, Control charts - Part 2: Shewhart control charts <i>Approved: 1/13/2015</i>
ASQ/ANSI/ISO 14006:2011, Environmental management systems - Guidelines for incorporating ecodesign <i>Approved: 9/8/2014</i>	ASQ/ANSI/ISO 16269-8-2004, Statistical interpretation of data - Part 8: Determination of prediction intervals <i>Approved: 1/13/2015</i>	ASQ/ANSI/ISO 7870-3:2012, Control charts - Part 3: Acceptance control charts <i>Approved: 1/13/2015</i>
ASQ/ANSI/ISO 14031:2013, Environmental management - Environmental performance evaluation - Guidelines <i>Approved: 8/27/2014</i>	ASQ/ANSI/ISO 18091:2014, Quality management systems - Guidelines for the application of ISO 9001:2008 in local government <i>Approved: 9/22/2014</i>	ASQ/ANSI/ISO 7870-4-2011, Control charts - Part 4: Cumulative sum charts <i>Approved: 1/13/2015</i>
ASQ/ANSI/ISO 14034-2016, Environmental management - Environmental technology verification (ETV) <i>Approved: 2/23/2017</i>	ASQ/ANSI/ISO 22514-1-2014, Statistical methods in process management - Capability and performance - Part 1: General principles and concepts <i>Approved: 1/13/2015</i>	ASQ/ANSI/ISO 7870-5-2014, Control charts - Part 5: Specialized control charts <i>Approved: 1/13/2015</i>
ASQ/ANSI/ISO 14040:2006, Environmental management - Life cycle assessment - Principles and framework <i>Approved: 8/27/2014</i>	ASQ/ANSI/ISO 22514-2-2013, Statistical methods in process management - Capability and performance - Part 2: Process capability and performance of time-dependent process models <i>Approved: 1/13/2015</i>	ASQ/ANSI/ISO 9000-2015, Quality management systems - Fundamentals and vocabulary <i>Approved: 9/9/2015</i>
ASQ/ANSI/ISO 14044:2006, Environmental management - Life cycle assessment - Requirements and guidelines <i>Approved: 8/27/2014</i>	ASQ/ANSI/ISO 22514-3-2008, Statistical methods in process management - Capability and performance - Part 3: Machine performance studies for measured data on discrete parts <i>Approved: 1/13/2015</i>	ASQ/ANSI/ISO 9001:2015, Quality management systems - Requirements <i>Approved: 10/21/2015</i>
ASQ/ANSI/ISO 14051:2011, Environmental management - Material flow cost accounting - General framework <i>Approved: 8/27/2014</i>	ASQ/ANSI/ISO 22514-6-2013, Statistical methods in process management - Capability and performance - Part 6: Process capability statistics for characteristics following a multivariate normal distribution <i>Approved: 1/13/2015</i>	ASQ/ANSI/ISO/TS 16949-2009, Quality management systems - Particular requirements for the application of ISO 9001:2008 for automotive production and relevant service part organizations <i>Approved: 1/13/2015</i>
ASQ/ANSI/ISO 14063:2006, Environmental management - Environmental communication - Guidelines and examples <i>Approved: 8/27/2014</i>		ANSI/ASQ ISO 10007-2018, Quality management Guidelines for configuration management <i>Approved: 5/24/2018</i>
		ANSI/ASQ ISO 19011-2018, Guidelines for auditing management systems <i>Approved: 6/26/2018</i>
		ANSI/ASQ Z1.4-2003 (R2018), Sampling procedures and tables for inspection by attributes <i>Approved: 10/10/2018</i>

<p>ANSI/ASQ Z1.9-2003 (R2018), Sampling procedures and tables for inspection by variables for percent nonconforming <i>Approved: 10/10/2018</i></p>	<p>ANSI/ISO 2859-1-1999, Sampling procedures for inspection by attributes - Part 1: Sampling schemes indexed by acceptance quality limit (AQL) for lot-by-lot inspection <i>Approved: 12/3/2007</i></p>	<p><b>ASSP (ASC A10) (AMERICAN SOCIETY OF SAFETY PROFESSIONALS)</b></p>
<p>ANSI/ASQ/ISO 10006-2017, Quality management Guidelines for quality management in projects <i>Approved: 5/24/2018</i></p>	<p>ANSI/ISO 2859-4-2002, Sampling procedures for inspection by attributes — Part 4: Procedures for assessment of declared quality levels <i>Approved: 12/3/2007</i></p>	<p>ANSI/ASSE A10.1-2011 (R2017), Pre-Project &amp; Pre-Task Safety and Health Planning <i>Approved: 10/6/2017</i> <i>Tim Fisher, (847) 768-3411, TFisher@ASSE.Org</i></p>
<p>ANSI/ASQ/ISO 14004-2016, Environmental management systems - General guidelines on implementation <i>Approved: 8/3/2016</i></p>	<p>ANSI/ISO 3534-1-2006, Statistics - Vocabulary and symbols - Part 1: General statistical terms and terms used in probability <i>Approved: 12/3/2007</i></p>	<p>ANSI/ASSE A10.10-2015, Safety Requirements for Temporary and Portable Space Heating Devices and Equipment <i>Approved: 11/23/2015</i> <i>Tim Fisher, (847) 768-3411, TFisher@ASSE.Org</i></p>
<p>ANSI/ASQ/ISO 16355-1-2015, Application of statistical and related methods to new technology and product development process - Part 1: General principles and perspectives of Quality Function Deployment (QFD) <i>Approved: 4/13/2017</i></p>	<p>ANSI/ISO 3534-2-2006, Statistics — Vocabulary and symbols — Part 2: Applied statistics <i>Approved: 12/3/2007</i></p>	<p>ANSI/ASSE A10.11-2016, Safety Requirements for Personnel Nets <i>Approved: 10/11/2016</i> <i>Tim Fisher, (847) 768-3411, TFisher@ASSE.Org</i></p>
<p>ANSI/ASQ/ISO 19011-2011, Guidelines for Auditing Management Systems <i>Approved: 9/11/2013</i></p>	<p>ANSI/ISO/ASQ E14025-2006, Environmental labels and declarations - Type III environmental declarations - Principles and procedures <i>Approved: 9/28/2006</i></p>	<p>ANSI/ASSE A10.12-1998 (R2016), Safety Requirements for Excavation <i>Approved: 9/26/2016</i> <i>Tim Fisher, (847) 768-3411, TFisher@ASSE.Org</i></p>
<p>ANSI/ASQ/ISO 3534-4-2014, Statistics - Vocabulary and symbols - Part 4: Survey sampling <i>Approved: 1/13/2015</i></p>	<p>ANSI/ISO/ASQ E14064-1-2006, ANSI/ISO/ASTM 14064-1-2006, ANSI/ISO/NSF 14064-1-2006, Greenhouse gases - Part 1: Specification with guidance at the organization level for quantification and reporting of greenhouse gas emissions and removals <i>Approved: 8/16/2006</i></p>	<p>ANSI/ASSE A10.13-2011 (R2017), Safety Requirements for Steel Erection <i>Approved: 10/5/2017</i> <i>Tim Fisher, (847) 768-3411, TFisher@ASSE.Org</i></p>
<p>ANSI/ASQ/ISO 9004-2018, Quality management Quality of an organization Guidance to achieve sustained success <i>Approved: 5/24/2018</i></p>	<p>ANSI/ISO/ASQ E14064-2-2006, ANSI/ISO/ASTM 14064-2-2006, ANSI/ISO/NSF 14064-2-2006, Greenhouse gases - Part 2: Specification with guidance at the project level for quantification, monitoring and reporting of greenhouse gas emission reductions or removal enhancements <i>Approved: 8/16/2006</i></p>	<p>ANSI ASSE A10.15-1995 (R2017), Safety Requirements for Dredging <i>Approved: 6/15/2017</i> <i>Tim Fisher, (847) 768-3411, TFisher@ASSE.Org</i></p>
<p>ANSI/ASQ/ISO Q10005-2005, Quality Management Systems - Guidelines for Quality Plans <i>Approved: 5/25/2006</i></p>	<p>ANSI/ISO/ASQ E14064-3-2006, ANSI/ISO/ASTM 14064-3-2006, ANSI/ISO/NSF 14064-3-2006, Greenhouse gases - Part 3: Specification with guidance for the validation and verification of greenhouse gas assertions <i>Approved: 8/16/2006</i></p>	<p>ANSI/ASSE A10.16-2009 (R2016), Safety Requirements for Tunnels, Shafts, and Caissons <i>Approved: 9/26/2016</i> <i>Tim Fisher, (847) 768-3411, TFisher@ASSE.Org</i></p>
<p>ANSI/ASQ/ISO Q10012-2003, Measurement management systems -Requirements for measurement processes and measuring equipment <i>Approved: 5/25/2006</i></p>	<p>ANSI/ISO/ASQ Q10002-2004, Quality Management - Customer Satisfaction - Guidelines for Complaints Handling in Organizations <i>Approved: 5/16/2006</i></p>	<p>ANSI/ASSE A10.17-2006 (R2017), Safe Operating Practices for Hot Mix Asphalt (HMA) Construction <i>Approved: 10/5/2017</i> <i>Tim Fisher, (847) 768-3411, TFisher@ASSE.Org</i></p>
<p>ANSI/ASQ/ISO/TS 9002:2016, Quality management systems - Guidelines for the application of ISO 9001:2015 <i>Approved: 7/6/2017</i></p>	<p>ANSI/ISO/ASQ Q10014-2006, Quality management systems -Guidelines for realizing financial and economic benefits <i>Approved: 8/31/2006</i></p>	<p>ANSI/ASSE A10.18-2007 (R2012), Safety Requirements for Temporary Floors, Holes, Wall Openings, Stairways and Other Unprotected Edges in Construction and Demolition Operations <i>Approved: 7/3/2012</i> <i>Tim Fisher, (847) 768-3411, TFisher@ASSE.Org</i></p>
<p>ANSI/ISO 14065-2007, Greenhouse gases - Requirements for greenhouse gas validation and verification bodies for use in accreditation or other forms of recognition <i>Approved: 8/17/2007</i></p>	<p>ANSI/ISO/ASQ Q10015-1999, Quality Management - Guidelines for Training <i>Approved: 1/25/2001</i></p>	<p>ANSI ASSE A10.19-2017, Safety Requirements for Pile Installation and Extraction Operations <i>Approved: 6/15/2017</i> <i>Tim Fisher, (847) 768-3411, TFisher@ASSE.Org</i></p>
<p>ANSI/ISO 21247-2007, Combined accept-zero sampling systems and process control procedures for product acceptance <i>Approved: 12/4/2007</i></p>		<p>ANSI/ASSE A10.20-2006 (R2016), Safe Operating Practices for Tile, Terrazzo, and Marble Work <i>Approved: 9/26/2016</i> <i>Tim Fisher, (847) 768-3411, TFisher@ASSE.Org</i></p>

ANSI ASSE A10.21-2018, Safety Requirements for Safe Construction and Demolition of Wind Generation / Turbine Facilities.

Approved: 4/20/2018

Tim Fisher, (847) 768-3411, [TFisher@ASSE.Org](mailto:TFisher@ASSE.Org)

ANSI/ASSE A10.22-2007 (R2017), Safety Requirements for Rope-Guided & Non-Guided Workers' Hoists

Approved: 10/5/2017

Tim Fisher, (847) 768-3411, [TFisher@ASSE.Org](mailto:TFisher@ASSE.Org)

ANSI/ASSE A10.24-2014, Roofing - Safety Requirements for Low-Sloped Roofs

Approved: 12/3/2014

Tim Fisher, (847) 768-3411, [TFisher@ASSE.Org](mailto:TFisher@ASSE.Org)

ANSI/ASSE A10.25-2017, Sanitation in Construction

Approved: 5/16/2017

Tim Fisher, (847) 768-3411, [TFisher@ASSE.Org](mailto:TFisher@ASSE.Org)

ANSI/ASSE A10.26-2011 (R2016), Emergency Procedures for Construction and Demolition Sites

Approved: 5/3/2016

Tim Fisher, (847) 768-3411, [TFisher@ASSE.Org](mailto:TFisher@ASSE.Org)

ANSI ASSE A10.27-1998 (R2017), Hot Mix Asphalt Facilities

Approved: 6/15/2017

Tim Fisher, (847) 768-3411, [TFisher@ASSE.Org](mailto:TFisher@ASSE.Org)

ANSI/ASSE A10.3-2013, Safety Requirements for Powder-Actuated Fastening Systems

Approved: 9/23/2013

Tim Fisher, (847) 768-3411, [TFisher@ASSE.Org](mailto:TFisher@ASSE.Org)

ANSI/ASSE A10.32-2012, Fall Protection Systems for Construction and Demolition Operations

Approved: 9/12/2012

Tim Fisher, (847) 768-3411, [TFisher@ASSE.Org](mailto:TFisher@ASSE.Org)

ANSI/ASSE A10.33-2011 (R2016), Safety and Health Program Requirements for Multi-Employer Projects

Approved: 9/26/2016

Tim Fisher, (847) 768-3411, [TFisher@ASSE.Org](mailto:TFisher@ASSE.Org)

ANSI/ASSE A10.34-2001 (R2012), Protection of the Public on or Adjacent to Construction Sites

Approved: 7/3/2012

Tim Fisher, (847) 768-3411, [TFisher@ASSE.Org](mailto:TFisher@ASSE.Org)

ANSI/ASSE A10.37-2016, Debris Net Systems Used During Construction and Demolition Operations

Approved: 9/26/2016

Tim Fisher, (847) 768-3411, [TFisher@ASSE.Org](mailto:TFisher@ASSE.Org)

ANSI/ASSE A10.38-2013, Basic Elements of an Employer's Program to Provide a Safe and Healthful Work Environment

Approved: 3/5/2013

Tim Fisher, (847) 768-3411, [TFisher@ASSE.Org](mailto:TFisher@ASSE.Org)

ANSI/ASSE A10.39-1996 (R2017), Construction Safety & Health Audit Program

Approved: 10/5/2017

Tim Fisher, (847) 768-3411, [TFisher@ASSE.Org](mailto:TFisher@ASSE.Org)

ANSI/ASSE A10.4-2016, Personnel Hoists & Employee Elevators on Construction & Demolition Sites

Approved: 1/6/2016

Tim Fisher, (847) 768-3411, [TFisher@ASSE.Org](mailto:TFisher@ASSE.Org)

ANSI/ASSE A10.42-2000 (R2017), Safety Requirements for Rigging Qualifications & Responsibilities

Approved: 10/5/2017

Tim Fisher, (847) 768-3411, [TFisher@ASSE.Org](mailto:TFisher@ASSE.Org)

ANSI/ASSE A10.43-2016, Confined Space Entry for Construction and Demolition Operations

Approved: 8/4/2016

Tim Fisher, (847) 768-3411, [TFisher@ASSE.Org](mailto:TFisher@ASSE.Org)

ANSI/ASSE A10.44-2014, Control of Energy Sources (Lockout/Tagout) for Construction and Demolitions Operations

Approved: 9/9/2014

Tim Fisher, (847) 768-3411, [TFisher@ASSE.Org](mailto:TFisher@ASSE.Org)

ANSI/ASSE A10.46-2013, Hearing Loss Prevention in Construction and Demolition Workers

Approved: 2/12/2013

Tim Fisher, (847) 768-3411, [TFisher@ASSE.Org](mailto:TFisher@ASSE.Org)

ANSI/ASSE A10.47-2015, Work Zone Safety for Highway Construction

Approved: 4/23/2015

Tim Fisher, (847) 768-3411, [TFisher@ASSE.Org](mailto:TFisher@ASSE.Org)

ANSI/ASSE A10.48-2016, Criteria for Safety Practices with the Construction, Demolition, and Maintenance of Communication Structures

Approved: 8/3/2016

Tim Fisher, (847) 768-3411, [TFisher@ASSE.Org](mailto:TFisher@ASSE.Org)

ANSI/ASSE A10.49-2015, Control of Health Hazards in Construction and Demolition Operations

Approved: 4/15/2015

Tim Fisher, (847) 768-3411, [TFisher@ASSE.Org](mailto:TFisher@ASSE.Org)

ANSI/ASSE A10.5-2013, Safety Requirements for Material Hoists

Approved: 2/28/2013

Tim Fisher, (847) 768-3411, [TFisher@ASSE.Org](mailto:TFisher@ASSE.Org)

ANSI/ASSE A10.6-2006 (R2016), Safety & Health Program Requirements for Demolition Operations

Approved: 9/26/2016

Tim Fisher, (847) 768-3411, [TFisher@ASSE.Org](mailto:TFisher@ASSE.Org)

ANSI ASSE A10.9-2013 (R2018), Safety Requirements for Concrete and Masonry Work

Approved: 5/3/2018

Tim Fisher, (847) 768-3411, [TFisher@ASSE.Org](mailto:TFisher@ASSE.Org)

ANSI/ASSP A10.23-2019, Safety Requirements for the Installation of Drilled Shafts

Approved: 4/12/2019

Tim Fisher, (847) 768-3411, [TFisher@ASSE.Org](mailto:TFisher@ASSE.Org)

ANSI/ASSP A10.28-2018, Safety Requirements for Work Platforms Suspended from Cranes or Derricks

Approved: 7/27/2018

Tim Fisher, (847) 768-3411, [TFisher@ASSE.Org](mailto:TFisher@ASSE.Org)

ANSI/ASSP A10.31-2019, Safety Requirements, Definitions and Specifications for Digger Derricks

Approved: 5/14/2019

Tim Fisher, (847) 768-3411, [TFisher@ASSE.Org](mailto:TFisher@ASSE.Org)

ANSI/ASSP A10.40-2007 (R2018), Reduction of Musculoskeletal Problems in Construction

Approved: 9/27/2018

Tim Fisher, (847) 768-3411, [TFisher@ASSE.Org](mailto:TFisher@ASSE.Org)

ANSI/ASSP A10.7-2018, Safety and Health Requirements for Construction and Demolition Use, Storage, Handling and Site Movement of Commercial Explosives and Blasting Agents

Approved: 7/25/2018

Tim Fisher, (847) 768-3411, [TFisher@ASSE.Org](mailto:TFisher@ASSE.Org)

ANSI/ASSP A10.8-2019, Scaffolding Safety Requirements

Approved: 2/7/2019

Tim Fisher, (847) 768-3411, [TFisher@ASSE.Org](mailto:TFisher@ASSE.Org)

**ASSP (SAFETY) (AMERICAN SOCIETY OF SAFETY PROFESSIONALS)**

ANSI/AIHA Z9.5-2010, Laboratory Ventilation Standard

Approved: 4/26/2012

Timothy Fisher, (847) 768-3411, [TFisher@ASSE.Org](mailto:TFisher@ASSE.Org)

ANSI/AIHA Z9.9-2010, Portable Ventilation Systems

Approved: 6/21/2010

Timothy Fisher, (847) 768-3411, [TFisher@ASSE.Org](mailto:TFisher@ASSE.Org)

ANSI/ASSE A1264.1-2017, Safety Requirements for Workplace Walking/Working Surfaces & Their Access; Workplace Floor, Wall & Roof Openings; Stairs & Guardrails Systems  
Approved: 1/9/2017

Timothy Fisher, (847) 768-3411, [TFisher@ASSE.Org](mailto:TFisher@ASSE.Org)

ANSI/ASSE A1264.2-2012, Standard for the Provision of Slip Resistance on Walking/Working Surfaces  
Approved: 12/19/2012

Timothy Fisher, (847) 768-3411, [TFisher@ASSE.Org](mailto:TFisher@ASSE.Org)

ANSI ASSE Z117.1-2016, Safety Requirements for Entering Confined Spaces  
Approved: 8/4/2016

Timothy Fisher, (847) 768-3411, [TFisher@ASSE.Org](mailto:TFisher@ASSE.Org)

ANSI/ASSE Z15.1-2017, Safe Practices for Motor Vehicle Operations  
Approved: 4/25/2017

Timothy Fisher, (847) 768-3411, [TFisher@ASSE.Org](mailto:TFisher@ASSE.Org)

ANSI/ASSE Z244.1-2016, The Control of Hazardous Energy Lockout, Tagout and Alternative Methods  
Approved: 10/13/2016

Timothy Fisher, (847) 768-3411, [TFisher@ASSE.Org](mailto:TFisher@ASSE.Org)

ANSI/ASSE Z359.0-2012, Definitions and Nomenclature Used for Fall Protection and Fall Arrest  
Approved: 2/23/2012

Timothy Fisher, (847) 768-3411, [TFisher@ASSE.Org](mailto:TFisher@ASSE.Org)

ANSI/ASSE Z359.1-2016, The Fall Protection Code  
Approved: 8/15/2016

Timothy Fisher, (847) 768-3411, [TFisher@ASSE.Org](mailto:TFisher@ASSE.Org)

ANSI/ASSE Z359.11-2014, Safety Requirements for Full Body Harness  
Approved: 8/25/2014

Timothy Fisher, (847) 768-3411, [TFisher@ASSE.Org](mailto:TFisher@ASSE.Org)

ANSI/ASSE Z359.13-2013, Personal Energy Absorbers and Energy Absorbing Lanyards  
Approved: 3/13/2013

Timothy Fisher, (847) 768-3411, [TFisher@ASSE.Org](mailto:TFisher@ASSE.Org)

ANSI/ASSE Z359.14-2014, Safety Requirements for Self-Retracting Devices for Personal Fall Arrest & Rescue Systems  
Approved: 9/17/2014

Timothy Fisher, (847) 768-3411, [TFisher@ASSE.Org](mailto:TFisher@ASSE.Org)

ANSI ASSE Z359.15-2014, Safety Requirements for Single Anchor Vertical Lifelines & Fall Arrestors for Personal Fall Arrest Systems  
Approved: 8/25/2014

Timothy Fisher, (847) 768-3411, [TFisher@ASSE.Org](mailto:TFisher@ASSE.Org)

ANSI ASSE Z359.16-2016, Safety Requirements for Climbing Ladder Fall Arrest Systems  
Approved: 11/2/2016

Timothy Fisher, (847) 768-3411, [TFisher@ASSE.Org](mailto:TFisher@ASSE.Org)

ANSI/ASSE Z359.18-2017, Safety Requirements for Anchorage Connectors for Active Fall Protection Systems  
Approved: 6/2/2017

Timothy Fisher, (847) 768-3411, [TFisher@ASSE.Org](mailto:TFisher@ASSE.Org)

ANSI/ASSE Z359.2-2017, Minimum Requirements for a Comprehensive Managed Fall Protection Program  
Approved: 1/9/2017

Timothy Fisher, (847) 768-3411, [TFisher@ASSE.Org](mailto:TFisher@ASSE.Org)

ANSI/ASSE Z359.4-2013, Safety Requirements for Assisted-Rescue and Self-Rescue Systems, Subsystems and Components  
Approved: 2/28/2013

Timothy Fisher, (847) 768-3411, [TFisher@ASSE.Org](mailto:TFisher@ASSE.Org)

ANSI ASSE Z359.6-2016, Specifications and Design Requirements for Active Fall Protection Systems  
Approved: 12/21/2016

Timothy Fisher, (847) 768-3411, [TFisher@ASSE.Org](mailto:TFisher@ASSE.Org)

ANSI/ASSE Z390.1-2017, Accepted Practices for Hydrogen Sulfide (H<sub>2</sub>S) Training Programs  
Approved: 6/30/2017

Timothy Fisher, (847) 768-3411, [TFisher@ASSE.Org](mailto:TFisher@ASSE.Org)

ANSI/ASSE Z490.1-2016, Criteria for Accepted Practices in Safety, Health, and Environmental Training  
Approved: 12/7/2015

Timothy Fisher, (847) 768-3411, [TFisher@ASSE.Org](mailto:TFisher@ASSE.Org)

ANSI/ASSE Z590.2-2003 (R2012), Criteria for Establishing the Scope and Functions of the Professional Safety Position  
Approved: 12/20/2012

Timothy Fisher, (847) 768-3411, [TFisher@ASSE.Org](mailto:TFisher@ASSE.Org)

ANSI/ASSE Z590.3-2011 (R2016), Prevention through Design: Guidelines for Addressing Occupational Risks in Design and Redesign Processes  
Approved: 12/14/2015

Timothy Fisher, (847) 768-3411, [TFisher@ASSE.Org](mailto:TFisher@ASSE.Org)

ANSI/ASSE Z690.1-2011, Vocabulary for Risk Management  
Approved: 1/11/2011

Timothy Fisher, (847) 768-3411, [TFisher@ASSE.Org](mailto:TFisher@ASSE.Org)

ANSI/ASSE Z690.3-2011, Risk Assessment Techniques  
Approved: 1/11/2011

Timothy Fisher, (847) 768-3411, [TFisher@ASSE.Org](mailto:TFisher@ASSE.Org)

ANSI/ASSE Z9.1-2016, Ventilation and Control of Airborne Contaminants during Open-Surface Tank Operations  
Approved: 7/28/2016

Timothy Fisher, (847) 768-3411, [TFisher@ASSE.Org](mailto:TFisher@ASSE.Org)

ANSI ASSE Z9.10-2017, Fundamentals Governing the Design and Operation of Dilution Ventilation Systems in Industrial Occupancies  
Approved: 2/17/2017

Timothy Fisher, (847) 768-3411, [TFisher@ASSE.Org](mailto:TFisher@ASSE.Org)

ANSI/ASSE Z9.11-2016, Laboratory Decommissioning  
Approved: 12/23/2015

Timothy Fisher, (847) 768-3411, [TFisher@ASSE.Org](mailto:TFisher@ASSE.Org)

ANSI/ASSE Z9.14-2014, Testing and Performance-Verification Methodologies for Ventilation Systems for Biosafety Level 3 (BSL -3) and Animal Biosafety Level 3 (ABSL-3) Facilities  
Approved: 1/24/2014

Timothy Fisher, (847) 768-3411, [TFisher@ASSE.Org](mailto:TFisher@ASSE.Org)

ANSI/ASSE Z9.3-2017, Spray Finishing Operations: Safety Code for Design, Construction and Ventilation  
Approved: 8/24/2017

Timothy Fisher, (847) 768-3411, [TFisher@ASSE.Org](mailto:TFisher@ASSE.Org)

ANSI/ASSP Z10.0-2019, Occupational Health and Safety Management Systems  
Approved: 8/22/2019

Timothy Fisher, (847) 768-3411, [TFisher@ASSE.Org](mailto:TFisher@ASSE.Org)

ANSI/ASSP Z359.12-2019, Connecting Components for Personal Fall Arrest Systems  
Approved: 6/5/2019

Timothy Fisher, (847) 768-3411, [TFisher@ASSE.Org](mailto:TFisher@ASSE.Org)

ANSI/ASSP Z359.3-2019, Safety Requirements for Lanyards and Positioning Lanyards  
Approved: 6/28/2019

Timothy Fisher, (847) 768-3411, [TFisher@ASSE.Org](mailto:TFisher@ASSE.Org)

ANSI/ASSP Z359.7-2019, Qualification and Verification Testing of Fall Protection Products  
Approved: 4/2/2019

Timothy Fisher, (847) 768-3411, [TFisher@ASSE.Org](mailto:TFisher@ASSE.Org)

ANSI/ASSP Z9.2-2018, Fundamentals Governing the Design and Operation of Local Exhaust Ventilation Systems  
Approved: 7/2/2018

Timothy Fisher, (847) 768-3411, [TFisher@ASSE.Org](mailto:TFisher@ASSE.Org)

ANSI/ASSP Z9.6-2018, Exhaust Systems for Grinding, Polishing and Buffing  
Approved: 12/3/2018

Timothy Fisher, (847) 768-3411, [TFisher@ASSE.Org](mailto:TFisher@ASSE.Org)

ANSI/ASSP/ISO 31000-2018, Risk Management Guidelines

Approved: 7/20/2018

Timothy Fisher, (847) 768-3411, TFisher@ASSE.Org

ANSI/ASSP/ISO 45001-2018, Occupational health and safety management systems Requirements with guidance for use

Approved: 5/8/2018

Timothy Fisher, (847) 768-3411, TFisher@ASSE.Org

### ASTM (ASTM INTERNATIONAL)

ANSI/AIHA Z88.10-2010, Respirator Fit Testing Methods

Approved: 12/2/2010

cleonard@astm.org

ANSI/AIHA Z88.7-2010, Color Coding of Air-Purifying Respirator Canisters, Cartridges, and Filters

Approved: 6/14/2010

cleonard@astm.org

ANSI/ASSE Z88.2-2015, Practices for Respiratory Protection

Approved: 3/4/2015

cleonard@astm.org

ASTM C1025-2015, Test Method for Modulus of Rupture in Bending of Electrode Graphite

Approved: 10/20/2015

cleonard@astm.org

ASTM C1039-2010 (R2015), Test Methods for Apparent Porosity, Apparent Specific Gravity, and Bulk Density of Graphite Electrodes

Approved: 10/20/2015

cleonard@astm.org

ASTM C1179-2016, Test Method for Oxidation Mass Loss of Manufactured Carbon and Graphite Materials in Air

Approved: 2/2/2016

cleonard@astm.org

ASTM C559-2016, Test Method for Bulk Density by Physical Measurements of Manufactured Carbon and Graphite Articles

Approved: 1/26/2016

cleonard@astm.org

ASTM C560-2015, Test Methods for Chemical Analysis of Graphite

Approved: 10/20/2015

cleonard@astm.org

ASTM C561-2016, Test Method for Ash in a Graphite Sample

Approved: 1/26/2016

cleonard@astm.org

ASTM C562-2015, Test Method for Moisture in a Graphite Sample

Approved: 10/20/2015

cleonard@astm.org

ASTM C565-2016, Test Methods for Tension Testing of Carbon and Graphite Mechanical Materials

Approved: 2/2/2016

cleonard@astm.org

ASTM C611-2005 (R2016), Test Method for Electrical Resistivity of Manufactured Carbon and Graphite Articles at Room Temperature

Approved: 10/18/2016

cleonard@astm.org

ASTM C625-2015, Practice for Reporting Irradiation Results on Graphite

Approved: 10/20/2015

cleonard@astm.org

ASTM C651-2015, Test Method for Flexural Strength of Manufactured Carbon and Graphite Articles Using Four-Point Loading at Room Temperature

Approved: 10/20/2015

cleonard@astm.org

ASTM C662-2016, Specification for Impervious Graphite Pipe and Threading

Approved: 1/26/2016

cleonard@astm.org

ASTM C695-2015, Test Method for Compressive Strength of Carbon and Graphite

Approved: 6/23/2015

cleonard@astm.org

ASTM C714-2010 (R2015), Test Method for Thermal Diffusivity of Carbon and Graphite by Thermal Pulse Method

Approved: 10/20/2015

cleonard@astm.org

ASTM C714-2017, Test Method for Thermal Diffusivity of Carbon and Graphite by Thermal Pulse Method

Approved: 5/23/2017

cleonard@astm.org

ASTM C747-2016, Test Method for Moduli of Elasticity and Fundamental Frequencies of Carbon and Graphite Materials by Sonic Resonance

Approved: 11/29/2016

cleonard@astm.org

ASTM C748-2010 (R2015), Test Method for Rockwell Hardness of Graphite Materials

Approved: 10/20/2015

cleonard@astm.org

ASTM C749-2015, Test Method for Tensile Stress-Strain of Carbon and Graphite

Approved: 10/20/2015

cleonard@astm.org

ASTM C769-2015, Test Method for Sonic Velocity in Manufactured Carbon and Graphite Materials for Use in Obtaining Youngs Modulus

Approved: 12/22/2015

cleonard@astm.org

ASTM C781-2018, Practice for Testing Graphite and Boronated Graphite Materials for High-Temperature Gas-Cooled Nuclear Reactor Components

Approved: 11/20/2018

cleonard@astm.org

ASTM C783-2010 (R2015), Practice for Core Sampling of Graphite Electrodes

Approved: 10/20/2015

cleonard@astm.org

ASTM C808-2000 (R2016), Guide for Reporting Friction and Wear Test Results of Manufactured Carbon and Graphite Bearing and Seal Materials

Approved: 1/26/2016

cleonard@astm.org

ASTM C816-2016, Test Method for Sulfur in Graphite by Combustion-Iodometric Titration Method

Approved: 2/2/2016

cleonard@astm.org

ASTM C838-2016, Test Method for Bulk Density of As-Manufactured Carbon and Graphite Shapes

Approved: 3/15/2016

cleonard@astm.org

ASTM C886-2010 (R2015), Test Method for Scleroscope Hardness Testing of Carbon and Graphite Materials

Approved: 10/20/2015

cleonard@astm.org

ASTM D1094-2007 (R2019), Test Method for Water Reaction of Aviation Fuels

Approved: 2/1/2019

cleonard@astm.org

ASTM D1322-2014, Test Method for Smoke Point of Kerosine and Aviation Turbine Fuel

Approved: 10/21/2014

cleonard@astm.org

ASTM D1322-2014a, Test Method for Smoke Point of Kerosine and Aviation Turbine Fuel

Approved: 12/23/2014

cleonard@astm.org

ASTM D1322-2015, Test Method for Smoke Point of Kerosine and Aviation Turbine Fuel  
*Approved: 4/21/2015*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D1322-2018, Test Method for Smoke Point of Kerosine and Aviation Turbine Fuel  
*Approved: 4/24/2018*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D1494-2017, Test Method for Diffuse Light Transmission Factor of Reinforced Plastics Panels  
*Approved: 12/26/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D1655-2014a, Specification for Aviation Turbine Fuels  
*Approved: 10/21/2014*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D1655-2015, Specification for Aviation Turbine Fuels  
*Approved: 1/1/2015*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D1655-2015, Specification for Aviation Turbine Fuels  
*Approved: 10/20/2015*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D1655-2015a, Specification for Aviation Turbine Fuels  
*Approved: 7/15/2015*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D1655-2015b, Specification for Aviation Turbine Fuels  
*Approved: 4/20/2015*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D1655-2015c, Specification for Aviation Turbine Fuels  
*Approved: 7/1/2015*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D1655-2015d, Specification for Aviation Turbine Fuels  
*Approved: 7/28/2015*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D1655-2016, Specification for Aviation Turbine Fuels  
*Approved: 6/21/2016*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D1655-2016a, Specification for Aviation Turbine Fuels  
*Approved: 8/1/2016*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D1655-2016b, Specification for Aviation Turbine Fuels  
*Approved: 9/1/2016*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D1655-2017, Specification for Aviation Turbine Fuels  
*Approved: 12/20/2016*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D1655-2017a, Specification for Aviation Turbine Fuels  
*Approved: 8/1/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D1655-2018, Specification for Aviation Turbine Fuels  
*Approved: 1/1/2018*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D1655-2018a, Specification for Aviation Turbine Fuels  
*Approved: 4/24/2018*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D1655-2019, Specification for Aviation Turbine Fuels  
*Approved: 3/26/2019*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D1785-2017, Specification for Poly(Vinyl Chloride) (PVC) Plastic Pipe, Schedules 40, 80, and 120  
*Approved: 5/16/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D2152-2017, Test Method for Adequacy of Fusion of Extruded Poly(Vinyl Chloride) (PVC) Pipe and Molded Fittings by Acetone Immersion  
*Approved: 5/16/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D2152-2017, Test Method for Adequacy of Fusion of Extruded Poly(Vinyl Chloride) (PVC) Pipe and Molded Fittings by Acetone Immersion  
*Approved: 11/21/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D2235-2016, Specification for Solvent Cement for Acrylonitrile-Butadiene-Styrene (ABS) Plastic Pipe and Fittings  
*Approved: 11/22/2016*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D2239-2017, Specification for Polyethylene (PE) Plastic Pipe (SIDR-PR) Based on Controlled Inside Diameter  
*Approved: 5/30/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D2241-2017, Specification for Poly(Vinyl Chloride) (PVC) Pressure-Rated Pipe (SDR Series)  
*Approved: 5/16/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D2276-2006 (R2014), Test Method for Particulate Contaminant in Aviation Fuel by Line Sampling  
*Approved: 6/17/2014*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D2464-2017, Specification for Threaded Poly(Vinyl Chloride) (PVC) Plastic Pipe Fittings, Schedule 80  
*Approved: 5/30/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D2466-2017, Specification for Poly(Vinyl Chloride) (PVC) Plastic Pipe Fittings, Schedule 40  
*Approved: 5/31/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D2466-2017a, Specification for Poly(Vinyl Chloride) (PVC) Plastic Pipe Fittings, Schedule 40  
*Approved: 8/22/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D2467-2017, Specification for Poly(Vinyl Chloride) (PVC) Plastic Pipe Fittings, Schedule 80  
*Approved: 5/31/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D2513-2016, Specification for Polyethylene (PE) Gas Pressure Pipe, Tubing, and Fittings  
*Approved: 12/1/2016*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D2513-2016a, Specification for Polyethylene (PE) Gas Pressure Pipe, Tubing, and Fittings  
*Approved: 12/15/2016*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D2513-2018, Specification for Polyethylene (PE) Gas Pressure Pipe, Tubing, and Fittings  
*Approved: 10/16/2018*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D2513-2018, Specification for Polyethylene (PE) Gas Pressure Pipe, Tubing, and Fittings  
*Approved: 8/21/2018*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D2513-2019, Specification for Polyethylene (PE) Gas Pressure Pipe, Tubing, and Fittings  
*Approved: 8/20/2019*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D2564-2017 (R2018), Specification for Solvent Cements for Poly(Vinyl Chloride) (PVC) Plastic Piping Systems  
*Approved: 8/21/2018*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D2564-2017, Specification for Solvent Cements for Poly(Vinyl Chloride) (PVC) Plastic Piping Systems  
*Approved: 5/31/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D2609-2017, Specification for Plastic Insert Fittings for Polyethylene (PE) Plastic Pipe  
*Approved: 5/31/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D2624-2015, Test Methods for Electrical Conductivity of Aviation and Distillate Fuels  
*Approved: 4/21/2015*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D2657-2017, Practice for Heat Fusion Joining of Polyolefin Pipe and Fittings  
*Approved: 5/31/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D2661-2018, Specification for Acrylonitrile-Butadiene-Styrene (ABS) Schedule 40 Plastic Drain, Waste, and Vent Pipe and Fittings  
*Approved: 12/18/2018*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D2665-2018, Specification for Poly(Vinyl Chloride) (PVC) Plastic Drain, Waste, and Vent Pipe and Fittings  
*Approved: 12/18/2018*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D2672-2017, Specification for Joints for IPS PVC Pipe Using Solvent Cement  
*Approved: 5/31/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D2683-2017, Specification for Socket-Type Polyethylene Fittings for Outside Diameter-Controlled Polyethylene Pipe and Tubing  
*Approved: 5/31/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D2737-2017, Specification for Polyethylene (PE) Plastic Tubing  
*Approved: 5/30/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D2749-2017, Symbols for Dimensions of Plastic Pipe Fittings  
*Approved: 5/31/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D2774-2017, Practice for Underground Installation of Thermoplastic Pressure Piping  
*Approved: 5/30/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D2846-2017, Specification for Chlorinated Poly(Vinyl Chloride) (CPVC) Plastic Hot- and Cold-Water Distribution Systems  
*Approved: 7/1/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D2846-2017, Specification for Chlorinated Poly(Vinyl Chloride) (CPVC) Plastic Hot- and Cold-Water Distribution Systems  
*Approved: 12/1/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D2846-2019, Specification for Chlorinated Poly(Vinyl Chloride) (CPVC) Plastic Hot- and Cold-Water Distribution Systems  
*Approved: 2/1/2019*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D2846-2019a, Specification for Chlorinated Poly(Vinyl Chloride) (CPVC) Plastic Hot- and Cold-Water Distribution Systems  
*Approved: 4/30/2019*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D2846/D2846M-2017, Specification for Chlorinated Poly(Vinyl Chloride) (CPVC) Plastic Hot- and Cold-Water Distribution Systems  
*Approved: 8/1/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D2855-2017, Practice for the Two-Step (Primer and Solvent Cement) Method of Joining Poly(Vinyl Chloride) (PVC) or Chlorinated Poly(Vinyl Chloride) (CPVC) Pipe and Piping Components with Tapered Sockets  
*Approved: 5/31/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D2859-2015, Test Method for Ignition Characteristics of Finished Textile Floor Covering Materials  
*Approved: 11/15/2015*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D2859-2016, Test Method for Ignition Characteristics of Finished Textile Floor Covering Materials  
*Approved: 6/21/2016*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D2925-2014 (R2019), Test Method for Beam Deflection of Fiberglass (Glass-Fiber-Reinforced Thermosetting Resin) Pipe Under Full Bore Flow  
*Approved: 8/20/2019*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D2949-2018, Specification for 3.25-in. Outside Diameter Poly(Vinyl Chloride) (PVC) Plastic Drain, Waste, and Vent Pipe and Fittings  
*Approved: 11/20/2018*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D3035-2017, Specification for Polyethylene (PE) Plastic Pipe (DR-PR) Based on Controlled Outside Diameter  
*Approved: 5/30/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D3122-2017, Specification for Solvent Cements for Styrene-Rubber (SR) Plastic Pipe and Fittings  
*Approved: 5/31/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D3138-2016, Specification for Solvent Cements for Transition Joints Between Acrylonitrile-Butadiene-Styrene (ABS) and Poly(Vinyl Chloride) (PVC) Non-Pressure Piping Components  
*Approved: 11/22/2016*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D3139-2018, Specification for Joints for Plastic Pressure Pipes Using Flexible Elastomeric Seals  
*Approved: 12/18/2018*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D3212-2017, Specification for Joints for Drain and Sewer Plastic Pipes Using Flexible Elastomeric Seals  
*Approved: 5/31/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D3240-2015, Test Method for Undissolved Water In Aviation Turbine Fuels  
*Approved: 6/23/2015*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D3241-2014a, Test Method for Thermal Oxidation Stability of Aviation Turbine Fuels  
*Approved: 10/21/2014*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D3241-2014b, Test Method for Thermal Oxidation Stability of Aviation Turbine Fuels  
*Approved: 12/23/2014*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D3241-2015, Test Method for Thermal Oxidation Stability of Aviation Turbine Fuels  
*Approved: 7/1/2015*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D3241-2016, Test Method for Thermal Oxidation Stability of Aviation Turbine Fuels  
*Approved: 2/1/2016*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D3241-2016a, Test Method for Thermal Oxidation Stability of Aviation Turbine Fuels  
*Approved: 7/26/2016*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D3241-2017, Test Method for Thermal Oxidation Stability of Aviation Turbine Fuels  
*Approved: 9/1/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D3241-2017, Test Method for Thermal Oxidation Stability of Aviation Turbine Fuels  
*Approved: 10/1/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D3241-2018, Test Method for Thermal Oxidation Stability of Aviation Turbine Fuels  
*Approved: 2/15/2018*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D3241-2019, Test Method for Thermal Oxidation Stability of Aviation Turbine Fuels  
*Approved: 3/1/2019*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D3241-2019, Test Method for Thermal Oxidation Stability of Aviation Turbine Fuels  
*Approved: 8/1/2019*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D3244-2016, Practice for Utilization of Test Data to Determine Conformance with Specifications  
*Approved: 6/21/2016*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D3244-2018, Practice for Utilization of Test Data to Determine Conformance with Specifications  
*Approved: 11/20/2018*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D3261-2016, Specification for Butt Heat Fusion Polyethylene (PE) Plastic Fittings for Polyethylene (PE) Plastic Pipe and Tubing  
*Approved: 11/22/2016*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D3311-2017, Specification for Drain, Waste, and Vent (DWV) Plastic Fittings Patterns  
*Approved: 5/30/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D3311-2017a, Specification for Drain, Waste, and Vent (DWV) Plastic Fittings Patterns  
*Approved: 8/22/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D3485-2017, Specification for Coilable High Density Polyethylene (HDPE) Cable in Conduit (CIC)  
*Approved: 5/30/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D3517-2019, Specification for Fiberglass (Glass-Fiber-Reinforced Thermosetting-Resin) Pressure Pipe  
*Approved: 8/20/2019*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D3678-2014, Specification for Rigid Poly (Vinyl Chloride) (PVC) Interior-Profile Extrusions  
*Approved: 8/19/2014*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D3679-2017, Specification for Rigid Poly (Vinyl Chloride) (PVC) Siding  
*Approved: 6/1/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D3753-2019, Specification for Glass-Fiber-Reinforced Polyester Manholes and Wetwells  
*Approved: 9/1/2019*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D3839-2014 (R2019), Guide for Underground Installation of Fiberglass (Glass-Fiber Reinforced Thermosetting-Resin) Pipe  
*Approved: 8/20/2019*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D3841-2016, Specification for Glass-Fiber-Reinforced Polyester Plastic Panels  
*Approved: 5/17/2016*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D3948-2014 (R2018), Test Method for Determining Water Separation Characteristics of Aviation Turbine Fuels by Portable Separometer  
*Approved: 11/20/2018*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D3948-2014, Test Method for Determining Water Separation Characteristics of Aviation Turbine Fuels by Portable Separometer  
*Approved: 12/23/2014*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D4054-2014, Practice for Qualification and Approval of New Aviation Turbine Fuels and Fuel Additives  
*Approved: 12/23/2014*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D4054-2016, Practice for Qualification and Approval of New Aviation Turbine Fuels and Fuel Additives  
*Approved: 4/19/2016*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D4054-2017, Practice for Qualification and Approval of New Aviation Turbine Fuels and Fuel Additives  
*Approved: 12/26/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D4054-2019, Practice for Evaluation of New Aviation Turbine Fuels and Fuel Additives  
*Approved: 5/21/2019*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D4068-2015, Specification for Chlorinated Polyethylene (CPE) Sheeting for Concealed Water-Containment Membrane  
*Approved: 5/26/2015*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D4068-2017, Specification for Chlorinated Polyethylene (CPE) Sheeting for Concealed Water-Containment Membrane  
*Approved: 3/28/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D4171-2016, Specification for Fuel System Icing Inhibitors  
*Approved: 6/21/2016*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D4171-2016a, Specification for Fuel System Icing Inhibitors  
*Approved: 12/20/2016*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D4226-2016, Test Methods for Impact Resistance of Rigid Poly(Vinyl Chloride) (PVC) Building Products  
*Approved: 5/17/2016*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D4306-2015, Practice for Aviation Fuel Sample Containers for Tests Affected by Trace Contamination  
*Approved: 10/20/2015*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D4308-2013, Test Method for Electrical Conductivity of Liquid Hydrocarbons by Precision Meter  
*Approved: 06/18/2013*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D4477-2016, Specification for Rigid (Unplasticized) Poly(Vinyl Chloride) (PVC) Soffit  
*Approved: 6/28/2016*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D4495-2016, Test Method for Impact Resistance of Poly(Vinyl Chloride) (PVC) Rigid Profiles by Means of a Falling Weight  
*Approved: 5/17/2016*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D4551-2017, Specification for Poly(Vinyl Chloride) (PVC) Plastic Flexible Concealed Water-Containment Membrane  
*Approved: 12/26/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D4726-2015, Specification for Rigid Poly (Vinyl Chloride) (PVC) Exterior-Profile Extrusions Used for Assembled Windows and Doors  
*Approved: 5/26/2015*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D4726-2018, Specification for Rigid Poly (Vinyl Chloride) (PVC) Exterior-Profile Extrusions Used for Assembled Windows and Doors  
*Approved: 8/21/2018*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D4756-2015, Practice for Installation of Rigid Poly(Vinyl Chloride) (PVC) Siding and Soffit  
*Approved: 2/1/2015*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D4803-2010 (R2018), Test Method for Predicting Heat Buildup in PVC Building Products  
*Approved: 4/24/2018*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D4803-2018, Test Method for Predicting Heat Buildup in PVC Building Products  
*Approved: 10/23/2018*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D4865-2009 (R2014), Guide for Generation and Dissipation of Static Electricity in Petroleum Fuel Systems  
*Approved: 10/21/2014*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D4865-2019, Guide for Generation and Dissipation of Static Electricity in Petroleum Fuel Systems  
*Approved: 7/23/2019*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D5001-2014 (R2014), Test Method for Measurement of Lubricity of Aviation Turbine Fuels by the Ball-on-Cylinder Lubricity Evaluator (BOCLE)  
*Approved: 10/21/2014*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D5006-2011 (R2016), Test Method for Measurement of Fuel System Icing Inhibitors (Ether Type) in Aviation Fuels  
*Approved: 4/19/2016*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D5206-2013, Test Method for Windload Resistance of Rigid Plastic Siding  
*Approved: 1/1/2013*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D5319-2017, Specification for Glass-Fiber Reinforced Polyester Wall and Ceiling Panels  
*Approved: 9/19/2017*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D5452-2012, Test Method for Particulate Contamination in Aviation Fuels by Laboratory Filtration  
*Approved: 6/26/2012*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D5813-2004 (R2018), Specification for Cured-In-Place Thermosetting Resin Sewer Piping Systems  
*Approved: 10/23/2018*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D5926-2015, Specification for Poly (Vinyl Chloride) (PVC) Gaskets for Drain, Waste, and Vent (DWV), Sewer, Sanitary, and Storm Plumbing Systems  
*Approved: 10/20/2015*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D6227-2017, Specification for Unleaded Aviation Gasoline Containing a Non-Hydrocarbon Component  
*Approved: 5/23/2017*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D6227-2018, Specification for Unleaded Aviation Gasoline Containing a Non-hydrocarbon Component  
*Approved: 11/20/2018*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D6259-2015 (R2019), Practice for Determination of a Pooled Limit of Quantitation for a Test Method  
*Approved: 5/12/2019*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D6259-2015, Practice for Determination of a Pooled Limit of Quantitation  
*Approved: 7/1/2015*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D6299-2016, Practice for Applying Statistical Quality Assurance and Control Charting Techniques to Evaluate Analytical Measurement System Performance  
*Approved: 1/26/2016*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D6299-2017, Practice for Applying Statistical Quality Assurance and Control Charting Techniques to Evaluate Analytical Measurement System Performance  
*Approved: 1/17/2017*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D6299-2017, Practice for Applying Statistical Quality Assurance and Control Charting Techniques to Evaluate Analytical Measurement System Performance  
*Approved: 12/26/2017*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D6299-2017a, Practice for Applying Statistical Quality Assurance and Control Charting Techniques to Evaluate Analytical Measurement System Performance  
*Approved: 11/15/2017*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D6299-2017b, Practice for Applying Statistical Quality Assurance and Control Charting Techniques to Evaluate Analytical Measurement System Performance  
*Approved: 12/15/2017*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D6299-2018, Practice for Applying Statistical Quality Assurance and Control Charting Techniques to Evaluate Analytical Measurement System Performance  
*Approved: 4/24/2018*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D6300-2015, Practice for Determination of Precision and Bias Data for Use in Test Methods for Petroleum Products and Lubricants  
*Approved: 6/23/2015*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D6300-2016, Practice for Determination of Precision and Bias Data for Use in Test Methods for Petroleum Products and Lubricants  
*Approved: 4/19/2016*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D6300-2016a, Practice for Determination of Precision and Bias Data for Use in Test Methods for Petroleum Products and Lubricants  
*Approved: 7/26/2016*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D6300-2017, Practice for Determination of Precision and Bias Data for Use in Test Methods for Petroleum Products and Lubricants  
*Approved: 7/25/2017*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D6300-2019, Practice for Determination of Precision and Bias Data for Use in Test Methods for Petroleum Products and Lubricants  
*Approved: 6/25/2019*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D6424-2004a (R2014), Practice for Octane Rating Naturally Aspirated Spark Ignition Aircraft Engines  
*Approved: 12/15/2014*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D6424-2004a (R2019), Practice for Octane Rating Naturally Aspirated Spark Ignition Aircraft Engines  
*Approved: 5/21/2019*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D6615-2015, Specification for Jet B Wide-Cut Aviation Turbine Fuel  
*Approved: 7/28/2015*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D6615-2015a, Specification for Jet B Wide-Cut Aviation Turbine Fuel  
*Approved: 4/20/2015*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D6617-2017, Practice for Laboratory Bias Detection Using Single Test Result from Standard Material  
*Approved: 5/23/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D6708-2015, Practice for Statistical Assessment and Improvement of Expected Agreement Between Two Test Methods that Purport to Measure the Same Property of a Material  
*Approved: 7/1/2015*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D6708-2016, Practice for Statistical Assessment and Improvement of Expected Agreement Between Two Test Methods that Purport to Measure the Same Property of a Material  
*Approved: 1/26/2016*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D6708-2016a, Practice for Statistical Assessment and Improvement of Expected Agreement Between Two Test Methods that Purport to Measure the Same Property of a Material  
*Approved: 4/19/2016*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D6708-2016b, Practice for Statistical Assessment and Improvement of Expected Agreement Between Two Test Methods that Purport to Measure the Same Property of a Material  
*Approved: 6/21/2016*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D6708-2018, Practice for Statistical Assessment and Improvement of Expected Agreement Between Two Test Methods that Purport to Measure the Same Property of a Material  
*Approved: 4/24/2018*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D6708-2019, Practice for Statistical Assessment and Improvement of Expected Agreement Between Two Test Methods that Purport to Measure the Same Property of a Material  
*Approved: 5/21/2019*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D6777-2016, Test Method for Relative Rigidity of Poly(Vinyl Chloride)(PVC) Siding  
*Approved: 6/28/2016*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D6792-2017, Practice for Quality System in Petroleum Products and Lubricants Testing Laboratories  
*Approved: 5/23/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D6812-2004b (R2014), Practice for Ground-Based Octane Rating Procedures for Turbocharged/Supercharged Spark Ignition Aircraft Engines  
*Approved: 12/15/2014*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D6812-2004b (R2019), Practice for Ground-Based Octane Rating Procedures for Turbocharged/Supercharged Spark Ignition Aircraft Engines  
*Approved: 5/21/2019*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D6824-2013 (R2018), Test Method for Determining Filterability of Aviation Turbine Fuel  
*Approved: 11/20/2018*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D6986-2010 (R2016), Test Method for Free Water, Particulate and Other Contamination in Aviation Fuels (Visual Inspection Procedures)  
*Approved: 10/18/2016*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D7082-2015, Specification for Polyethylene Stay In Place Form System for End Walls for Drainage Pipe  
*Approved: 10/20/2015*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D7219-2008 (R2014), Specification for Isotropic and Near-isotropic Nuclear Graphites  
*Approved: 5/20/2014*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D7223-2011 (R2015), Specification for Aviation Certification Turbine Fuel  
*Approved: 4/21/2015*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D7223-2016, Specification for Aviation Certification Turbine Fuel  
*Approved: 1/26/2016*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D7223-2016a, Specification for Aviation Certification Turbine Fuel  
*Approved: 7/26/2016*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D7223-2017, Specification for Aviation Certification Turbine Fuel  
*Approved: 7/1/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D7224-2014 (R2018), Test Method for Determining Water Separation Characteristics of Kerosine-Type Aviation Turbine Fuels Containing Additives by Portable Separometer  
*Approved: 11/20/2018*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D7224-2014, Test Method for Determining Water Separation Characteristics of Kerosine-Type Aviation Turbine Fuels Containing Additives by Portable Separometer  
*Approved: 12/23/2014*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D7254-2015, Specification for Polypropylene (PP) Siding  
*Approved: 4/21/2015*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D7254-2017, Specification for Polypropylene (PP) Siding  
*Approved: 6/1/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D7301-2011 (R2015), Specification for Nuclear Graphite Suitable for Components Subjected to Low Neutron Irradiation Dose  
*Approved: 6/23/2015*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D7372-2017, Guide for Analysis and Interpretation of Proficiency Test Program Results  
*Approved: 10/24/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D7445-2018, Specification for Rigid Poly (Vinyl Chloride) (PVC) Siding with Foam Plastic Backing (Backed Vinyl Siding)  
*Approved: 1/1/2018*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D7542-2015, Test Method for Air Oxidation of Carbon and Graphite in the Kinetic Regime  
*Approved: 10/20/2015*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D7547-2014a, Specification for Hydrocarbon Unleaded Aviation Gasoline  
*Approved: 10/21/2014*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D7547-2015, Specification for Hydrocarbon Unleaded Aviation Gasoline  
*Approved: 11/1/2015*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D7547-2017, Specification for Hydrocarbon Unleaded Aviation Gasoline  
*Approved: 5/23/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D7547-2017a, Specification for Hydrocarbon Unleaded Aviation Gasoline  
*Approved: 11/3/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D7547-2018, Specification for Hydrocarbon Unleaded Aviation Gasoline  
*Approved: 5/22/2018*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D7547-2018, Specification for Hydrocarbon Unleaded Aviation Gasoline  
*Approved: 11/20/2018*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D7566-2014b, Specification for Aviation Turbine Fuel Containing Synthesized Hydrocarbons  
*Approved: 10/21/2014*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D7566-2014c, Specification for Aviation Turbine Fuel Containing Synthesized Hydrocarbons  
*Approved: 12/23/2014*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D7566-2015, Specification for Aviation Turbine Fuel Containing Synthesized Hydrocarbons  
*Approved: 6/16/2015*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D7566-2015a, Specification for Aviation Turbine Fuel Containing Synthesized Hydrocarbons  
*Approved: 8/15/2015*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D7566-2015b, Specification for Aviation Turbine Fuel Containing Synthesized Hydrocarbons  
*Approved: 11/1/2015*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D7566-2016, Specification for Aviation Turbine Fuel Containing Synthesized Hydrocarbons  
*Approved: 4/19/2016*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D7566-2016a, Specification for Aviation Turbine Fuel Containing Synthesized Hydrocarbons  
*Approved: 6/21/2016*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D7566-2016b, Specification for Aviation Turbine Fuel Containing Synthesized Hydrocarbons  
*Approved: 7/26/2016*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D7566-2017, Specification for Aviation Turbine Fuel Containing Synthesized Hydrocarbons  
*Approved: 5/23/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D7566-2017, Specification for Aviation Turbine Fuel Containing Synthesized Hydrocarbons  
*Approved: 12/26/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D7566-2017a, Specification for Aviation Turbine Fuel Containing Synthesized Hydrocarbons  
*Approved: 10/24/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D7566-2018, Specification for Aviation Turbine Fuel Containing Synthesized Hydrocarbons  
*Approved: 4/24/2018*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D7566-2019, Specification for Aviation Turbine Fuel Containing Synthesized Hydrocarbons  
*Approved: 3/26/2019*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D7592-2015, Specification for Specification for Grade 94 Unleaded Aviation Gasoline Certification and Test Fuel  
*Approved: 6/23/2015*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D7592-2015a, Specification for Specification for Grade 94 Unleaded Aviation Gasoline Certification and Test Fuel  
*Approved: 10/20/2015*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D7618-2013 (R2017), Specification for Ethyl Tertiary-Butyl Ether (ETBE) for Blending with Aviation Spark-Ignition Engine Fuel  
*Approved: 6/20/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D7719-2014b, Specification for High-Octane Unleaded Fuel  
*Approved: 10/15/2014*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D7719-2014c, Specification for High-Octane Unleaded Fuel  
*Approved: 10/21/2014*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D7719-2014d, Specification for High-Octane Unleaded Fuel  
*Approved: 12/23/2014*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D7719-2015, Specification for High Aromatic Content Unleaded Hydrocarbon Aviation Gasoline  
*Approved: 6/23/2015*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D7719-2015a, Specification for High Aromatic Content Unleaded Hydrocarbon Aviation Gasoline  
*Approved: 10/20/2015*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D7719-2016, Specification for High Aromatic Content Unleaded Hydrocarbon Aviation Gasoline  
*Approved: 6/21/2016*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D7719-2016a, Specification for High Aromatic Content Unleaded Hydrocarbon Aviation Gasoline  
*Approved: 12/20/2016*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D7719-2017, Specification for High Aromatic Content Unleaded Hydrocarbon Aviation Gasoline  
*Approved: 10/24/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D7719-2018, Specification for High Aromatic Content Unleaded Hydrocarbon Aviation Gasoline  
*Approved: 11/20/2018*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D7739-2011 (R2016), Practice for Thermal Oxidative Stability Measurement via Quartz Crystal Microbalance  
*Approved: 4/19/2016*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D7775-2011 (R2015), Guide for Measurements on Small Graphite Specimens  
*Approved: 6/23/2015*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D7775-2016, Guide for Measurements on Small Graphite Specimens  
*Approved: 12/15/2016*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D7778-2018, Guide for Conducting an Interlaboratory Study to Determine the Precision of a Test Method

Approved: 12/4/2018

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D7779-2011 (R2015), Test Method for Determination of Fracture Toughness of Graphite at Ambient Temperature

Approved: 6/23/2015

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D7793-2017, Specification for Insulated Vinyl Siding

Approved: 6/1/2017

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D7797-2016, Test Method for Determination of the Fatty Acid Methyl Esters Content of Aviation Turbine Fuel Using Flow Analysis by Fourier Transform Infrared Spectroscopy - Rapid Screening Method

Approved: 5/17/2016

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D7797-2016a, Test Method for Determination of the Fatty Acid Methyl Esters Content of Aviation Turbine Fuel Using Flow Analysis by Fourier Transform Infrared Spectroscopy Rapid Screening Method

Approved: 10/18/2016

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D7797-2017, Test Method for Determination of the Fatty Acid Methyl Esters Content of Aviation Turbine Fuel Using Flow Analysis by Fourier Transform Infrared Spectroscopy Rapid Screening Method

Approved: 5/23/2017

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D7797-2019, Test Method for Determination of the Fatty Acid Methyl Esters Content of Aviation Turbine Fuel Using Flow Analysis by Fourier Transform Infrared Spectroscopy Rapid Screening Method

Approved: 12/18/2018

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D7826-2015, Guide for Evaluation of New Aviation Gasolines and New Aviation Gasoline Additives

Approved: 11/1/2015

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D7826-2016, Guide for Evaluation of New Aviation Gasolines and New Aviation Gasoline Additives

Approved: 4/19/2016

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D7826-2017, Guide for Evaluation of New Aviation Gasolines and New Aviation Gasoline Additives

Approved: 6/1/2017

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D7826-2017, Guide for Evaluation of New Aviation Gasolines and New Aviation Gasoline Additives

Approved: 12/26/2017

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D7826-2018, Guide for Evaluation of New Aviation Gasolines and New Aviation Gasoline Additives

Approved: 5/22/2018

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D7826-2018a, Guide for Evaluation of New Aviation Gasolines and New Aviation Gasoline Additives

Approved: 7/17/2018

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D7826-2019, Guide for Evaluation of New Aviation Gasolines and New Aviation Gasoline Additives

Approved: 5/21/2019

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D7846-2016, Practice for Reporting Uniaxial Strength Data and Estimating Weibull Distribution Parameters for Advanced Graphites

Approved: 1/26/2016

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D7856-2015, Specification for Color and Appearance Retention of Solid and Variegated Color Plastic Siding Products using CIE Lab Color Space

Approved: 4/21/2015

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D7856-2015a, Specification for Color and Appearance Retention of Solid and Variegated Color Plastic Siding Products using CIE Lab Color Space

Approved: 12/1/2015

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D7872-2013 (R2018), Test Method for Determining the Concentration of Pipeline Drag Reducer Additive in Aviation Turbine Fuels

Approved: 11/20/2018

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D7872-2013, Test Method for Determining the concentration of Pipeline Drag Reducer Additive in Aviation Turbine Fuels

Approved: 06/18/2013

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D7915-2018, Practice for Application of Generalized Extreme Studentized Deviate (GESD) Technique to Simultaneously Identify Multiple Outliers in a Data Set

Approved: 7/17/2018

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D7959-2016, Test Method for Chloride Content Determination

Approved: 12/20/2016

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D7959-2019, Test Method for Chloride Content Determination of Aviation Turbine Fuels using Chloride Test Strip

Approved: 5/21/2019

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D7960-2016, Specification for Unleaded Aviation Gasoline Test Fuel

Approved: 11/15/2016

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D7960-2017, Specification for Unleaded Aviation Gasoline Test Fuel Containing a Non-hydrocarbon Component

Approved: 12/26/2017

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D7960-2018, Specification for Unleaded Aviation Gasoline Test Fuel Containing Non-hydrocarbon Components

Approved: 11/20/2018

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D7972-2014, Test Method for 3 pt bend strength of carbon and graphite

Approved: 12/23/2014

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D7990-2015, Test Method For Standard Test Method for Using Reflectance Spectra to Produce an Index of Temperature Rise in Polymeric Siding

Approved: 12/1/2015

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D8073-2016, Test Method For Determination of water separation characteristics of Aviation Turbine Fuel by Small Scale Water Separation Instrument

Approved: 10/18/2016

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D8075-2016, Guide for Categorization of Microstructural and Microtextural Features Observed in Optical Micrographs of Graphite

Approved: 12/15/2016

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D8091-2016, Guide For Impregnation of Graphite with Molten Salt

Approved: 12/20/2016

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D8093-2016, Guide For Nondestructive Evaluation of Nuclear Grade Graphite

Approved: 12/20/2016

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D8146-2018, Guide for Evaluating Test Method Capability and Fitness for Use

Approved: 11/20/2018

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D8147-2017, Specification For Special-Purpose Test Fuels for Aviation Compression-Ignition Engines

Approved: 12/15/2017

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D8186-2018, Test Method for Measurement of Impurities in Graphite by Electrothermal Vaporization Inductively Coupled Plasma Optical Emission Spectrometry (ETV-ICP OES)

Approved: 11/20/2018

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D8194-2019, Practice For Evaluation of Suitability of 37mm Filter Monitors and 47mm Filters Used to Determine Particulate Contaminant in Aviation Turbine Fuel

Approved: 12/18/2018

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D8255-2019, Guide for Work of Fracture Measurements on Small Nuclear Graphite Specimens

Approved: 5/21/2019

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D910-2014, Specification for Aviation Gasolines

Approved: 9/1/2014

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D910-2016, Specification for Leaded Aviation Gasolines

Approved: 4/19/2016

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D910-2016a, Specification for Leaded Aviation Gasolines

Approved: 10/18/2016

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D910-2017, Specification for Leaded Aviation Gasolines

Approved: 5/23/2017

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM D910-2017a, Specification for Leaded Aviation Gasolines

Approved: 10/24/2017

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E0927-2018, Specification for Solar Simulation for Photovoltaic Testing

Approved: 1/23/2018

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E0948-2018, Test Method for Electrical Performance of Photovoltaic Cells Using Reference Cells Under Simulated Sunlight

Approved: 1/23/2018

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E0973-2018, Test Method for Determination of the Spectral Mismatch Parameter Between a Photovoltaic Device and a Photovoltaic Reference Cell

Approved: 1/23/2018

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E1021-2018 (R2019), Test Method for Spectral Responsivity Measurements of Photovoltaic Devices

Approved: 4/30/2019

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E1021-2018, Test Method for Spectral Responsivity Measurements of Photovoltaic Devices

Approved: 1/23/2018

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E1036-2018 (R2019), Test Methods for Electrical Performance of Nonconcentrator Terrestrial Photovoltaic Modules and Arrays Using Reference Cells

Approved: 4/30/2019

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E1036-2018, Test Methods for Electrical Performance of Nonconcentrator Terrestrial Photovoltaic Modules and Arrays Using Reference Cells

Approved: 1/23/2018

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E1040-2018, Specification for Physical Characteristics of Nonconcentrator Terrestrial Photovoltaic Reference Cells

Approved: 1/23/2018

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E105-2016, Practice for Probability Sampling of Materials

Approved: 6/14/2016

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E108-2016, Test Methods for Fire Tests of Roof Coverings

Approved: 10/1/2016

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E108-2017, Test Methods for Fire Tests of Roof Coverings

Approved: 2/1/2017

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E1125-2018, Test Method for Calibration of Primary Non-Concentrator Terrestrial Photovoltaic Reference Cells Using a Tabular Spectrum

Approved: 1/23/2018

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E1129-2017, Specification for Thermocouple Connectors

Approved: 12/26/2017

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E1143-2018 (R2019), Test Method for Determining the Linearity of a Photovoltaic Device Parameter with Respect to a Test Parameter

Approved: 4/30/2019

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E1143-2018, Test Method for Determining the Linearity of a Photovoltaic Device Parameter with Respect to a Test Parameter

Approved: 1/23/2018

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E1159-2017, Specification for Thermocouple Materials, Platinum-Rhodium Alloys, and Platinum

Approved: 12/26/2017

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E1169-2017, Practice for Conducting Ruggedness Tests

Approved: 10/24/2017

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E1169-2018, Practice for Conducting Ruggedness Tests

Approved: 10/1/2018

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E1171-2018 (R2019), Test Methods for Photovoltaic Modules in Cyclic Temperature and Humidity Environments

Approved: 4/30/2019

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E1171-2018, Test Methods for Photovoltaic Modules in Cyclic Temperature and Humidity Environments

Approved: 1/23/2018

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E119-2015, Test Methods for Fire Tests of Building Construction and Materials

Approved: 7/1/2015

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E119-2016, Test Methods for Fire Tests of Building Construction and Materials

Approved: 5/1/2016

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E119-2016a, Test Methods for Fire Tests of Building Construction and Materials

Approved: 7/1/2016

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E119-2018, Test Methods for Fire Tests of Building Construction and Materials

Approved: 3/1/2018

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E119-2018, Test Methods for Fire Tests of Building Construction and Materials

Approved: 6/1/2018

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E119-2018, Test Methods for Fire Tests of Building Construction and Materials

Approved: 11/20/2018

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E119-2018a, Test Methods for Fire Tests of Building Construction and Materials

Approved: 9/1/2018

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E122-2017, Practice for Calculating Sample Size to Estimate, With Specified Precision, the Average for a Characteristic of a Lot or Process

Approved: 6/13/2017

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E1302-2013 (R2017), Guide for Acute Animal Toxicity Testing of Water-Miscible Metalworking Fluids

Approved: 10/24/2017

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E1317-2019, Test Method for Flammability of Marine Surface Finishes

Approved: 4/15/2019

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E1321-2018, Test Method for Determining Material Ignition and Flame Spread Properties

Approved: 11/20/2018

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E1323-2015, Guide for Evaluating Laboratory Measurement Practices and the Statistical Analysis of the Resulting Data

Approved: 4/21/2015

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E1325-2015, Terminology Relating to Design of Experiments

Approved: 10/1/2015

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E1325-2016, Terminology Relating to Design of Experiments

Approved: 4/19/2016

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E1350-2017, Guide for Testing Sheathed Thermocouples, Thermocouples Assemblies, and Connecting Wires Prior to, and After Installation or Service

Approved: 12/26/2017

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E1350-2018, Guide for Testing Sheathed Thermocouples, Thermocouples Assemblies, and Connecting Wires Prior to, and After Installation or Service

Approved: 5/22/2018

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E1352-2016, Test Method for Cigarette Ignition Resistance of Mock-Up Upholstered Furniture Assemblies

Approved: 9/20/2016

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E1353-2016, Test Methods for Cigarette Ignition Resistance of Components of Upholstered Furniture

Approved: 9/20/2016

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E1354-2015, Test Method for Heat and Visible Smoke Release Rates for Materials and Products Using an Oxygen Consumption Calorimeter

Approved: 5/15/2015

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E1354-2015a, Test Method for Heat and Visible Smoke Release Rates for Materials and Products Using an Oxygen Consumption Calorimeter

Approved: 8/1/2015

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E1354-2016, Test Method for Heat and Visible Smoke Release Rates for Materials and Products Using an Oxygen Consumption Calorimeter

Approved: 2/1/2016

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E1354-2016a, Test Method for Heat and Visible Smoke Release Rates for Materials and Products Using an Oxygen Consumption Calorimeter

Approved: 5/1/2016

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E1354-2017, Test Method for Heat and Visible Smoke Release Rates for Materials and Products Using an Oxygen Consumption Calorimeter

Approved: 7/25/2017

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E1355-2012 (R2018), Guide for Evaluating the Predictive Capability of Deterministic Fire Models

Approved: 7/17/2018

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E136-2016, Test Method for Behavior of Materials in a Vertical Tube Furnace at 750C

Approved: 1/26/2016

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E136-2016a, Test Method for Behavior of Materials in a Vertical Tube Furnace at 750C

Approved: 11/22/2016

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E136-2019, Test Method for Behavior of Materials in a Vertical Tube Furnace at 750C

Approved: 2/1/2019

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E1362-2018 (R2019), Test Methods for Calibration of Non-Concentrator Photovoltaic Non-Primary Reference Cells

Approved: 4/30/2019

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E1362-2018, Test Methods for Calibration of Non-Concentrator Photovoltaic Non-Primary Reference Cells

Approved: 1/23/2018

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E1402-2013 (R2018), Guide for Sampling Design

Approved: 11/20/2018

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E141-2010 (R2018), Practice for Acceptance of Evidence Based on the Results of Probability Sampling

Approved: 4/24/2018

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E1462-2018, Test Methods for Insulation Integrity and Ground Path Continuity of Photovoltaic Modules

Approved: 2/20/2018

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E1462-2018, Test Methods for Insulation Integrity and Ground Path Continuity of Photovoltaic Modules

Approved: 1/23/2018

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E1474-2014, Test Method for Determining the Heat Release Rate of Upholstered Furniture and Mattress Components or Composites Using a Bench Scale Oxygen Consumption Calorimeter

Approved: 4/22/2014

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E1480-1992 (R2013), Terminology of Facility Management Building-Related <i>Approved: 1/29/2013</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a>	ASTM E1591-2013, Guide for Obtaining Data for Deterministic Fire Models <i>Approved: 4/23/2013</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a>	ASTM E1652-2017, Specification for Magnesium Oxide and Aluminum Oxide Powder and Crushable Insulators Used in the Manufacture of Base Metal Thermocouples, Metal-Sheathed Platinum Resistance Thermometers, and Noble Metal Thermocouples <i>Approved: 12/26/2017</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a>
ASTM E1488-2012 (R2018), Guide for Statistical Procedures to Use in Developing and Applying Test Methods <i>Approved: 4/24/2018</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a>	ASTM E1597-2018 (R2019), Test Method for Saltwater Pressure Immersion and Temperature Testing of Photovoltaic Modules for Marine Environments <i>Approved: 4/30/2019</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a>	ASTM E1660-1995A (R2018), Classification for Serviceability of an Office Facility for Support for Office Work <i>Approved: 3/20/2018</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a>
ASTM E1497-2017, Practice for Selection and Safe Use of Water-Miscible and Straight Oil Metal Removal Fluids <i>Approved: 10/24/2017</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a>	ASTM E1597-2018, Test Method for Saltwater Pressure Immersion and Temperature Testing of Photovoltaic Modules for Marine Environments <i>Approved: 1/23/2018</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a>	ASTM E1661-1995A (R2018), Classification for Serviceability of an Office Facility for Meetings and Group Effectiveness <i>Approved: 3/20/2018</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a>
ASTM E1529-2014, Test Methods for Determining Effects of Large Hydrocarbon Pool Fires on Structural Members and Assemblies <i>Approved: 11/25/2014</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a>	ASTM E162-2015, Test Method for Surface Flammability of Materials Using a Radiant Heat Energy Source <i>Approved: 6/23/2015</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a>	ASTM E1662-1995A (R2018), Classification for Serviceability of an Office Facility for Sound and Visual Environment <i>Approved: 3/20/2018</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a>
ASTM E1529-2014a, Test Methods for Determining Effects of Large Hydrocarbon Pool Fires on Structural Members and Assemblies <i>Approved: 12/15/2014</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a>	ASTM E162-2015a, Test Method for Surface Flammability of Materials Using a Radiant Heat Energy Source <i>Approved: 7/28/2015</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a>	ASTM E1663-2003 (R2019), Classification for Serviceability of an Office Facility for Typical Office Information Technology <i>Approved: 1/22/2019</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a>
ASTM E1529-2016, Test Methods for Determining Effects of Large Hydrocarbon Pool Fires on Structural Members and Assemblies <i>Approved: 11/1/2016</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a>	ASTM E162-2015b, Test Method for Surface Flammability of Materials Using a Radiant Heat Energy Source <i>Approved: 12/15/2015</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a>	ASTM E1664-1995A (R2018), Classification for Serviceability of an Office Facility for Layout and Building Factors <i>Approved: 3/20/2018</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a>
ASTM E1537-2015, Test Method for Fire Testing of Upholstered Furniture <i>Approved: 11/17/2015</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a>	ASTM E162-2016, Test Method for Surface Flammability of Materials Using a Radiant Heat Energy Source <i>Approved: 12/15/2016</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a>	ASTM E1664-2019, Classification for Serviceability of an Office Facility for Layout and Building Factors <i>Approved: 4/30/2019</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a>
ASTM E1537-2016, Test Method for Fire Testing of Upholstered Furniture <i>Approved: 12/15/2016</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a>	ASTM E1623-2014, Test Method for Determination of Fire and Thermal Parameters of Materials, Products, and Systems Using an Intermediate Scale Calorimeter (ICAL) <i>Approved: 11/25/2014</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a>	ASTM E1665-1995A (R2018), Classification for Serviceability of an Office Facility for Facility Protection <i>Approved: 3/20/2018</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a>
ASTM E1546-2015, Guide for Development of Fire-Hazard-Assessment Standards <i>Approved: 6/15/2015</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a>	ASTM E1623-2016, Test Method for Determination of Fire and Thermal Parameters of Materials, Products, and Systems Using an Intermediate Scale Calorimeter (ICAL) <i>Approved: 1/26/2016</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a>	ASTM E1666-1995A (R2018), Classification for Serviceability of an Office Facility for Work Outside Normal Hours or Conditions <i>Approved: 3/20/2018</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a>
ASTM E1590-2016, Test Method for Fire Testing of Mattresses <i>Approved: 11/15/2016</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a>		ASTM E1667-1995 (R2018), Classification for Serviceability of an Office Facility for Image to the Public and Occupants <i>Approved: 3/20/2018</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a>
ASTM E1590-2017, Test Method for Fire Testing of Mattresses <i>Approved: 3/1/2017</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a>		

ASTM E1668-1995A (R2018), Classification for Serviceability of an Office Facility for Amenities to Attract and Retain Staff  
*Approved: 3/20/2018*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E1669-1995A (R2018), Classification for Serviceability of an Office Facility for Location, Access and Wayfinding  
*Approved: 3/20/2018*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E1670-1995A (R2018), Classification for Serviceability of an Office Facility for Management of Operations and Maintenance  
*Approved: 3/20/2018*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E1671-1995A (R2018), Classification for Serviceability of an Office Facility for Cleanliness  
*Approved: 3/20/2018*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E1678-2015, Test Method for Measuring Smoke Toxicity for Use in Fire Hazard Analysis  
*Approved: 11/15/2015*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E1679-2013, Practice for Setting the Requirements for the Serviceability of a Building or Building-Related Facility  
*Approved: 10/29/2013*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E1684-2017, Specification for Miniature Thermocouple Connectors  
*Approved: 12/26/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E1687-2010 (R2014), Test Method for Determining Carcinogenic Potential of Virgin Base Oils in Metalworking Fluids  
*Approved: 10/15/2014*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E1692-1995A (R2018), Classification for Serviceability of an Office Facility for Change and Churn by Occupants  
*Approved: 3/20/2018*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E1693-1995 (R2018), Classification for Serviceability of an Office Facility for Protection of Occupant Assets  
*Approved: 3/20/2018*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E1694-1995A (R2018), Classification for Serviceability of an Office Facility for Special Facilities and Technologies  
*Approved: 3/20/2018*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E1700-2016, Classification for Serviceability of an Office Facility for Structure and Building Envelope  
*Approved: 10/18/2016*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E1701-1995 (R2018), Classification for Serviceability of an Office Facility for Manageability  
*Approved: 3/20/2018*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E1725-2019, Test Methods for Fire Tests of Fire-Resistive Barrier Systems for Electrical System Components  
*Approved: 6/1/2019*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E1725-2019a, Test Methods for Fire Tests of Fire-Resistive Barrier Systems for Electrical System Components  
*Approved: 7/15/2019*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E1740-2015, Test Method for Determining the Heat Release Rate and Other Fire-Test-Response Characteristics of Wall Covering or Ceiling Covering Composites Using a Cone Calorimeter  
*Approved: 4/21/2015*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E1751-2017, Guide for Temperature Electromotive Force (emf) Tables for Non-Letter Designated Thermocouple Combinations  
*Approved: 12/26/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E176-2014c, Terminology of Fire Standards  
*Approved: 11/25/2014*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E176-2015, Terminology of Fire Standards  
*Approved: 2/1/2015*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E176-2015a, Terminology of Fire Standards  
*Approved: 8/1/2015*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E176-2018, Terminology of Fire Standards  
*Approved: 3/1/2018*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E176-2019, Terminology of Fire Standards  
*Approved: 12/15/2018*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E177-2014, Practice for Use of the Terms Precision and Bias in ASTM Test Methods  
*Approved: 5/1/2014*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E1776-2016, Guide for Development of Fire-Risk-Assessment Standards  
*Approved: 6/21/2016*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E178-2016, Practice for Dealing with Outlying Observations  
*Approved: 6/14/2016*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E1799-2018 (R2018), Practice for Visual Inspections of Photovoltaic Modules  
*Approved: 5/22/2018*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E1799-2018, Practice for Visual Inspections of Photovoltaic Modules  
*Approved: 1/23/2018*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E18-2015, Test Methods for Rockwell Hardness of Metallic Materials  
*Approved: 2/1/2015*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E18-2016, Test Methods for Rockwell Hardness of Metallic Materials  
*Approved: 5/17/2016*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E18-2017, Test Methods for Rockwell Hardness of Metallic Materials  
*Approved: 7/1/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E18-2017, Test Methods for Rockwell Hardness of Metallic Materials  
*Approved: 10/1/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E18-2018, Test Methods for Rockwell Hardness of Metallic Materials  
*Approved: 7/1/2018*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E18-2018a, Test Methods for Rockwell Hardness of Metallic Materials  
*Approved: 10/1/2018*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E18-2019, Test Methods for Rockwell Hardness of Metallic Materials  
*Approved: 1/1/2019*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E1802-2018 (R2018), Test Methods for Wet Insulation Integrity Testing of Photovoltaic Modules  
*Approved: 5/22/2018*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E1802-2018, Test Methods for Wet Insulation Integrity Testing of Photovoltaic Modules  
*Approved: 1/23/2018*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E1822-2017, Test Method for Fire Testing of Stacked Chairs  
*Approved: 11/21/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E1830-2019 (R2019), Test Methods for Determining Mechanical Integrity of Photovoltaic Modules  
*Approved: 4/30/2019*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E1836-2009 (R2016), Practice for Building Floor Area Measurements for Facility Management  
*Approved: 3/22/2016*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E1869-2014, Guide for Confidentiality, Privacy, Access, and Data Security Principles for Health Information Including Electronic Health Records  
*Approved: 4/22/2014*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E1966-2015 (R2019), Test Method for Fire-Resistive Joint Systems  
*Approved: 4/30/2019*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E1966-2015, Test Method for Fire-Resistive Joint Systems  
*Approved: 6/23/2015*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E1994-2009 (R2018), Practice for Use of Process Oriented AOQL and LTPD Sampling Plans  
*Approved: 9/25/2018*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E1995-2016, Test Method for Measurement of Smoke Obscuration Using a Conical Radiant Source in a Single Closed Chamber, With the Test Specimen Oriented Horizontally  
*Approved: 12/20/2016*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E1995-2018, Test Method for Measurement of Smoke Obscuration Using a Conical Radiant Source in a Single Closed Chamber, With the Test Specimen Oriented Horizontally  
*Approved: 12/1/2018*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E2026-2015, Guide for Seismic Risk Assessment of Buildings  
*Approved: 12/15/2015*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E2026-2016, Guide for Seismic Risk Assessment of Buildings  
*Approved: 5/17/2016*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E2032-2009 (R2017), Guide for Extension of Data From Fire Resistance Tests Conducted in Accordance with ASTM E 119  
*Approved: 4/28/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E2047-2018 (R2019), Test Method for Wet Insulation Integrity Testing of Photovoltaic Arrays  
*Approved: 4/30/2019*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E2047-2018, Test Method for Wet Insulation Integrity Testing of Photovoltaic Arrays  
*Approved: 1/23/2018*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E2058-2019, Test Methods for Measurement of Material Flammability Using a Fire Propagation Apparatus (FPA)  
*Approved: 7/23/2019*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E2061-2015, Guide for Fire Hazard Assessment of Rail Transportation Vehicles  
*Approved: 11/17/2015*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E2061-2018, Guide for Fire Hazard Assessment of Rail Transportation Vehicles  
*Approved: 3/1/2018*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E2067-2015, Practice for Full-Scale Oxygen Consumption Calorimetry Fire Tests  
*Approved: 11/17/2015*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E207-2017, Test Method for Thermal EMF Test of Single Thermoelement Materials by Comparison with a Reference Thermoelement of Similar EMF-Temperature Properties  
*Approved: 12/26/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E2072-2014, Specification for Photoluminescent (Phosphorescent) Safety Markings  
*Approved: 8/1/2014*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E2073-2019, Reinstatement of Test Method for Photopic Luminance of Photoluminescent (Phosphorescent) Markings  
*Approved: 7/9/2019*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E2102-2015, Test Method for Measurement of Mass Loss and Ignitability for Screening Purposes Using a Conical Radiant Heater  
*Approved: 10/20/2015*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E2102-2017, Test Method for Measurement of Mass Loss and Ignitability for Screening Purposes Using a Conical Radiant Heater  
*Approved: 7/25/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E2136-2013, Standard Guide for Specifying and Evaluating Performance of Single Family Attached and Detached Dwellings-Durability  
*Approved: 1/29/2013*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E2144-2011 (R2016), Practice for Personal Sampling and Analysis of Endotoxin in Metalworking Fluid Aerosols in Workplace Atmospheres  
*Approved: 10/18/2016*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E2148-2016, Guide for Using Documents Related to Metalworking or Metal Removal Fluid Health and Safety  
*Approved: 10/18/2016*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E2151-2010, Terminology Of Guides For Specifying And Evaluating Performance Of Single Family Attached And Detached Dwellings  
*Approved: 10/1/2010*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E2156-2013, Standard Guide for Evaluating Economic Performance of Alternative Designs, Systems, and Materials in Compliance with Performance Standard Guides for Single-Family Attached and Detached Dwellings  
*Approved: 1/29/2013*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E2159-2015, Guide for Selection, Assignment, and Monitoring of Persons to Be Utilized as Assessors/Auditors or Technical Experts  
*Approved: 6/15/2015*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E2169-2017, Practice for Selecting Antimicrobial Pesticides for Use in Water-Miscible Metalworking Fluids  
*Approved: 3/28/2017*  
cleonard@astm.org

ASTM E2181-2017, Specification for Compacted Mineral-Insulated, Metal-Sheathed, Noble Metal Thermocouples and Thermocouple Cable  
*Approved: 12/26/2017*  
cleonard@astm.org

ASTM E2187-2016, Test Method for Measuring the Ignition Strength of Cigarettes  
*Approved: 6/1/2016*  
cleonard@astm.org

ASTM E220-2017, Test Method for Calibration of Thermocouples By Comparison Techniques  
*Approved: 12/26/2017*  
cleonard@astm.org

ASTM E2226-2015 (R2019), Practice for Application of Hose Stream  
*Approved: 4/30/2019*  
cleonard@astm.org

ASTM E2226-2015, Practice for Application of Hose Stream  
*Approved: 4/21/2015*  
cleonard@astm.org

ASTM E2226-2015a, Practice for Application of Hose Stream  
*Approved: 6/23/2015*  
cleonard@astm.org

ASTM E2226-2015b, Practice for Application of Hose Stream  
*Approved: 10/20/2015*  
cleonard@astm.org

ASTM E2231-2015, Practice for Specimen Preparation and Mounting of Pipe and Duct Insulation Materials to Assess Surface Burning Characteristics  
*Approved: 4/21/2015*  
cleonard@astm.org

ASTM E2231-2018, Practice for Specimen Preparation and Mounting of Pipe and Duct Insulation Materials to Assess Surface Burning Characteristics  
*Approved: 3/1/2018*  
cleonard@astm.org

ASTM E2234-2009 (R2018), Practice for Sampling a Stream of Product by Attributes Indexed by AQL  
*Approved: 9/25/2018*  
cleonard@astm.org

ASTM E2236-2018 (R2019), Test Methods for Measurement of Electrical Performance and Spectral Response of Nonconcentrator Multijunction Photovoltaic Cells and Modules  
*Approved: 4/30/2019*  
cleonard@astm.org

ASTM E2236-2018, Test Methods for Measurement of Electrical Performance and Spectral Response of Nonconcentrator Multijunction Photovoltaic Cells and Modules  
*Approved: 1/23/2018*  
cleonard@astm.org

ASTM E2257-2016, Test Method for Room Fire Test of Wall and Ceiling Materials and Assemblies  
*Approved: 2/1/2016*  
cleonard@astm.org

ASTM E2257-2017, Test Method for Room Fire Test of Wall and Ceiling Materials and Assemblies  
*Approved: 4/15/2017*  
cleonard@astm.org

ASTM E2267-2013, GUIDE FOR SPECIFYING AND EVALUATING PERFORMANCE OF SINGLE FAMILY ATTACHED AND DETACHED DWELLINGS --INDOOR AIR QUALITY  
*Approved: 1/29/2013*  
cleonard@astm.org

ASTM E2280-2017, Guide for Fire Hazard Assessment of the Effect of Upholstered Seating Furniture Within Patient Rooms of Health Care Facilities  
*Approved: 12/26/2017*  
cleonard@astm.org

ASTM E2281-2015, Practice for Process and Measurement Capability Indices  
*Approved: 10/20/2015*  
cleonard@astm.org

ASTM E2282-2014 (R2019), Guide for Defining the Test Result of a Test Method  
*Approved: 4/30/2019*  
cleonard@astm.org

ASTM E2282-2014, Guide for Defining the Test Result of a Test Method  
*Approved: 10/21/2014*  
cleonard@astm.org

ANSI/ASTM E23-2016a, Test Methods for Notched Bar Impact Testing of Metallic Materials  
*Approved: 4/1/2016*  
cleonard@astm.org

ASTM E23-2016, Test Methods for Notched Bar Impact Testing of Metallic Materials  
*Approved: 1/1/2016*  
cleonard@astm.org

ASTM E23-2016b, Test Methods for Notched Bar Impact Testing of Metallic Materials  
*Approved: 6/21/2016*  
cleonard@astm.org

ASTM E23-2018, Test Methods for Notched Bar Impact Testing of Metallic Materials  
*Approved: 6/1/2018*  
cleonard@astm.org

ASTM E230-2017, Specification for Temperature-Electromotive Force (emf) Tables for Standardized Thermocouples  
*Approved: 11/21/2017*  
cleonard@astm.org

ASTM E2307-2015, Test Method for Determining Fire Resistance of Perimeter Fire Barriers Using Intermediate-Scale, Multi-story Test Apparatus  
*Approved: 1/20/2015*  
cleonard@astm.org

ASTM E2307-2015a, Test Method for Determining Fire Resistance of Perimeter Fire Barriers Using Intermediate-Scale, Multi-story Test Apparatus  
*Approved: 4/21/2015*  
cleonard@astm.org

ASTM E2307-2015b, Test Method for Determining Fire Resistance of Perimeter Fire Barriers Using Intermediate-Scale, Multi-story Test Apparatus  
*Approved: 10/20/2015*  
cleonard@astm.org

ASTM E2307-2019, Test Method for Determining Fire Resistance of Perimeter Fire Barriers Using Intermediate-Scale, Multi-story Test Apparatus  
*Approved: 7/23/2019*  
cleonard@astm.org

ASTM E2320-2004 (R2018), Classification for Serviceability of an Office Facility for Thermal Environment and Indoor Air Conditions  
*Approved: 3/20/2018*  
cleonard@astm.org

ASTM E2334-2008 (R2018), Practice for Setting an Upper Confidence Bound for a Fraction or Number of Non-Conforming items, or a Rate of Occurrence for Non-Conformities, Using Attribute Data, When There Is a Zero Response in the Sample  
*Approved: 9/25/2018*  
cleonard@astm.org

ASTM E2335-2017, Guide for Laboratory Monitors  
*Approved: 7/25/2017*  
cleonard@astm.org

<p>ASTM E2336-2016, Test Methods for Fire Resistive Grease Duct Enclosure Systems <i>Approved: 4/1/2016</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a></p>	<p>ASTM E2523-2013 (R2018), Terminology for Metalworking Fluids and Operations <i>Approved: 10/23/2018</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a></p>	<p>ASTM E2573-2017, Practice for Specimen Preparation and Mounting of Site-Fabricated Stretch Systems to Assess Surface Burning Characteristics <i>Approved: 7/25/2017</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a></p>
<p>ASTM E235-2017 (R2018), Specification for Thermocouples, Sheathed, Type K and Type N, for Nuclear or for Other High-Reliability Applications <i>Approved: 4/24/2018</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a></p>	<p>ASTM E2527-2018 (R2019), Test Method for Electrical Performance of Concentrator Terrestrial Photovoltaic Modules and Systems Under Natural Sunlight <i>Approved: 4/30/2019</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a></p>	<p>ASTM E2574/E2574M-2017, Test Method for Fire Testing of School Bus Seat Assemblies <i>Approved: 7/25/2017</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a></p>
<p>ASTM E235-2019, Specification for Type K and Type N Mineral-Insulated, Metal-Sheathed Thermocouples for Nuclear or for Other High-Reliability Applications <i>Approved: 5/21/2019</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a></p>	<p>ASTM E2527-2018, Test Method for Electrical Performance of Concentrator Terrestrial Photovoltaic Modules and Systems Under Natural Sunlight <i>Approved: 1/23/2018</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a></p>	<p>ASTM E2579-2015, Practice for Specimen Preparation and Mounting of Wood Products to Assess Surface Burning Characteristics <i>Approved: 4/21/2015</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a></p>
<p>ASTM E2351-2013, Standard Guide for Specifying and Evaluating Performance of Single Family Attached and Detached Dwellings-Functionality <i>Approved: 1/29/2013</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a></p>	<p>ASTM E2536-2015, Guide for Assessment of Measurement Uncertainty in Fire Tests <i>Approved: 1/20/2015</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a></p>	<p>ASTM E2579-2019, Practice for Specimen Preparation and Mounting of Wood Products to Assess Surface Burning Characteristics <i>Approved: 4/1/2019</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a></p>
<p>ASTM E2404-2015, Practice for Specimen Preparation and Mounting of Textile, Paper or Polymeric (Including Vinyl) Wall or Ceiling Coverings, and of Facings and Wood Veneers Intended to be Applied on Site Over a Wood Substrate, to Assess Surface Burning Characteristics <i>Approved: 4/21/2015</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a></p>	<p>ASTM E2536-2015a, Guide for Assessment of Measurement Uncertainty in Fire Tests <i>Approved: 10/20/2015</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a></p>	<p>ASTM E2586-2016, Practice for Calculating and Using Basic Statistics <i>Approved: 11/22/2016</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a></p>
<p>ASTM E2404-2015a, Practice for Specimen Preparation and Mounting of Textile, Paper or Polymeric (Including Vinyl) Wall or Ceiling Coverings, and of Facings and Wood Veneers Intended to be Applied on Site Over a Wood Substrate, to Assess Surface Burning Characteristics <i>Approved: 6/23/2015</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a></p>	<p>ASTM E2554-2018, Practice for Estimating and Monitoring the Uncertainty of Test Results of a Test Method Using Control Chart Techniques <i>Approved: 4/24/2018</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a></p>	<p>ASTM E2586-2018, Practice for Calculating and Using Basic Statistics <i>Approved: 5/15/2018</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a></p>
<p>ASTM E2404-2017, Practice for Specimen Preparation and Mounting of Textile, Paper or Polymeric (Including Vinyl) and Wood Wall or Ceiling Coverings, Facings and Veneers, to Assess Surface Burning Characteristics <i>Approved: 7/25/2017</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a></p>	<p>ASTM E2555-2012 (R2018), Practice for Factors and Procedures for Applying the MIL-STD-105 Plans in Life and Reliability Inspection <i>Approved: 4/24/2018</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a></p>	<p>ASTM E2586-2019, Practice for Calculating and Using Basic Statistics <i>Approved: 4/30/2019</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a></p>
<p>ASTM E2481-2018 (R2018), Test Method for Hot Spot Protection Testing of Photovoltaic Modules <i>Approved: 5/22/2018</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a></p>	<p>ASTM E2557-2015, Practice for Probable Maximum Loss (PML) Evaluations for Earthquake Due-Diligence Assessments <i>Approved: 12/15/2015</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a></p>	<p>ASTM E2587-2014, Practice for Use of Control Charts in Statistical Process Control <i>Approved: 10/21/2014</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a></p>
<p>ASTM E2489-2016, Practice for Statistical Analysis of One-Sample and Two-Sample Interlaboratory Proficiency Testing Programs <i>Approved: 11/15/2016</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a></p>	<p>ASTM E2557-2016, Practice for Probable Maximum Loss (PML) Evaluations for Earthquake Due-Diligence Assessments <i>Approved: 5/17/2016</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a></p>	<p>ASTM E2587-2015, Practice for Use of Control Charts in Statistical Process Control <i>Approved: 4/21/2015</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a></p>
	<p>ASTM E2563-2018, Practice for Enumeration of Non-Tuberculosis Mycobacteria in Aqueous Metalworking Fluids by Plate Count Method <i>Approved: 10/23/2028</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a></p>	<p>ASTM E2587-2016, Practice for Use of Control Charts in Statistical Process Control <i>Approved: 4/19/2016</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a></p>
	<p>ASTM E2564-2018, Practice for Enumeration of Mycobacteria in Metalworking Fluids by Direct Microscopic Counting (DMC) Method <i>Approved: 10/23/2018</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a></p>	<p>ASTM E2599-2015, Practice for Specimen Preparation and Mounting of Reflective Insulation, Radiant Barrier and Vinyl Stretch Ceiling Materials for Building Applications to Assess Surface Burning Characteristics <i>Approved: 4/21/2015</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a></p>

ASTM E2599-2016, Practice for Specimen Preparation and Mounting of Reflective Insulation, Radiant Barrier and Vinyl Stretch Ceiling Materials for Building Applications to Assess Surface Burning Characteristics  
*Approved: 7/1/2016*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E2599-2018, Practice for Specimen Preparation and Mounting of Reflective Insulation, Radiant Barrier and Vinyl Stretch Ceiling Materials for Building Applications to Assess Surface Burning Characteristics  
*Approved: 3/1/2018*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E2619-2017, Practice for Measuring and Calculating Building Loss Features That Take Up Floor Area in Buildings  
*Approved: 10/24/2017*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E2632-2013, Test Method for Evaluating the Under-Deck Fire Test Response of Deck Materials

*Approved: 2/1/2013*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E2652-2016, Test Method for Behavior of Materials in a Tube Furnace with a Cone-shaped Airflow Stabilizer, at 750C  
*Approved: 1/26/2016*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E2652-2019, Test Method for Behavior of Materials in a Tube Furnace with a Cone-shaped Airflow Stabilizer, at 750C  
*Approved: 12/15/2018*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E2653-2014, Practice for Conducting an Interlaboratory Study to Determine Precision Estimates for a Fire Test Method with Fewer Than Six Participating Laboratories  
*Approved: 12/1/2014*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E2653-2015, Practice for Conducting an Interlaboratory Study to Determine Precision Estimates for a Fire Test Method with Fewer Than Six Participating Laboratories  
*Approved: 7/1/2015*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E2655-2014, Guide for Reporting Uncertainty of Test Results and Use of the Term Measurement Uncertainty in ASTM Test Methods  
*Approved: 10/21/2014*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E2657-2016, Test Method for Determination of Endotoxin Concentrations in Water-Miscible Metalworking Fluids

*Approved: 10/18/2016*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E2659-2015, Practice for Certificate Programs

*Approved: 3/1/2015*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E2659-2017, Practice for Certificate Programs

*Approved: 1/1/2017*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E2659-2018, Practice for Certificate Programs

*Approved: 1/23/2018*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E2685-2018 (R2019), Specification for Steel Blades Used with the Photovoltaic Module Surface Cut Test

*Approved: 4/30/2019*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E2685-2018, Specification for Steel Blades Used with the Photovoltaic Module Surface Cut Test

*Approved: 1/23/2018*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E2688-2016, Practice for Specimen Preparation and Mounting of Tapes to Assess Surface Burning Characteristics

*Approved: 8/9/2016*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E2688-2018, Practice for Specimen Preparation and Mounting of Tapes to Assess Surface Burning Characteristics

*Approved: 3/1/2018*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E2690-2017, Practice for Specimen Preparation and Mounting of Caulks and Sealants to Assess Surface Burning Characteristics

*Approved: 5/15/2017*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E2690-2017a, Practice for Specimen Preparation and Mounting of Caulks and Sealants to Assess Surface Burning Characteristics

*Approved: 7/25/2017*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E2690-2017b, Practice for Specimen Preparation and Mounting of Caulks and Sealants to Assess Surface Burning Characteristics

*Approved: 11/21/2017*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E2693-2014, Practice for Prevention of Dermatitis in the Wet Metal Removal Fluid Environment

*Approved: 9/1/2014*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E2694-2016, Test Method for Measurement of Adenosine Triphosphate in Water-Miscible Metalworking Fluids

*Approved: 10/18/2016*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E2696-2009 (R2018), Practice for Life and Reliability Testing Based on the Exponential Distribution

*Approved: 12/1/2018*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E2707-2015, Test Method for Determining Fire Penetration of Exterior Wall Assemblies Using a Direct Flame Impingement Exposure

*Approved: 10/20/2015*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E2708-2016, Terminology for Personnel Credentialing

*Approved: 3/15/2016*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E2708-2017, Terminology for Accreditation and Certification

*Approved: 2/15/2017*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E2708-2018, Terminology for Accreditation and Certification

*Approved: 4/1/2018*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E2708-2018, Terminology for Accreditation and Certification

*Approved: 7/1/2018*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E2709-2014, Practice for Demonstrating Capability to Comply with an Acceptance Procedure

*Approved: 10/21/2014*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E2709-2019, Practice for Demonstrating Capability to Comply with an Acceptance Procedure

*Approved: 4/30/2019*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E2726-2012a (R2017), Test Method for Evaluating the Fire-Test-Response of Deck Structures to Burning Brands

*Approved: 12/15/2017*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E2730-2017, Practice for Calibration and Use of Thermocouple Reference Junction Probes in Evaluation of Electronic Reference Junction Compensation Circuits  
*Approved: 12/26/2017*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E2748-2017, Guide for Fire-Resistance Experiments  
*Approved: 1/17/2017*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E2749-2010 (R2019), Practice for Measuring the Uniformity of Furnace Exposure on Test Specimens  
*Approved: 4/30/2019*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E2749-2015, Practice for Measuring the Uniformity of Furnace Exposure on Test Specimens  
*Approved: 6/23/2015*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E2750-2017, Guide for Extension of Data from Penetration Firestop System Tests Conducted in Accordance with ASTM  
*Approved: 11/21/2017*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E2762-2010 (R2014), Practice for Sampling a Stream of Product by Variables Indexed by AQL  
*Approved: 4/22/2014*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E2766-2018 (R2019), Practice for Installation of Roof Mounted Photovoltaic Arrays on Steep-Slope Roofs  
*Approved: 4/30/2019*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E2766-2018, Practice for Installation of Roof Mounted Photovoltaic Arrays on Steep-Slope Roofs  
*Approved: 1/23/2018*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E2768-2018, Test Method for Extended Duration Surface Burning Characteristics of Building Materials (30 min Tunnel Test)  
*Approved: 8/1/2018*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E2782-2017, Guide for Measurement Systems Analysis (MSA)  
*Approved: 1/1/2017*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E2816-2015, Test Methods for Fire Resistive Metallic HVAC Duct Systems  
*Approved: 1/20/2015*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E2816-2015, Test Methods for Fire Resistive Metallic HVAC Duct Systems  
*Approved: 10/20/2015*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E2816-2017, Test Methods for Fire Resistive Metallic HVAC Duct Systems  
*Approved: 7/1/2017*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E2816-2018, Test Methods for Fire Resistive Metallic HVAC Duct Systems  
*Approved: 2/1/2018*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E2816-2018a, Test Methods for Fire Resistive Metallic HVAC Duct Systems  
*Approved: 3/15/2018*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E2816-2018b, Test Methods for Fire Resistive Metallic HVAC Duct Systems  
*Approved: 4/24/2018*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E2816-2018c, Test Methods for Fire Resistive Metallic HVAC Duct Systems  
*Approved: 6/1/2018*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E2819-2011 (R2015), Practice for Single- and Multi-Level Continuous Sampling of a Stream of Product by Attributes Indexed by AQL  
*Approved: 5/15/2015*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E2820-2017 (R2019), Test Method for Evaluating Thermal EMF Properties of Base-Metal Thermocouple Connectors  
*Approved: 5/21/2019*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E2820-2017, Test Method for Evaluating Thermal EMF Properties of Base-Metal Thermocouple Connectors  
*Approved: 12/26/2017*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E2833-2012 (R2018), Practice for Certification Bodies that Certify Personnel Engaged in Inspection and Testing of Construction Activities and Materials Used in Construction, Including Special Inspection  
*Approved: 3/20/2018*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E2837-2013 (R2017), Test Method for Determining the Fire Resistance of Continuity Head-of-Wall Joint Systems Installed Between Rated Wall Assemblies and Nonrated Horizontal Assemblies  
*Approved: 4/28/2017*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E2846-2017, Guide for Thermocouple Verification  
*Approved: 12/26/2017*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E2846-2017, Guide for Thermocouple Verification  
*Approved: 12/26/2017*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E2848-2018 (R2018), Test Method for Reporting Photovoltaic Non-Concentrator System Performance  
*Approved: 5/22/2018*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E2849-2013, Practice for Professional Certification Performance Testing  
*Approved: 12/24/2013*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E2849-2018, Practice for Professional Certification Performance Testing  
*Approved: 11/20/2018*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E2874-2019, Test Method For Determining the Fire Performance of Building Perimeter Containment Systems Due to External Spread of Fire  
*Approved: 2/1/2019*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E2886-2014, Test Method for Evaluating the Ability of Exterior Vents to Resist the Entry of Embers and Direct Flame Impingement  
*Approved: 5/20/2014*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E2889-2012 (R2017), Practice for Control of Respiratory Hazards in the Metal Removal Fluid Environment  
*Approved: 10/14/2017*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E29-2013 (R2019), Practice for Using Significant Digits in Test Data to Determine Conformance with Specifications  
*Approved: 1/22/2019*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E2908-2018 (R2018), Guide for Fire Prevention for Photovoltaic Panels, Modules, and Systems  
*Approved: 5/22/2018*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E2910-2012 (R2018), Guide for Preferred Methods for Acceptance of Product  
*Approved: 4/24/2018*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E2912-2017, Test Method for Fire Test of Non-Mechanical Fire Dampers Used in Vented Construction  
*Approved: 8/1/2017*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E2935-2015, Practice for Conducting Equivalence Testing in Laboratory Applications

Approved: 10/20/2015

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E2935-2016, Practice for Conducting Equivalence Testing in Laboratory Applications

Approved: 11/22/2016

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E2935-2017, Practice for Conducting Equivalence Testing in Laboratory Applications

Approved: 10/24/2017

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E2939-2018 (R2018), Practice for Determining Reporting Conditions and Expected Capacity for Photovoltaic Non-Concentrator Systems

Approved: 5/22/2018

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E2957-2015, Test Method for Flammability and Resistance of Eaves, Soffits and Other Horizontal Projections to Fire Penetration

Approved: 7/28/2015

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E2957-2017, Test Method for Resistance to Wildfire Penetration of Eaves, Soffits and Other Projections

Approved: 5/1/2017

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E2965-2015, Test Method for Determination of Low Levels Heat Release Rate for Materials and Products Using an Oxygen Consumption Calorimeter

Approved: 8/1/2015

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E2965-2016, Test Method for Determination of Low Levels Heat Release Rate for Materials and Products Using an Oxygen Consumption Calorimeter

Approved: 1/26/2016

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E2965-2016a, Test Method for Determination of Low Levels of Heat Release Rate for Materials and Products Using an Oxygen Consumption Calorimeter

Approved: 9/20/2016

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E2965-2017, Test Method for Determination of Low Levels of Heat Release Rate for Materials and Products Using an Oxygen Consumption Calorimeter

Approved: 8/1/2017

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E2988-2015a, Practice for Specimen Preparation and Mounting of Flexible Fibrous Glass Insulation for Metal Buildings to Assess Surface Burning Characteristics

Approved: 7/28/2015

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E2988-2017, Practice for Specimen Preparation and Mounting of Flexible Fibrous Glass Insulation for Metal Buildings to Assess Surface Burning Characteristics

Approved: 11/21/2017

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E2989-2015, Guide For Assessment of Continued Applicability of Fire Test Reports Used in Building Regulation

Approved: 2/1/2015

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E2989-2015a, Guide for Assessment of Continued Applicability of Fire Test Reports Used in Building Regulation

Approved: 8/1/2015

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E2989-2019, Guide for Assessment of Continued Applicability of Fire Test Reports Used in Building Regulation

Approved: 5/1/2019

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E3006-2018, Practice for Ultraviolet Conditioning of Photovoltaic Modules or Mini-Modules Using a Fluorescent Ultraviolet (UV) Lamp Apparatus

Approved: 1/23/2018

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E3010-2015 (R2019), Practice for Installation, Commissioning, Operation, and Maintenance Process (ICOMP) of Photovoltaic Arrays

Approved: 4/30/2019

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E3010-2015, Practice for Installation, Commissioning, Operation and Maintenance Process (ICOMP) of Photovoltaic Arrays

Approved: 4/21/2015

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E3020-2015, Practice for Ignition Sources

Approved: 8/1/2015

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E3020-2016, Practice for Ignition Sources

Approved: 6/21/2016

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E3020-2016a, Practice for Ignition Sources

Approved: 9/20/2016

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E3021-2015 (R2019), Guide for Evaluating the Relative Effectiveness of Building Systems to Resist the Passage of Products of Combustion Based on the Aggregation of Leakage Rates

Approved: 4/30/2019

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E3021-2015, Guide for Evaluating the Relative Effectiveness of Building Systems to Resist the Passage of Products of Combustion Based on the Aggregation of Leakage Rates1

Approved: 8/1/2015

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E3048-2017, Test Method for Determination of Time to Burn-Through Using the Intermediate Scale Calorimeter (ICAL) Radiant Panel

Approved: 9/1/2017

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E3048-2019, Test Method for Determination of Time to Burn-Through Using the Intermediate Scale Calorimeter (ICAL) Radiant Panel

Approved: 3/1/2019

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E3048-2019, Test Method for Determination of Time to Burn-Through Using the Intermediate Scale Calorimeter (ICAL) Radiant Panel

Approved: 2/1/2019

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E3075-2018, Test Method for Water Immersion and Drying for Evaluation of Flood Damage Resistance

Approved: 6/12/2018

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E3075-2018, Test Method for Water Immersion and Drying for Evaluation of Flood Damage Resistance

Approved: 11/20/2018

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E3080-2017, Practice for Regression Analysis

Approved: 11/21/2017

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM E3082-2017, Test Methods For Determining the Effectiveness of Fire Retardant Treatments for Natural Christmas Trees

Approved: 7/25/2017

[cleonard@astm.org](mailto:cleonard@astm.org)

<p>ASTM E3134-2017, Specification For Transportation Tunnel Structural Components and Passive Fire Protection Systems <i>Approved: 12/26/2017</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a></p>	<p>ASTM E601-2017, Guide for Measuring Electromotive Force (emf) Stability of Base-Metal Thermoelement Materials with Time in Air <i>Approved: 12/26/2017</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a></p>	<p>ASTM E662-2017a, Test Method for Specific Optical Density of Smoke Generated by Solid Materials <i>Approved: 7/25/2017</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a></p>
<p>ASTM E3159-2018, Guide To General Reliability <i>Approved: 4/24/2018</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a></p>	<p>ASTM E603-2017, Guide for Room Fire Experiments <i>Approved: 7/25/2017</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a></p>	<p>ASTM E662-2019, Test Method for Specific Optical Density of Smoke Generated by Solid Materials <i>Approved: 12/18/2018</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a></p>
<p>ASTM E329-2018, Specification for Agencies Engaged in Construction Inspection, Testing, or Special Inspection <i>Approved: 1/23/2018</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a></p>	<p>ASTM E608-2017, Specification for Mineral-Insulated, Metal-Sheathed Base Metal Thermocouples <i>Approved: 12/26/2017</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a></p>	<p>ASTM E662-2019, Test Method for Specific Optical Density of Smoke Generated by Solid Materials <i>Approved: 9/1/2019</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a></p>
<p>ASTM E452-2017 (R2018), Test Method for Calibration of Refractory Metal Thermocouples Using a Radiation Thermometer <i>Approved: 4/24/2018</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a></p>	<p>ASTM E608-2019, Specification for Mineral-Insulated, Metal-Sheathed Base Metal Thermocouples <i>Approved: 5/21/2019</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a></p>	<p>ASTM E691-2015, Practice for Conducting an Interlaboratory Study to Determine the Precision of a Test Method <i>Approved: 10/20/2015</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a></p>
<p>ASTM E456-2013a (R2017), Terminology Relating to Quality and Statistics <i>Approved: 10/24/2017</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a></p>	<p>ASTM E648-2015, Test Method for Critical Radiant Flux of Floor-Covering Systems Using a Radiant Heat Energy Source <i>Approved: 7/28/2015</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a></p>	<p>ASTM E691-2016, Practice for Conducting an Interlaboratory Study to Determine the Precision of a Test Method <i>Approved: 10/18/2016</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a></p>
<p>ASTM E535-2014, Practice for Preparation of Fire-Test-Response Standards <i>Approved: 5/1/2014</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a></p>	<p>ASTM E648-2017, Test Method for Critical Radiant Flux of Floor-Covering Systems Using a Radiant Heat Energy Source <i>Approved: 4/28/2017</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a></p>	<p>ASTM E691-2018, Practice for Conducting an Interlaboratory Study to Determine the Precision of a Test Method <i>Approved: 4/24/2018</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a></p>
<p>ASTM E535-2019, Practice for Preparation of Fire-Test-Response Standards <i>Approved: 7/23/2019</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a></p>	<p>ASTM E648-2017a, Test Method for Critical Radiant Flux of Floor-Covering Systems Using a Radiant Heat Energy Source <i>Approved: 12/26/2017</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a></p>	<p>ASTM E696-2017 (R2018), Specification for Tungsten-Rhenium Alloy Thermocouple Wire <i>Approved: 11/20/2018</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a></p>
<p>ASTM E541-2010, Specification for Agencies Engaged in System Analysis and Compliance Assurance for Manufactured Building <i>Approved: 5/25/2010</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a></p>	<p>ASTM E648-2019, Test Method for Critical Radiant Flux of Floor-Covering Systems Using a Radiant Heat Energy Source <i>Approved: 7/23/2019</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a></p>	<p>ASTM E696-2017, Specification for Tungsten-Rhenium Alloy Thermocouple Wire <i>Approved: 12/26/2017</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a></p>
<p>ASTM E574-2017, Specification for Duplex, Base Metal Thermocouple Wire With Glass Fiber or Silica Fiber Insulation <i>Approved: 12/26/2017</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a></p>	<p>ASTM E662-2015, Test Method for Specific Optical Density of Smoke Generated by Solid Materials <i>Approved: 11/17/2015</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a></p>	<p>ASTM E699-2016, Practice for Evaluation of Agencies Involved in Testing, Quality Assurance, and Evaluating of Building Components <i>Approved: 8/1/2016</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a></p>
<p>ASTM E574-2019, Specification for Duplex, Base Metal Thermocouple Wire With Glass Fiber or Silica Fiber Insulation <i>Approved: 5/21/2019</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a></p>	<p>ASTM E662-2015a, Test Method for Specific Optical Density of Smoke Generated by Solid Materials <i>Approved: 4/21/2015</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a></p>	<p>ASTM E780-2017, Test Method for Measuring the Insulation Resistance of Mineral-Insulated, Metal-Sheathed Thermocouples and Mineral-Insulated, Metal-Sheathed Cable at Room Temperature <i>Approved: 12/26/2017</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a></p>
<p>ASTM E585-2018, Specification for Compacted Mineral-Insulated, Metal-Sheathed, Base Metal Thermocouple Cable <i>Approved: 6/1/2018</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a></p>	<p>ASTM E662-2017, Test Method for Specific Optical Density of Smoke Generated by Solid Materials <i>Approved: 2/1/2017</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a></p>	<p>ASTM E8-2015, Test Methods for Tension Testing of Metallic Materials <i>Approved: 2/1/2015</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a></p>

<p>ASTM E8-2015a, Test Methods for Tension Testing of Metallic Materials Approved: 5/26/2015 cleonard@astm.org</p>	<p>ASTM E84-2018, Test Method for Surface Burning Characteristics of Building Materials Approved: 7/1/2018 cleonard@astm.org</p>	<p>ASTM F1006-1997 (R2014), Specification for Entrainment Separators for Use in Marine Piping Applications Approved: 11/25/2014 cleonard@astm.org</p>
<p>ASTM E8-2016, Test Methods for Tension Testing of Metallic Materials Approved: 7/15/2016 cleonard@astm.org</p>	<p>ASTM E84-2018, Test Method for Surface Burning Characteristics of Building Materials Approved: 10/1/2018 cleonard@astm.org</p>	<p>ASTM F1006-1997 (R2018), Specification for Entrainment Separators for Use in Marine Piping Applications Approved: 9/1/2018 cleonard@astm.org</p>
<p>ASTM E8-2016a, Test Methods for Tension Testing of Metallic Materials Approved: 8/1/2016 cleonard@astm.org</p>	<p>ASTM E84-2019, Test Method for Surface Burning Characteristics of Building Materials Approved: 3/1/2019 cleonard@astm.org</p>	<p>ASTM F1007-2018, Specification for Pipeline Expansion Joints of the Packed Slip Type for Marine Application Approved: 5/22/2018 cleonard@astm.org</p>
<p>ASTM E800-2014, Guide for Measurement of Gases Present or Generated During Fires Approved: 11/25/2014 cleonard@astm.org</p>	<p>ASTM E84-2019, Test Method for Surface Burning Characteristics of Building Materials Approved: 4/15/2019 cleonard@astm.org</p>	<p>ASTM F1014-2002 (R2012), Specification for Flashlights on Vessels Approved: 10/23/2012 cleonard@astm.org</p>
<p>ASTM E814-2013 (R2017), Test Method for Fire Tests of Penetration Firestop Systems Approved: 4/28/2017 cleonard@astm.org</p>	<p>ASTM E84-2019, Test Method for Surface Burning Characteristics of Building Materials Approved: 7/23/2019 cleonard@astm.org</p>	<p>ASTM F1015-2003 (R2017), Test Method for Relative Abrasiveness of Synthetic Turf Playing Surfaces Approved: 12/26/2017 cleonard@astm.org</p>
<p>ASTM E839-2017, Test Methods for Sheathed Thermocouples and Sheathed Thermocouple Cable Approved: 12/26/2017 cleonard@astm.org</p>	<p>BSR/ASTM E84-2016, Test Method for Surface Burning Characteristics of Building Materials Approved: 7/1/2016 cleonard@astm.org</p>	<p>ASTM F1018-87A (R2017), Specification for Steel Emergency Gear Stowage Locker Approved: 1/1/2017 cleonard@astm.org</p>
<p>ASTM E84-2015, Test Method for Surface Burning Characteristics of Building Materials Approved: 2/1/2015 cleonard@astm.org</p>	<p>ASTM E906/E906M-2017, Test Method for Heat and Visible Smoke Release Rates for Materials and Products Using a Thermopile Method Approved: 8/1/2017 cleonard@astm.org</p>	<p>ASTM F1019M-2001 (R2018), Specification for Steel Deck Gear Stowage Box [Metric] Approved: 4/24/2018 cleonard@astm.org</p>
<p>ASTM E84-2015, Test Method for Surface Burning Characteristics of Building Materials Approved: 4/21/2015 cleonard@astm.org</p>	<p>ASTM E927-2019, Specification for Solar Simulation for Photovoltaic Testing Approved: 2/1/2019 cleonard@astm.org</p>	<p>ASTM F1020-1986 (R2018), Specification for Line-Blind Valves for Marine Applications Approved: 3/20/2018 cleonard@astm.org</p>
<p>ASTM E84-2015a, Test Method for Surface Burning Characteristics of Building Materials Approved: 12/15/2015 cleonard@astm.org</p>	<p>ASTM E970-2017, Test Method for Critical Radiant Flux of Exposed Attic Floor Insulation Using a Radiant Heat Energy Source Approved: 7/1/2017 cleonard@astm.org</p>	<p>ASTM F1021-2019, Specification for Feeders, Detergent, Rinse Agent, and Sanitizing Agent for Commercial Dishwashing and Glasswashing Machines Approved: 12/18/2018 cleonard@astm.org</p>
<p>ASTM E84-2016, Test Method for Surface Burning Characteristics of Building Materials Approved: 7/1/2016 cleonard@astm.org</p>	<p>ASTM F1000-2013 (R2019), Practice for Piping System Drawing Symbols Approved: 5/21/2019 cleonard@astm.org</p>	<p>ASTM F1023-2012 (R2018), Specification for Dispensers, Powdered Iced Tea Approved: 10/23/2018 cleonard@astm.org</p>
<p>ASTM E84-2017, Test Method for Surface Burning Characteristics of Building Materials Approved: 8/1/2017 cleonard@astm.org</p>	<p>ASTM F1003-2019, Specification for Searchlights on Motor Lifeboats Approved: 3/26/2019 cleonard@astm.org</p>	<p>ASTM F1025-2019, Guide for Selection and Use of Full-Encirclement-Type Band Clamps for Reinforcement or Repair of Punctures or Holes in Polyethylene Gas Pressure Pipe Approved: 8/20/2019 cleonard@astm.org</p>
<p>ASTM E84-2017a, Test Method for Surface Burning Characteristics of Building Materials Approved: 11/21/2017 cleonard@astm.org</p>	<p>ASTM F1005-1997 (R2013), Practice for HVAC Duct Shapes; Identification and Description of Design Configuration Approved: 10/29/2013 cleonard@astm.org</p>	
<p>ASTM E84-2018, Test Method for Surface Burning Characteristics of Building Materials Approved: 3/1/2017 cleonard@astm.org</p>		

ASTM F1030-1986 (R2014), Practice for Selection of Valve Operators <i>Approved: 11/25/2014</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a>	ASTM F1068-1990 (R2018), Specification for Doors, Double, Gastight/Airtight, Individually Dogged, for Marine Use <i>Approved: 4/24/2018</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a>	ASTM F1085-2014, Specification for Mattress and Box Springs for Use in Berths in Marine Vessels <i>Approved: 11/25/2014</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a>
ASTM F1030-1986 (R2018), Practice for Selection of Valve Operators <i>Approved: 9/1/2018</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a>	ASTM F1069-2019, Specification for Doors, Watertight, Gastight/Airtight and Weathertight, Individually Dogged, for Marine Use <i>Approved: 3/26/2019</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a>	ASTM F1092-2014, Specification for Fiberglass (GRP) Pultruded Open-Weather Storm and Guard, Square Railing Systems <i>Approved: 11/25/2014</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a>
ASTM F1038-1999 (R2016), Test Method for Motor Life Evaluation of a Canister, Hand-held, Stick, and Utility Type Vacuum Cleaner Without a Driven Agitator <i>Approved: 10/18/2016</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a>	ASTM F1070-2019, Specification for Doors, Non-Tight, for Marine Use <i>Approved: 3/26/2019</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a>	ASTM F1097-2017, Specification for Mortar, Refractory (High-Temperature, Air-Setting) <i>Approved: 12/26/2017</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a>
ASTM F1041-2017, Guide for Squeeze-Off of Polyolefin Gas Pressure Pipe and Tubing <i>Approved: 5/30/2017</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a>	ASTM F1071-1994 (R2018), Specification for Expanded-Metal Bulkhead Panels <i>Approved: 4/24/2018</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a>	ASTM F1098-2010 (R2015), Specification for Envelope Dimensions for Butterfly Valves--NPS 2 to 24 <i>Approved: 5/26/2015</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a>
ASTM F1045-2015, Performance Specification for Ice Hockey Helmets <i>Approved: 4/21/2015</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a>	ASTM F1072-1994 (R2018), Specification for Expanded-Metal Doors <i>Approved: 4/24/2018</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a>	ASTM F1099M-2018, Specification for Rat Guards, Ships (Metric) <i>Approved: 4/24/2018</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a>
ASTM F1045-2016, Performance Specification for Ice Hockey Helmets <i>Approved: 10/18/2016</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a>	ASTM F1073-2019, Specification for Door Fittings, for Watertight /Gastight /Airtight, Weathertight, and Non-Tight Doors, for Marine Use <i>Approved: 3/26/2019</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a>	ASTM F1106-87 (R2018), Specification for Warping Heads, Rope Handling (Gypsy Head, Capstan Head) <i>Approved: 4/24/2018</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a>
ASTM F1047-2017, Specification for Frying and Braising Pans, Tilting Type <i>Approved: 12/26/2017</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a>	ASTM F1074-1997 (R2018), Specification for Cleats, Welded Horn Type <i>Approved: 4/24/2018</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a>	ASTM F1114-2016, Specification for Heat Sanitizing Commercial Pot, Pan, and Utensil Stationary Rack Type Water-Driven Rotary Spray <i>Approved: 12/20/2016</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a>
ASTM F1055-2016, Specification for Electrofusion Type Polyethylene Fittings for Outside Diameter Controlled Polyethylene and Crosslinked Polyethylene (PEX) Pipe and Tubing <i>Approved: 8/23/2016</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a>	ASTM F1075-1997 (R2014), Specification for Dehumidifier, Shipboard, Mechanically Refrigerated, Self-Contained <i>Approved: 11/25/2014</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a>	ASTM F1120-2010 (R2015), Specification for Circular Metallic Bellows Type Expansion Joints for Piping Applications <i>Approved: 5/26/2015</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a>
ASTM F1055-2016a, Specification for Electrofusion Type Polyethylene Fittings for Outside Diameter Controlled Polyethylene and Crosslinked Polyethylene (PEX) Pipe and Tubing <i>Approved: 11/22/2016</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a>	ASTM F1075-1997 (R2018), Specification for Dehumidifier, Shipboard, Mechanically Refrigerated, Self-Contained <i>Approved: 9/1/2018</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a>	ASTM F1121-2010 (R2015), Specification for International Shore Connections for Marine Fire Applications <i>Approved: 5/26/2015</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a>
ASTM F1056-2017, Specification for Socket Fusion Tools for Use in Socket Fusion Joining Polyethylene Pipe or Tubing and Fittings <i>Approved: 5/31/2017</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a>	ASTM F1076-2010 (R2015), Practice for Expanded Welded and Silver Brazed Socket Joints for Pipe and Tube <i>Approved: 5/26/2015</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a>	ASTM F1122-2010 (R2015), Specification for Quick Disconnect Couplings (6 in. NPS and Smaller) <i>Approved: 5/26/2015</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a>
ASTM F1056-2018, Specification for Socket Fusion Tools for Use in Socket Fusion Joining Polyethylene Pipe or Tubing and Fittings <i>Approved: 2/20/2018</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a>	ASTM F1081-2009 (R2015), Specification for Competition Wrestling Mats <i>Approved: 4/21/2015</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a>	ASTM F1123-2010 (R2015), Specification for Non-Metallic Expansion Joints <i>Approved: 5/26/2015</i> <a href="mailto:cleonard@astm.org">cleonard@astm.org</a>

ASTM F1126-2012 (R2017), Specification for Food Cutters (Electric)

Approved: 12/26/2017

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1130-2000 (R2014), Practice for Inspecting the Coating System of a Ship

Approved: 1/21/2014

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1134-2015 (R2019), Specification for Insulation Resistance Monitor for Shipboard Electrical Motors and Generators

Approved: 7/23/2019

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1134-2015, Specification for Insulation Resistance Monitor for Shipboard Electrical Motors and Generators

Approved: 5/26/2015

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1138-1998 (R2014), Specification for Spray Shields for Mechanical Joints

Approved: 2/1/2014

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1139-2010 (R2015), Specification for Steam Traps and Drains

Approved: 5/26/2015

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1142-1990 (R2012), Specification for Manhole Cover Assembly, Bolted, Semi-Flush, Oiltight and Watertight

Approved: 6/26/2012

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1143-2019, Specification for Manhole Cover Assembly, Bolted, Raised, Oiltight and Watertight

Approved: 3/26/2019

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1144-2019, Specification for Manhole Cover Assembly, Bolted, Semi-Flush, Oiltight and Watertight, Hinged

Approved: 3/26/2019

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1145-1992 (R2017), Specification for Turnbuckles, Swaged, Welded, Forged

Approved: 12/26/2017

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1150-2016, Specification for Commercial Food Waste Pulper and Waterpress Assembly

Approved: 12/20/2016

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1155-2010 (R2015), Practice for Selection and Application of Piping System Materials

Approved: 5/26/2015

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1162-2018, Specification for Pole Vault Landing Systems

Approved: 4/24/2018

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1163-2015, Specification for Protective Headgear Used in Horse Sports and Horseback Riding

Approved: 10/20/2015

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1166-2007 (R2013), Practice for Human Engineering Design for Marine Systems, Equipment, and Facilities

Approved: 10/29/2013

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1172-2010 (R2015), Specification for Fuel Oil Meters of the Volumetric Positive Displacement Type

Approved: 5/26/2015

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1173-2001 (R2018), Specification for Thermosetting Resin Fiberglass Pipe Systems to Be Used for Marine Applications

Approved: 3/20/2018

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1178-2011 (R2015), Specification for Performance of Enameling System, Baking, Metal Joiner Work and Furniture

Approved: 10/20/2015

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1179-1997 (R2014), Practice for Inspection Procedure for Use of Anaerobic Thread Locking Compounds with Studs

Approved: 3/1/2014

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1182-2007 (R2013), Specification for Anodes, Sacrificial Zinc Alloy

Approved: 10/29/2013

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1196-2019, Specification for Sliding Watertight Door Assemblies

Approved: 3/26/2019

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1197-2019, Specification for Sliding Watertight Door Control Systems

Approved: 3/26/2019

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1198-1997 (R2018), Guide for Shipboard Fire Detection Systems

Approved: 10/1/2018

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1199-2010 (R2015), Specification for Cast (All Temperatures and Pressures) and Welded Pipe Line Strainers (150 psig and 150F Maximum)

Approved: 5/26/2015

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1200-1988 (R2016), Specification for Fabricated (Welded) Pipe Line Strainers (Above 150 psig and 150F)

Approved: 9/1/2016

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1201-1988 (R2016), Specification for Fluid Conditioner Fittings in Piping Applications above 0°F

Approved: 9/1/2016

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1202-2016, Specification for Washing Machines, Heat Sanitizing, Commercial, Pot, Pan, and Utensil Vertically Oscillating Arm Type

Approved: 12/20/2016

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1203-2016, Specification for Washing Machines--Pot, Pan, and Utensil, Heat Sanitizing, Commercial Rotary Conveyor Type

Approved: 12/20/2016

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1207M-2012 (R2018), Specification for Electrical Insulation Monitors for Monitoring Ground Resistance in Active Electrical Systems [Metric]

Approved: 4/24/2018

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1217-2017, Specification for Cooker, Steam

Approved: 11/21/2017

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1237-2015, Specification for Commercial Dishwashing Machines, Multiple-Tank, Continuous Oval-Conveyor Type, Heat Sanitizing

Approved: 9/18/2015

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1244-2000 (R2018), Specification for Berths, Marine

Approved: 4/24/2018

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1245-1989 (R2012), Standard Specification for Faucets, Single And Double, Compression and Self-Closing Type, Shipboard  
*Approved: 5/22/2012*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1250-2018, Specification for Stationary Upright and Recumbent Exercise Bicycles and Upper Body Ergometers  
*Approved: 6/26/2018*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1270-1997 (R2013), Practice for Preparing and Locating Emergency Muster Lists  
*Approved: 10/29/2013*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1271-1990 (R2018), Specification for Spill Valves for Use in Marine Tank Liquid Overpressure Protections Applications  
*Approved: 3/20/2018*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1273-1997 (R2013), Specification for Tank Vest Flame Arresters  
*Approved: 10/29/2013*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1275-2014, Test Method for Performance of Griddles  
*Approved: 4/22/2014*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1281-2017, Specification for Crosslinked Polyethylene/Aluminum/Crosslinked Polyethylene (PEX-AL-PEX) Pressure Pipe  
*Approved: 8/22/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1282-2017, Specification for Polyethylene/Aluminum/Polyethylene (PE-AL-PE) Composite Pressure Pipe  
*Approved: 3/28/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1284-2009 (R2016), Test Method for Evaluating Carpet Embedded Dirt Removal Effectiveness of Residential Central Vacuum Cleaning Systems  
*Approved: 6/14/2016*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1290-2017, Practice for Electrofusion Joining Polyolefin Pipe and Fittings  
*Approved: 5/31/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1290-2019, Practice for Electrofusion Joining Polyolefin Pipe and Fittings  
*Approved: 1/22/2019*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1292-2017, Specification for Impact Attenuation of Surfacing Materials Within the Use Zone of Playground Equipment  
*Approved: 5/1/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1292-2017a, Specification for Impact Attenuation of Surfacing Materials Within the Use Zone of Playground Equipment  
*Approved: 10/1/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1292-2018, Specification for Impact Attenuation of Surfacing Materials Within the Use Zone of Playground Equipment  
*Approved: 12/1/2018*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1297-1999 (R2018), Guide for Location and Instruction Symbols for Evacuation and Lifesaving Equipment  
*Approved: 10/1/2018*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1298-1990 (R2018), Specification for Flexible, Expansion-Type Ball Joints for Marine Applications  
*Approved: 3/20/2018*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1309-1998 (R2018), Practice for Installation Procedures for Fitting Chocks to Marine Machinery Foundations  
*Approved: 4/24/2018*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1311-1990 (R2018), Specification for Large-Diameter Fabricated Carbon Steel Flanges  
*Approved: 3/20/2018*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1312-90 (R2013), Specification for Brick, Insulating, High Temperature, Fire Clay  
*Approved: 10/29/2013*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1321-2014, Guide for Conducting a Stability Test (Lightweight Survey and Inclining Experiment) to Determine the Light Ship Displacement and Centers of Gravity of a Vessel  
*Approved: 5/20/2014*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1322-2015, Guide for Selection of Shipboard Incinerators  
*Approved: 5/26/2015*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1323-2014, Specification for Shipboard Incinerators  
*Approved: 11/25/2014*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1326-2011 (R2016), Test Method for Measuring Maximum Dry Volume of Utility Vacuum Cleaners  
*Approved: 4/19/2016*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1330-1991 (R2018), Guide for Metallic Abrasive Blasting to Descale the Interior of Pipe  
*Approved: 3/20/2018*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1331-2017, Practice for Installation Procedures of Vinyl Deck Coverings on Portable Plates in Electrical and Electronic Spaces  
*Approved: 5/23/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1332-1999 (R2011), Practice for Use of SI (Metric) Units in Maritime Applications (Committee F25 Supplement to IEEE/ASTM SI 10)  
*Approved: 5/24/2011*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1333-1997 (R2013), Specification for Construction of Fire and Foam Station Cabinets  
*Approved: 10/29/2013*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1334-2018, Test Method for Determining A-Weighted Sound Power Level of Vacuum Cleaners  
*Approved: 10/23/2018*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1337-2010 (R2015), Practice for Human Systems Integration Program Requirements for Ships and Marine Systems, Equipment, and Facilities  
*Approved: 5/26/2015*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1338-1997 (R2013), Guide for Main Propulsion Medium Speed Marine Diesel Engines Covering Performance and Minimum Scope of Assembly  
*Approved: 10/29/2013*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1347-1991 (R2018), Specification for Manually Operated Fueling Hose Reels  
*Approved: 10/1/2018*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1348-1997 (R2013), Specification for Pneumatic Rotary Descaling Machines  
*Approved: 10/29/2013*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1352-2008 (R2013), GUIDE FOR FIXED BLADE BROADHEAD PERFORMANCE AND SAFETY STANDARDS

Approved: 05/21/2013

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1360-2017, Specification for Ovens, Microwave, Electric

Approved: 11/21/2017

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1361-2017, Test Method for Performance of Open Deep Fat Fryers

Approved: 11/21/2017

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1363-2007 (R2017), Guide for Reduction of Risk of Injury for Archery Overdraws

Approved: 12/26/2017

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1370-1992 (R2019), Specification for Pressure-Reducing Valves for Water Systems, Shipboard

Approved: 8/1/2019

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1371-2013 (R2019), Specification for Vegetable Peeling Machines, Electric

Approved: 12/18/2018

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1385-2006 (R2018), Practice for Platforms in Cargo Tanks

Approved: 4/24/2018

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1386-1997 (R2016), Guide for Construction of Sounding Tube and Striker Plate for Tank Sounding

Approved: 9/1/2016

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1387-1999 (R2012), Specification for Performance of Piping and Tubing Mechanically Attached Fittings

Approved: 5/22/2012

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1409-2016, Test Method for Straight Line Movement of Vacuum Cleaners While Cleaning Carpets

Approved: 11/22/2016

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1410-2011 (R2016), Test Method for Measuring Maximum Functional Wet Volume of Utility Vacuum Cleaners

Approved: 4/19/2016

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1411-2011 (R2018), Practice for Presenting Selected Information on Vacuum Cleaners for Consumer Use

Approved: 3/20/2018

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1412-2017, Specification for Polyolefin Pipe and Fittings for Corrosive Waste Drainage Systems

Approved: 5/30/2017

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1431-1992 (R2016), Specification for Water Trap for Diesel Exhaust

Approved: 9/1/2016

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1433-1997 (R2010), Specification for Mechanically Refrigerated Air Conditioner

Approved: 5/25/2010

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1435-2008 (R2013), SPECIFICATION FOR DESIGNATION OF THE BALANCE POINT LOCATION FOR ARCHERY ARROWS

Approved: 05/21/2013

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1436-2011 (R2017), Guide for Center Serving Diameter Dimensions for Archery Bow Strings

Approved: 12/26/2017

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1446-2015, Test Methods for Equipment and Procedures Used in Evaluating the Performance Characteristics of Protective Headgear

Approved: 6/23/2015

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1446-2015a, Test Methods for Equipment and Procedures Used in Evaluating the Performance Characteristics of Protective Headgear

Approved: 11/1/2015

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1447-2018, Specification for Helmets Used in Recreational Bicycling or Roller Skating

Approved: 6/26/2018

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1455-2017, Guide for Selection of Structural Details for Ship Construction

Approved: 5/23/2017

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1476-2007 (R2013), Specification for Performance of Gasketed Mechanical Couplings for Use in Piping Applications

Approved: 10/29/2013

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1483-2017, Specification for Oriented Poly(Vinyl Chloride), PVCO, Pressure Pipe

Approved: 8/1/2017

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1484-2015, Test Methods for Performance of Steam Cookers

Approved: 11/17/2015

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1484-2018, Test Methods for Performance of Steam Cookers

Approved: 3/20/2018

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1488-2017 (R2019), Specification for Coextruded Composite Pipe

Approved: 3/5/2019

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1488-2017, Specification for Coextruded Composite Pipe

Approved: 5/31/2017

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1492-2008 (R2014), Specification for Helmets Used in Skateboarding and Trick Roller Skating

Approved: 12/23/2014

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1492-2015, Specification for Helmets Used in Skateboarding and Trick Roller Skating

Approved: 7/1/2015

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1495-2014, Specification for Combination Oven Electric or Gas Fired

Approved: 1/21/2014

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1495-2014a, Specification for Combination Oven Electric or Gas Fired

Approved: 6/17/2014

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1496-2013 (R2019), Test Method for Performance of Convection Ovens

Approved: 5/21/2019

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1498-2018, Specification for Taper Pipe Threads 60 for Thermoplastic Pipe and Fittings

Approved: 12/18/2018

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1499-2017, Specification for Coextruded Composite Drain, Waste, and Vent Pipe (DWV)

Approved: 5/30/2017

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1499-2017a, Specification for Coextruded Composite Drain, Waste, and Vent Pipe (DWV)  
*Approved: 11/21/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1507-2000 (R2017), Specification for Surge Suppressors for Shipboard Use  
*Approved: 8/1/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1508-1997 (R2016), Specification for Angle Style, Pressure Relief Valves for Steam, Gas, and Liquid Services  
*Approved: 9/1/2016*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1510-2007 (R2013), Specification for Rotary Positive Displacement Pumps for Ships Use  
*Approved: 10/29/2013*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1511-2014, Specification for Mechanical Seals for Shipboard Pump Applications  
*Approved: 11/25/2014*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1511-2016, Specification for Mechanical Seals for Shipboard Pump Applications  
*Approved: 11/22/2016*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1511-2018, Specification for Mechanical Seals for Shipboard Pump Applications  
*Approved: 4/24/2018*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1521-2012 (R2018), Test Methods for Performance of Range Tops  
*Approved: 10/23/2018*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1544-2011 (R2017), Specification for Determining the Rating Velocities of a Compound Archery Bow  
*Approved: 12/26/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1545-2017, Specification for Plastic-Lined Ferrous Metal Pipe, Fittings, and Flanges  
*Approved: 5/31/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1546-1996 (R2018), Specification for Fire Hose Nozzles  
*Approved: 10/1/2018*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1548-2001 (R2018), Specification for Performance of Fittings for Use with Gasketed Mechanical Couplings Used in Piping Applications  
*Approved: 3/20/2018*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1551-2009 (R2017), Test Methods for Comprehensive Characterization of Synthetic Turf Playing Surfaces and Materials  
*Approved: 12/26/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1563-2017 (R2019), Specification for Tools to Squeeze-off Polyethylene (PE) Gas Pipe or Tubing  
*Approved: 8/20/2019*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1565-2000 (R2019), Specification for Pressure-Reducing Valves for Steam Service  
*Approved: 5/21/2019*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1567-1994 (R2019), Specification for Fabricated or Cast Automatic Self-Cleaning, Fuel Oil and Lubricating Oil Strainers  
*Approved: 5/21/2019*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1568-2012 (R2017), Specification for Food Processors, Electric  
*Approved: 12/26/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1587-2013 (R2018), Specification for Head and Face Protective Equipment for Ice Hockey Goaltenders  
*Approved: 4/24/2018*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1601-2011 (R2016), Test Method for Motor Life Evaluation of an Electric Motorized Nozzle for Central Vacuum Cleaning Systems  
*Approved: 10/18/2016*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1602-2012 (R2017), Specification for Kettles, Steam-Jacketed, 20 to 200 gal (75.7 to 757 L), Floor or Wall Mounted, Direct Steam, Gas and Electric Heated  
*Approved: 11/21/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1603-2017, Specification for Kettles, Steam-Jacketed, 32 oz to 20 gal (1 to 75.7 L), Tilting, Table Mounted, Direct Steam, Gas and Electric Heated  
*Approved: 11/21/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1604-2015, Specification for Freezers, Ice Cream, Soft Serve, Shake  
*Approved: 11/17/2015*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1605-2014 (R2019), Test Method for Performance of Double-Sided Griddles  
*Approved: 5/21/2019*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1625-2000 (R2018), Specification and Test Method for Rear-Mounted Bicycle Child Carriers  
*Approved: 4/24/2018*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1632-2003 (R2018), Test Method for Particle Size Analysis and Sand Shape Grading of Golf Course Putting Green and Sports Field Rootzone Mixes  
*Approved: 10/23/2018*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1647-2011 (R2018), Test Methods for Organic Matter Content of Athletic Field Rootzone Mixes  
*Approved: 10/23/2018*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1648-1995 (R2013), TEST METHODS FOR ARCHERY BOWSTRING COMPONENT--SERVING STRING MATERIAL  
*Approved: 05/21/2013*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1668-2016, Guide for Construction Procedures for Buried Plastic Pipe  
*Approved: 7/26/2016*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1669M-2012 (R2018), Specification for Insulation Monitors for Shipboard Electrical Systems [Metric]  
*Approved: 4/24/2018*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1673-2017, Specification for Polyvinylidene Fluoride (PVDF) Corrosive Waste Drainage Systems  
*Approved: 5/30/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1674-2017, Test Method for Joint Restraint Products for Use with PVC Pipe  
*Approved: 5/31/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1674-2018, Test Method for Joint Restraint Products for Use with PVC Pipe  
*Approved: 11/20/2018*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1685-2000 (R2019), Specification for Pressure-Reducing Manifolds for Air or Nitrogen Systems

Approved: 5/21/2019

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1692-2011 (R2016), Test Method for Life Evaluation of a Turbine-Powered Nozzle for Household Central Vacuum Cleaning Systems

Approved: 10/18/2016

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1695-2008 (R2015), Test Method for Performance of Underfired Broilers

Approved: 3/24/2015

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1696-2015, Test Method for Energy Performance of Single-Rack, Door-Type Commercial Dishwashing Machines

Approved: 8/24/2015

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1696-2018, Test Method for Energy Performance of Stationary-Rack, Door-Type Commercial Dishwashing Machines

Approved: 3/20/2018

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1702-2010 (R2018), Test Method for Measuring Impact-Attenuation Characteristics of Natural Playing Surface Systems Using a Lightweight Portable Apparatus

Approved: 12/1/2018

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1703-2013, Guide for Ice Hockey Playing Facilities

Approved: 1/1/2013

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1704-2012 (R2017), Test Method for Capture and Containment Performance of Commercial Kitchen Exhaust Ventilation Systems

Approved: 4/28/2017

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1716-2008 (R2015), Guide for Transition and Performance of Marine Software Systems Maintenance

Approved: 5/26/2015

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1718-2001 (R2019), Specification for Rotary Positive Displacement Distillate Fuel Pumps

Approved: 5/21/2019

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1720-2014, Test Method for Measuring Thermal Insulation of Sleeping Bags Using a Heated Manikin

Approved: 11/25/2014

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1720-2017, Test Method for Measuring Thermal Insulation of Sleeping Bags Using a Heated Manikin

Approved: 9/19/2017

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1733-2018, Specification for Butt Heat Fusion Polyamide(PA) Plastic Fitting for Polyamide(PA) Plastic Pipe and Tubing

Approved: 12/18/2018

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1734-2019, Practice for Qualification of a Combination of Squeeze Tool, Pipe, and Squeeze-Off Procedures to Avoid Long-Term Damage in Polyethylene (PE) Gas Pipe

Approved: 1/22/2019

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1749-2015, Specification for Fitness Equipment and Fitness Facility Safety Signage and Labels

Approved: 4/21/2015

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1750-2011 (R2015), Specification for Paintball Marker Threaded-Propellant Source Interface

Approved: 4/21/2015

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1750-2016, Specification for Paintball Marker Threaded-Propellant Source Interface

Approved: 4/19/2016

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1752-1996 (R2014), Test Method for Archery Bow Component--Cord Material

Approved: 9/23/2014

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1753-1996 (R2014), Specification for Classification and Marking of Single-Lens Scopes for Use with Archery Bows

Approved: 9/23/2014

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1755M-1996 (R2018), Specification for Solid State Bargraph Meters for Shipboard Use [Metric]

Approved: 10/1/2018

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1757-2008 (R2015), Guide for Digital Communication Protocols for Computerized Systems

Approved: 5/26/2015

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1759-2017 (R2018), Practice for Design of High-Density Polyethylene (HDPE) Manholes for Subsurface Applications

Approved: 2/20/2018

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1759-2017, Practice for Design of High-Density Polyethylene (HDPE) Manholes for Subsurface Applications

Approved: 5/30/2017

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1760-2017, Specification for Coextruded Poly(Vinyl Chloride) (PVC) Non-Pressure Plastic Pipe Having Reprocessed-Recycled Content

Approved: 5/16/2017

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1776-2014, Specification for Eye Protective Devices for Paintball Sports

Approved: 9/23/2014

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1776-2016, Specification for Eye Protective Devices for Paintball Sports

Approved: 11/22/2016

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1776-2018, Specification for Eye Protective Devices for Paintball Sports

Approved: 7/1/2018

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1777-2012, Practice for Paintball Field Operation

Approved: 1/1/2012

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1784-2008 (R2015), Test Method for Performance of a Pasta Cooker

Approved: 3/24/2015

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1785-2008 (R2015), Test Method for Performance of Steam Kettles

Approved: 3/24/2015

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1786-1997 (R2016), Test Method for Performance of Braising Pans

Approved: 10/18/2016

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1787-2008 (R2015), Test Method for Performance of Rotisserie Ovens

Approved: 3/24/2015

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1791-2000 (R2019), Specification for Filters Used in Air or Nitrogen Systems

Approved: 5/21/2019

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1792-1997 (R2016), Specification for Special Requirements for Valves Used in Gaseous Oxygen Service

Approved: 9/1/2016

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1793-1997 (R2016), Specification for Automatic Shut-Off Valves (Also Known as Excess Flow Valves, EFV) for Air or Nitrogen Service

Approved: 9/1/2016

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1794-1997 (R2016), Specification for Hand-Operated, Globe-Style Valves for Gas (Except Oxygen Gas) and Hydraulic Systems

Approved: 9/1/2016

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1795-2000 (R2019), Specification for Pressure-Reducing Valves for Air or Nitrogen Systems

Approved: 5/21/2019

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1799-2009 (R2015), Guide for Shipboard Generated Waste Management Audits

Approved: 12/22/2015

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1804-2016, Practice for Determining Allowable Tensile Load for Polyethylene (PE) Gas Pipe During Pull-In Installation

Approved: 11/22/2016

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1807-2017, Specification for Metal Insert Fittings Utilizing a Copper Crimp Ring for SDR9 Cross-linked Polyethylene (PEX) Tubing and SDR9 Polyethylene of Raised Temperature (PE-RT) Tubing

Approved: 3/28/2017

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1807-2018, Specification for Metal Insert Fittings Utilizing a Copper Crimp Ring for SDR9 Cross-linked Polyethylene (PEX) Tubing and SDR9 Polyethylene of Raised Temperature (PE-RT) Tubing

Approved: 9/1/2018

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1807-2018, Specification for Metal Insert Fittings Utilizing a Copper Crimp Ring for SDR9 Cross-linked Polyethylene (PEX) Tubing and SDR9 Polyethylene of Raised Temperature (PE-RT) Tubing

Approved: 11/20/2018

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1807-2019, Specification for Metal Insert Fittings Utilizing a Copper Crimp Ring, or Alternate Stainless Steel Clamps, for SDR9 Cross-linked Polyethylene (PEX) Tubing and SDR9 Polyethylene of Raised Temperature (PE-RT) Tubing

Approved: 8/20/2019

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1808-2003 (R2013), Guide for Weight Control Technical Requirements for Surface Ships

Approved: 10/29/2013

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1815-2011 (R2018), Test Methods for Saturated Hydraulic Conductivity, Water Retention, Porosity, and Bulk Density of Athletic Field Rootzones

Approved: 10/23/2018

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1817-2017, Test Method for Performance of Conveyor Ovens

Approved: 4/28/2017

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1827-2013 (R2019), Terminology Relating to Food Service Equipment

Approved: 7/23/2019

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1832-2007 (R2017), Test Method for Determining the Force-Draw and Let-Down Curves for Archery Bows

Approved: 12/26/2017

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1833-1997 (R2017), Test Method for Comparison of Rearfoot Motion Control Properties of Running Shoes

Approved: 9/19/2017

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1835-1997 (R2018), Guide for Cable Splicing Installations

Approved: 10/1/2018

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1836M-2015 (R2019), Specification for Stuffing Tubes, Nylon, and Packing Assemblies (Metric)

Approved: 5/21/2019

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1836M-2015, Specification for Stuffing Tubes, Nylon, and Packing Assemblies (Metric)

Approved: 12/1/2015

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1837M-1997 (R2018), Specification for Heat-Shrink Cable Entry Seals (Metric)

Approved: 10/1/2018

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1849-2018, Specification for Helmets Used in Short Track Speed Ice Skating (Not to Include Hockey)

Approved: 3/1/2018

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1853-2011 (R2018), Test Method for Measuring Sleeping Bag Packing Volume

Approved: 10/23/2018

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1866-2017 (R2017), Specification for Poly (Vinyl Chloride) (PVC) Plastic Schedule 40 Drainage and DWV Fabricated Fittings

Approved: 8/22/2017

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1866-2017, Specification for Poly(Vinyl Chloride) (PVC) Plastic Schedule 40 Drainage and DWV Fabricated Fittings

Approved: 5/30/2017

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1866-2018, Specification for Poly (Vinyl Chloride) (PVC) Plastic Schedule 40 Drainage and DWV Fabricated Fittings

Approved: 2/20/2018

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1878-2009 (R2015), Guide for Escort Vessel Evaluation and Selection

Approved: 5/26/2015

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1880-2009 (R2013), Test Method for the Determination of Percent of Let-Off for Archery Bows

Approved: 11/26/2013

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1882-2006 (R2014), Specification for Residential Basketball Systems

Approved: 11/25/2014

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1882-2015, Specification for Residential Basketball Systems

Approved: 6/23/2015

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1883-2003 (R2013), Practice For Selection of Wire and Cable Size in AWG or Metric Units

Approved: 06/18/2013

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1887-2014 (R2019), Test Method for Measuring the Coefficient of Restitution (COR) of Baseballs and Softballs

Approved: 4/30/2019

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1888-2014 (R2016), Test Method for Compression-Displacement of Baseballs and Softballs  
*Approved: 7/26/2016*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1889-2005 (R2014), Guide for Straightness Measurement of Arrow Shafts  
*Approved: 9/23/2014*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1890-2017, Test Method for Measuring Softball Bat Performance Factor  
*Approved: 8/15/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1898-2008 (R2015), Specification for Helmets for Non-Motorized Wheeled Vehicle Used by Infants and Toddlers  
*Approved: 1/1/2015*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1898-2015, Specification for Helmets for Non-Motorized Wheeled Vehicle Used by Infants and Toddlers  
*Approved: 4/21/2015*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1899-2014, Specification for Food Waste Pulper Without Waterpress Assembly  
*Approved: 11/25/2014*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1900-1998 (R2017), Test Method for Water Resistance of Footwear Using a Walking Step Simulator  
*Approved: 9/19/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1901-2016, Specification for Polyethylene (PE) Pipe and Fittings for Roof Drain Systems  
*Approved: 8/23/2016*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1919-2014, Specification for Griddles, Single and Double Sided, Self-heating, Counter or Stand Mounted Gas and Electric Fired  
*Approved: 4/22/2014*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1920-2015, Test Method for Performance of Rack Conveyor, Commercial Dishwashing Machines  
*Approved: 8/24/2015*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1924-2017, Specification for Plastic Mechanical Fittings for Use on Outside Diameter Controlled Polyethylene Gas Distribution Pipe and Tubing  
*Approved: 5/30/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1924-2019, Specification for Plastic Mechanical Fittings for Use on Outside Diameter Controlled Polyethylene Gas Distribution Pipe and Tubing  
*Approved: 8/20/2019*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1932-1998 (R2018), Test Method for Measuring Sleeping Bag Loft  
*Approved: 10/23/2018*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1933-1998 (R2018), Specification for Illustrating the Footprint of a Backpacking or Mountaineering Tent  
*Approved: 10/23/2018*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1934-1998 (R2018), Test Method for Weighing a Backpacking or Mountaineering Tent  
*Approved: 10/23/2018*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1935-2001 (R2018), Test Method for Measuring the Headroom of a Backpacking or Mountaineering Tent  
*Approved: 10/23/2018*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1936-2010 (R2015), Specification for Impact Attenuation of Turf Playing Systems as Measured in the Field  
*Approved: 12/22/2015*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1936-2019, Specification for Impact Attenuation of Turf Playing Systems as Measured in the Field  
*Approved: 7/1/2019*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1937-2005 (R2017), Specification for Body Protectors Used in Horse Sports and Horseback Riding  
*Approved: 5/15/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1948-2017, Specification for Metallic Mechanical Fittings for Use on Outside Diameter Controlled Thermoplastic Gas Distribution Pipe and Tubing  
*Approved: 5/30/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1951-2014, Specification for Determination of Accessibility of Surface Systems Under and Around Playground Equipment  
*Approved: 6/1/2014*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1952-2015, Specification for Helmets Used for Downhill Mountain Bicycle Racing  
*Approved: 5/15/2015*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1953-2010 (R2018), Guide for Construction and Maintenance of Grass Tennis Courts  
*Approved: 4/24/2018*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1955-2015, Test Method for Flammability of Sleeping Bags  
*Approved: 4/21/2015*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1960-2017, Specification for Cold Expansion Fittings with PEX Reinforcing Rings for Use with Cross-Linked Polyethylene (PEX) Tubing  
*Approved: 5/31/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1960-2018, Specification for Cold Expansion Fittings with PEX Reinforcing Rings for Use with Cross-linked Polyethylene (PEX) Tubing  
*Approved: 10/3/2018*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1960-2018, Specification for Cold Expansion Fittings with PEX Reinforcing Rings for Use with Cross-linked Polyethylene (PEX) Tubing  
*Approved: 11/20/2018*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1960-2019, Specification for Cold Expansion Fittings with PEX Reinforcing Rings for Use with Cross-linked Polyethylene (PEX) and Polyethylene of Raised Temperature (PE-RT) Tubing  
*Approved: 8/20/2019*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1963-2005 (R2017), Specification for Deep-Fat Fryers, Gas or Electric, Open  
*Approved: 11/21/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1964-2011 (R2019), Test Method for Performance of Pressure Fryers  
*Approved: 5/21/2019*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1965-2017, Test Method for Performance of Deck Ovens  
*Approved: 6/20/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1966-2012 (R2017), Specification for Dough Divider and Rounding Machines  
*Approved: 12/26/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1970-2017, Specification for Special Engineered Fittings, Appurtenances or Valves for Use in Poly(Vinyl Chloride) (PVC) or Chlorinated Poly(Vinyl Chloride) (CPVC) Systems  
*Approved: 5/31/2017*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1970-2019, Specification for Special Engineered Fittings, Appurtenances or Valves for use in Poly (Vinyl Chloride) (PVC) or Chlorinated Poly (Vinyl Chloride) (CPVC) Systems  
*Approved: 4/30/2019*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1973-2017 (R2018), Specification for Factory Assembled Anodeless Risers and Transition Fittings in Polyethylene (PE) and Polyamide 11 (PA11) and Polyamide 12 (PA12) Fuel Gas Distribution Systems  
*Approved: 2/20/2018*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1973-2017, Specification for Factory Assembled Anodeless Risers and Transition Fittings in Polyethylene (PE) and Polyamide 11 (PA11) and Polyamide 12 (PA12) Fuel Gas Distribution Systems  
*Approved: 5/30/2017*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1974-2017, Specification for Metal Insert Fittings for Polyethylene/Aluminum/Polyethylene and Crosslinked Polyethylene/Aluminum/Crosslinked Polyethylene Composite Pressure Pipe  
*Approved: 5/31/2017*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1975-2015, Specification for Nonpowered Bicycle Trailers Designed for Human Passengers  
*Approved: 10/20/2015*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1976-2013, TEST METHOD FOR IMPACT ATTENUATION PROPERTIES OF ATHLETIC SHOES USING AN IMPACT TEST  
*Approved: 05/21/2013*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1977-2004 (R2017), Test Method for Determining Initial, Fractional, Filtration Efficiency of a Vacuum Cleaner System  
*Approved: 3/1/2017*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1979-2010 (R2014), Specification for Paintballs Used in the Sport of Paintball  
*Approved: 5/20/2014*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1985-1999 (R2019), Specification for Pneumatic-Operated, Globe-Style, Control Valves  
*Approved: 8/1/2019*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1986-2017, Specification for Multilayer Pipe Type 2, Compression Fittings, and Compression Joints for Hot and Cold Drinking-Water Systems  
*Approved: 5/31/2017*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1987-2017, Specification for Multilayer Pipe Type 2, Compression Fittings, and Compression Joints for Hydronic Heating Systems  
*Approved: 5/31/2017*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1991-2006 (R2016), Test Method for Performance of Chinese (Wok) Ranges  
*Approved: 10/18/2016*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F1994-2000 (R2019), Test Method for Shipboard Fixed Foam Firefighting Systems  
*Approved: 8/1/2019*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2001-2015, Guide for Vessel-Related Technical Information for Use in Developing an Electronic Database and Ship Safety Record  
*Approved: 5/26/2015*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2014-2000 (R2019), Specification for Non-Reinforced Extruded Tee Connections for Piping Applications  
*Approved: 5/21/2019*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2015-2000 (R2019), Specification for Lap Joint Flange Pipe End Applications  
*Approved: 5/21/2019*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2016-2000 (R2018), Practice for Establishing Shipbuilding Quality Requirements for Hull Structure, Outfitting, and Coatings  
*Approved: 10/1/2018*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2017-2015, Guide for Database Structure of Electronic Data Interchange Between Ship Owner and Shipyard for Contract Administration  
*Approved: 5/26/2015*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2021-2017, Guide for Design and Installation of Plastic Siphonic Roof Drainage Systems  
*Approved: 5/30/2017*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2021-2017a, Guide for Design and Installation of Plastic Siphonic Roof Drainage Systems  
*Approved: 11/21/2017*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2022-2001 (R2019), Test Method for Performance of Booster Heaters  
*Approved: 5/21/2019*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2030-2011 (R2016), Specification for Paintball Cylinder Burst Disk Assemblies  
*Approved: 4/19/2016*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2031-2005 (R2014), Test Method for Measurement of Arrow Shaft Static Spine (Stiffness)  
*Approved: 9/23/2014*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2032-2015, Specification for Helmets Used for BMX Cycling  
*Approved: 5/15/2015*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2039-2000 (R2018), Guide for Basic Elements of Shipboard Occupational Health and Safety Program  
*Approved: 10/1/2018*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2040-2018, Specification for Helmets Used for Recreational Snow Sports  
*Approved: 3/1/2018*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2043-2013 (R2018), Classification for Bicycle Usage  
*Approved: 11/20/2018*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2044-2005 (R2019), Specification for Liquid Level Indicating Equipment, Electrical  
*Approved: 3/26/2019*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2045-2000 (R2018), Specification for Indicators, Sight, Liquid Level, Direct and Indirect Reading, Tubular Glass/Plastic  
*Approved: 1/1/2018*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2046-2000 (R2017), Specification for Tachometers, Various  
*Approved: 8/1/2017*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2048-2009 (R2017), Practice for Reporting Slip Resistance Test Results

*Approved: 8/1/2017*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2060-2001 (R2018), Guide for Maintaining Cool Season Turfgrasses on Athletic Fields

*Approved: 10/23/2018*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2070-2001 (R2017), Specification for Transducers, Pressure and Differential, Pressure, Electrical and Fiber-Optic

*Approved: 8/1/2017*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2071-2001 (R2017), Specification for Switch, Position Proximity (Noncontact) or Limit (Mechanical Contact), Fiber-Optic

*Approved: 8/1/2017*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2075-2015, Specification for Engineered Wood Fiber for Use as a Playground Safety Surface Under and Around Playground Equipment

*Approved: 1/1/2015*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2080-2016, Specification for Cold-Expansion Fittings with Metal Compression-Sleeves for Crosslinked Polyethylene (PEX) Pipe

*Approved: 8/23/2016*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2080-2018, Specification for Cold-Expansion Fittings with Metal Compression-Sleeves for Crosslinked Polyethylene (PEX) Pipe and SDR9 Polyethylene of Raised Temperature (PE-RT) Pipe

*Approved: 11/20/2018*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2087-2013 (R2019), Specification for Packing, Fiberglass, Braided, Rope, and Wick

*Approved: 7/23/2019*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2092-2014, Specification for Convection Oven Gas or Electric

*Approved: 6/17/2014*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2093-2018, Test Method for Performance of Rack Ovens

*Approved: 3/20/2018*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2098-2017, Specification for Stainless Steel Clamps for Securing SDR9 Cross-Linked Polyethylene (PEX) Tubing to Metal Insert and Plastic Insert Fittings

*Approved: 5/31/2017*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2098-2018, Specification for Stainless Steel Clamps for Securing SDR9 Cross-linked Polyethylene (PEX) Tubing to Metal Insert and Plastic Insert Fittings

*Approved: 11/15/2018*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2105-2016, Test Method for Measuring Air Performance Characteristics of Vacuum Cleaner Motor/Fan Systems

*Approved: 10/18/2016*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2105-2017, Test Method for Measuring Air Performance Characteristics of Vacuum Cleaner Motor/Fan Systems

*Approved: 9/19/2017*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2105-2018, Test Method for Measuring Air Performance Characteristics of Vacuum Cleaner Motor/Fan Systems

*Approved: 10/23/2018*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2106-2018, Test Methods for Evaluating Design and Performance Characteristics of Motorized Treadmills

*Approved: 6/26/2018*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2107-2008 (R2015), Guide for Construction and Maintenance of Skinned Areas on Baseball and Softball Fields

*Approved: 12/1/2015*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2115-2018, Specification for Motorized Treadmills

*Approved: 6/26/2018*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2117-2010 (R2017), Test Method for Vertical Rebound Characteristics of Sports Surface/Ball Systems; Acoustical Measurement

*Approved: 4/28/2017*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2120-2006 (R2014), Practice for Testing Treestand Load Capacity

*Approved: 9/23/2014*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2123-2019, Practice for Treestand Instructions

*Approved: 6/25/2019*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2125-2009 (R2013), Test Method for Treestand Static Stability and Adherence

*Approved: 11/26/2013*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2126-2006 (R2018), Test Method for Treestand Static Load Capacity

*Approved: 10/23/2018*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2135-2017, Specification for Molded Drain, Waste, and Vent (DWV) Short-Pattern Plastic Fittings

*Approved: 3/28/2017*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2138-2017 (R2017), Specification for Excess Flow Valves for Natural Gas Service

*Approved: 8/22/2017*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2138-2017, Specification for Excess Flow Valves for Natural Gas Service

*Approved: 5/30/2017*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2140-2011 (R2019), Test Method for Performance of Hot Food Holding Cabinets

*Approved: 5/21/2019*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2141-2007 (R2019), Test Method for Performance of Self-Serve Hot Deli Cases

*Approved: 5/21/2019*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2142-2001 (R2019), Test Method for Performance of Drawer Warmers

*Approved: 5/21/2019*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2143-2016, Test Method for Performance of Refrigerated Buffet and Preparation Tables

*Approved: 6/28/2016*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2144-2009 (R2016), Test Method for Performance of Large Open Vat Fryers

*Approved: 10/18/2016*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2144-2017, Test Method for Performance of Large Open Vat Fryers

*Approved: 11/21/2017*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2145-2017 (R2018), Specification for Polyamide 11 (PA 11) and Polyamide 12 (PA12) Mechanical Fittings for Use on Outside Diameter Controlled Polyamide 11 and Polyamide 12 Pipe and Tubing

*Approved: 3/5/2018*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2145-2017, Specification for Polyamide 11 (PA 11) and Polyamide 12 (PA12) Mechanical Fittings for Use on Outside Diameter Controlled Polyamide 11 and Polyamide 12 Pipe and Tubing  
*Approved: 5/30/2017*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2153-2007 (R2018), Test Method for Measurement of Backpack Capacity  
*Approved: 4/24/2018*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2154-2013 (R2019), Specification for Sound-Absorbing Board, Fibrous Glass, Perforated Fibrous Glass Cloth Faced  
*Approved: 5/21/2019*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2157-2009 (R2018), Specification for Synthetic Surfaced Running Tracks  
*Approved: 7/1/2018*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2158-2008 (R2016), Specification for Residential Central-Vacuum Tube and Fittings  
*Approved: 10/18/2016*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2159-2017, Specification for Plastic Insert Fittings Utilizing a Copper Crimp Ring for SDR9 Cross-Linked Polyethylene (PEX) Tubing and SDR9 Polyethylene of Raised Temperature (PE-RT) Tubing  
*Approved: 5/31/2017*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2159-2018, Specification for Plastic Insert Fittings Utilizing a Copper Crimp Ring for SDR9 Cross-linked Polyethylene (PEX) Tubing and SDR9 Polyethylene of Raised Temperature (PE-RT) Tubing  
*Approved: 4/24/2018*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2159-2018, Specification for Plastic Insert Fittings Utilizing a Copper Crimp Ring for SDR9 Cross-linked Polyethylene (PEX) Tubing and SDR9 Polyethylene of Raised Temperature (PE-RT) Tubing  
*Approved: 11/20/2018*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2159-2019, Specification for Plastic Insert Fittings Utilizing a Copper Crimp Ring, or Alternate Stainless Steel Clamps for SDR9 Cross-linked Polyethylene (PEX) Tubing and SDR9 Polyethylene of Raised Temperature (PE-RT) Tubing  
*Approved: 8/20/2019*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2160-2017, Specification for Solid Wall High Density Polyethylene (HDPE) Conduit Based on Controlled Outside Diameter (OD)  
*Approved: 1/10/2017*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2165-2017, Specification for Flexible Pre-Insulated Piping  
*Approved: 5/31/2017*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2165-2019, Specification for Flexible Pre-Insulated Piping  
*Approved: 1/22/2019*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2168-2013, Specification for Packing Material, Graphitic, Corrugated Ribbon or Textured Tape, and Die-Formed Ring  
*Approved: 10/29/2013*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2176-2017, Specification for Mechanical Couplings Used on Polyethylene Conduit, Duct and Innerduct  
*Approved: 9/1/2017*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2184-2010 (R2018), Guide for Installation of Paintball Barrier Netting  
*Approved: 6/26/2018*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2191-2013, Specification for Packing Material, Graphitic or Carbon Braided Yarn  
*Approved: 12/15/2013*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2192-2005 (R2017), Test Method for Determining and Reporting the Berthing Energy and Reaction of Marine Fenders  
*Approved: 12/26/2017*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2202-2007 (R2015), Specification for Slow Cook/Hold Ovens and Hot Food Holding Cabinets  
*Approved: 3/24/2015*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2206-2017, Specification for Fabricated Fittings of Butt-Fused Polyethylene (PE)  
*Approved: 5/31/2017*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2206-2019, Specification for Fabricated Fittings of Butt-Fused Polyethylene (PE)  
*Approved: 1/22/2019*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2207-2017 (R2019), Specification for Cured-in-Place Pipe Lining System for Rehabilitation of Metallic Gas Pipe  
*Approved: 8/20/2019*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2216-2017, Specification for Selectorized Strength Equipment  
*Approved: 4/28/2017*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2216-2017a, Specification for Selectorized Strength Equipment  
*Approved: 12/26/2017*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2218-2008 (R2015), Guide for Hardware Implementation for Computerized Systems  
*Approved: 5/26/2015*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2219-2014, Test Methods for Measuring High-Speed Bat Performance  
*Approved: 5/20/2014*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2220-2014, Specification for Headforms  
*Approved: 11/25/2014*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2220-2015, Specification for Headforms  
*Approved: 6/23/2015*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2223-2015, Guide for ASTM Standards on Playground Surfacing  
*Approved: 10/20/2015*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2223-2019, Guide for ASTM Standards on Playground Surfacing  
*Approved: 7/1/2019*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2225-2015, Safety Specification for Consumer Trampoline Enclosures  
*Approved: 7/1/2015*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2237-2008 (R2015), Test Method for Performance of Upright Overfired Broilers  
*Approved: 3/24/2015*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2238-2016, Test Method for Performance of Rapid Cook Ovens  
*Approved: 3/15/2016*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2239-2010 (R2016), Test Method for Performance of Conveyor Broilers  
*Approved: 10/18/2016*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2268-2010 (R2015), Specification for Bicycle Serial Numbers  
*Approved: 10/20/2015*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2269-2011 (R2018), Guide for Maintaining Warm Season Turfgrasses on Athletic Fields  
*Approved: 10/23/2018*  
cleonard@astm.org

ASTM F2270-2012 (R2018), Guide for Construction and Maintenance of Warning Track Areas on Athletic Fields  
*Approved: 4/24/2018*  
cleonard@astm.org

ASTM F2270-2012 (R2018), Guide for Construction and Maintenance of Warning Track Areas on Athletic Fields  
*Approved: 10/23/2018*  
cleonard@astm.org

ASTM F2271-2011 (R2015), Specification for Paintball Marker Barrel Blocking Devices  
*Approved: 4/21/2015*  
cleonard@astm.org

ASTM F2272-2013 (R2017), Specification for Paintball Markers  
*Approved: 4/28/2017*  
cleonard@astm.org

ASTM F2273-2011 (R2016), Test Methods for Bicycle Forks  
*Approved: 10/18/2016*  
cleonard@astm.org

ASTM F2274-2011 (R2016), Specification for Condition 3 Bicycle Forks  
*Approved: 10/18/2016*  
cleonard@astm.org

ASTM F2275-2010 (R2014), Practice for Treestand Manufacturer Quality Assurance Program  
*Approved: 9/23/2014*  
cleonard@astm.org

ASTM F2275-2017, Practice for Treestand Manufacturer Quality Assurance Program  
*Approved: 12/26/2017*  
cleonard@astm.org

ASTM F2276-2010 (R2015), Specification for Fitness Equipment  
*Approved: 10/20/2015*  
cleonard@astm.org

ASTM F2277-2017, Test Methods for Evaluating Design and Performance Characteristics of Selectorized Strength Equipment  
*Approved: 5/15/2017*  
cleonard@astm.org

ASTM F2277-2017a, Test Methods for Evaluating Design and Performance Characteristics of Selectorized Strength Equipment  
*Approved: 12/26/2017*  
cleonard@astm.org

ASTM F2278-2019, Test Method for Evaluating Paintball Barrier Netting  
*Approved: 3/5/2019*  
cleonard@astm.org

ASTM F2283-2012 (R2018), Specification for Shipboard Oil Pollution Abatement System  
*Approved: 7/1/2018*  
cleonard@astm.org

ASTM F2324-2013 (R2019), Test Method for Prerinse Spray Valves  
*Approved: 5/21/2019*  
cleonard@astm.org

ASTM F2333-2004 (R2017), Test Method for Traction Characteristics of the Athletic Shoe-Sports Surface Interface  
*Approved: 9/19/2017*  
cleonard@astm.org

ASTM F2334-2009 (R2017), Guide for Above Ground Public Use Skatepark Facilities  
*Approved: 4/28/2017*  
cleonard@astm.org

ASTM F2334-2018, Guide for Above Ground Public Use Skatepark Facilities  
*Approved: 4/24/2018*  
cleonard@astm.org

ASTM F2336-2017, Reinstatement on Standard Guide for Roller Hockey Playing Facilities  
*Approved: 5/15/2017*  
cleonard@astm.org

ASTM F2337-2016, Test Method for Treestand Fall Arrest System  
*Approved: 10/18/2016*  
cleonard@astm.org

ASTM F2337-2018, Test Method for Treestand Fall Arrest System  
*Approved: 6/26/2018*  
cleonard@astm.org

ASTM F2337-2019, Test Method for Treestand Fall Arrest System  
*Approved: 3/5/2019*  
cleonard@astm.org

ASTM F2361-2018, Guide for Ordering Low Voltage (1000 VAC or Less) Alternating Current Electric Motors for Shipboard Service Up to and Including Motors of 500 Horsepower  
*Approved: 11/20/2018*  
cleonard@astm.org

ASTM F2362-2009 (R2013), Specification for Temperature Monitoring Equipment  
*Approved: 10/29/2013*  
cleonard@astm.org

ASTM F2363-2017, Specification for Sewage and Graywater Flow Through Treatment Systems  
*Approved: 11/15/2017*  
cleonard@astm.org

ASTM F2379-2004 (R2016), Test Method for Energy Performance of Powered Open Warewashing Sinks  
*Approved: 10/18/2016*  
cleonard@astm.org

ASTM F2380-2004 (R2016), Test Method for Performance of Conveyor Toasters  
*Approved: 10/18/2016*  
cleonard@astm.org

ASTM F2380-2018, Test Method for Performance of Conveyor Toasters  
*Approved: 3/20/2018*  
cleonard@astm.org

ASTM F2389-2017, Specification for Pressure-rated Polypropylene (PP) Piping Systems  
*Approved: 1/15/2017*  
cleonard@astm.org

ASTM F2389-2017a, Specification for Pressure-rated Polypropylene (PP) Piping Systems  
*Approved: 3/28/2017*  
cleonard@astm.org

ASTM F2390-2017 (R2017), Specification for Poly(Vinyl Chloride) (PVC) Plastic Drain, Waste, and Vent (DWV) Pipe and Fittings Having Post-Industrial Recycle Content  
*Approved: 8/22/2017*  
cleonard@astm.org

ASTM F2390-2017, Specification for Poly(Vinyl Chloride) (PVC) Plastic Drain, Waste, and Vent (DWV) Pipe and Fittings Having Post-Industrial Recycle Content  
*Approved: 5/30/2017*  
cleonard@astm.org

ASTM F2396-2011, Guide for Construction of High Performance Sand-Based Rootzones for Athletic Fields  
*Approved: 4/26/2011*  
cleonard@astm.org

ASTM F2397-2009 (R2015), Specification for Protective Headgear Used in Martial Arts  
*Approved: 1/1/2015*  
cleonard@astm.org

ASTM F2397-2018, Specification for Protective Headgear Used in Martial Arts

Approved: 10/23/2018

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2398-2011 (R2015), Test Method for Measuring Moment of Inertia and Center of Percussion of a Baseball or Softball Bat

Approved: 10/20/2015

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2400-2016, Specification for Helmets Used in Pole Vaulting

Approved: 4/19/2016

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2432-2012 (R2018), Specification for Ice Making Machines, Icemaker-Dispensers, and Ice Dispensing Equipment

Approved: 10/23/2018

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2434-2017, Specification for Metal Insert Fittings Utilizing a Copper Crimp Ring for SDR9 Cross-Linked Polyethylene (PEX) Tubing and SDR9 Cross-Linked Polyethylene/Aluminum/Cross-Linked Polyethylene (PEX-AL-PEX) Tubing

Approved: 5/31/2017

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2434-2018, Specification for Metal Insert Fittings Utilizing a Copper Crimp Ring for SDR9 Cross-linked Polyethylene (PEX) Tubing and SDR9 Cross-linked Polyethylene/Aluminum/Cross-linked Polyethylene (PEX-AL-PEX) Tubing

Approved: 11/20/2018

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2435-2015, Specification for Steel Reinforced Polyethylene (PE) Corrugated Pipe

Approved: 6/1/2015

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2439-2011 (R2016), Specification for Headgear Used in Soccer

Approved: 4/19/2016

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2439-2017, Specification for Headgear Used in Soccer

Approved: 9/19/2017

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2440-2018, Specification for Indoor Wall/Feature Padding

Approved: 11/20/2018

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2441-2012 (R2018), Practice for Labeling of Backpacking and Mountaineering Tents and Bivouac Sacks

Approved: 4/24/2018

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2446-2010 (R2019), Classification for Hierarchy of Equipment Identifiers and Boundaries for Reliability, Availability, and Maintainability (RAM) Performance Data Exchange

Approved: 12/18/2018

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2472-2005 (R2016), Test Method for Performance of Staff-Serve Hot Deli Cases

Approved: 10/18/2016

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2473-2012 (R2018), Test Method for Performance of Water-Bath Rethernalizers

Approved: 3/20/2018

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2474-2014, Test Method for Heat Gain to Space Performance of Commercial Kitchen Ventilation/Appliance Systems

Approved: 11/25/2014

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2474-2017, Test Method for Heat Gain to Space Performance of Commercial Kitchen Ventilation/Appliance Systems

Approved: 6/20/2017

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2479-2017, Guide for Specification, Purchase, Installation and Maintenance of Poured-In-Place Playground Surfacing

Approved: 4/28/2017

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2479-2017a, Guide for Specification, Purchase, Installation and Maintenance of Poured-In-Place Playground Surfacing

Approved: 6/20/2017

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2480-2006 (R2017), Guide for In-ground Concrete Skatepark

Approved: 4/28/2017

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2480-2018, Guide for In-ground Concrete Skatepark

Approved: 4/24/2018

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2487-2017 (R2017), Practice for Infiltration and Exfiltration Acceptance Testing of Installed Corrugated High Density Polyethylene and Polypropylene Pipelines

Approved: 11/21/2017

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2487-2017, Practice for Infiltration and Exfiltration Acceptance Testing of Installed Corrugated High Density Polyethylene and Polypropylene Pipelines

Approved: 5/31/2017

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2508-2016, Practice for Validation, Calibration, and Certification of Walkway Tribometers Using Reference Surfaces

Approved: 7/1/2016

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2509-2017 (R2019), Specification for Field-assembled Anodeless Riser Kits for Use on Outside Diameter Controlled Polyethylene and Polyamide-11 (PA11) Gas Distribution Pipe and Tubing

Approved: 8/20/2019

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2510-2017, Specification for Resilient Connectors between Reinforced Concrete Manhole Structures and Corrugated High Density Polyethylene Drainage Pipes

Approved: 5/31/2017

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2510-2017a, Specification for Resilient Connectors Between Reinforced Concrete Manhole Structures and Corrugated High Density Polyethylene Drainage Pipes

Approved: 12/26/2017

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2519-2011 (R2015), Test Method for Grease Particle Capture Efficiency of Commercial Kitchen Filters and Extractors

Approved: 11/17/2015

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2520-2005 (R2012), Specification for Reach-In Refrigerators, Freezers, Combination Refrigerator/Freezers, and Thaw Cabinets

Approved: 5/22/2012

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2521-2009 (R2014), Specification for Heavy-Duty Ranges, Gas and Electric

Approved: 4/22/2014

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2530-2013, Specification for Protective Headgear with Faceguard Used in Bull Riding

Approved: 11/26/2013

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2531-2013, Test Method for Load Capacity of Treestand Seats

Approved: 12/24/2013

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2536-2017, Guide for Installing Plastic DWV Piping Suspended from On-Grade Slabs

Approved: 5/30/2017

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2536-2017a, Guide for Installing Plastic DWV Piping Suspended from On-Grade Slabs

Approved: 11/21/2017

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2544-2011 (R2018), Test Method for Determining A-Weighted Sound Power Level of Central Vacuum Power Units  
*Approved: 3/20/2018*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2553-2016, Specification for Warnings on Refillable CO2 Cylinders Used In the Sport of Paintball  
*Approved: 4/19/2016*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2562-2017, Specification for Steel Reinforced Thermoplastic Ribbed Pipe and Fittings for Non-Pressure Drainage and Sewerage  
*Approved: 5/31/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2568-2006 (R2018), Test Method for Measurement of Sleeping Bags  
*Approved: 4/24/2018*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2569-2011, Test Method For Evaluating The Force Reduction Properties Of Surfaces For Athletic Use  
*Approved: 11/22/2011*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2571-2015, Test Methods for Evaluating Design and Performance Characteristics of Fitness Equipment  
*Approved: 6/23/2015*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2573-2006 (R2018), Specification for Low Velocity Resilient Material Projectile  
*Approved: 6/26/2018*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2574-2006 (R2018), Specification for Low Velocity Projectile Marker  
*Approved: 6/26/2018*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2600-2017 (R2018), Specification for Electrofusion Type Polyamide-11 Fittings for Outside Diameter Controlled Polyamide-11 Pipe and Tubing  
*Approved: 2/20/2018*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2600-2017, Specification for Electrofusion Type Polyamide-11 Fittings for Outside Diameter Controlled Polyamide-11 Pipe and Tubing  
*Approved: 5/30/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2607-2008 (R2014), Test Method for Measuring the Hard Surface Floor-Cleaning Ability of Household/Commercial Vacuum Cleaners  
*Approved: 11/25/2014*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2608-2007 (R2014), Test Method for Determining the Change in Room Air Particulate Counts as a Result of the Vacuum Cleaning Process  
*Approved: 10/21/2014*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2608-2015, Test Method for Determining the Change in Room Air Particulate Counts as a Result of the Vacuum Cleaning Process  
*Approved: 11/17/2015*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2609-2011 (R2015), Test Method for Litter-Cleaning Effectiveness of Vacuum Cleaners  
*Approved: 11/17/2015*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2614-2019, Specification for Condition 3 Bicycle Frames  
*Approved: 6/25/2019*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2618-2017, Specification for Chlorinated Poly(Vinyl Chloride) (CPVC) Pipe and Fittings for Chemical Waste Drainage Systems  
*Approved: 5/30/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2618-2019, Specification for Chlorinated Poly (Vinyl Chloride) (CPVC) Pipe and Fittings for Chemical Waste Drainage Systems  
*Approved: 1/1/2019*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2620-2017, Practice for Heat Fusion Joining of Polyethylene Pipe and Fittings  
*Approved: 5/31/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2620-2019, Practice for Heat Fusion Joining of Polyethylene Pipe and Fittings  
*Approved: 3/5/2019*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2623-2017, Specification for Polyethylene of Raised Temperature (PE-RT) SDR 9 Tubing  
*Approved: 5/30/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2623-2019, Specification for Polyethylene of Raised Temperature (PE-RT) SDR 9 Tubing  
*Approved: 4/30/2019*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2643-2015, Specification for Powered Pot, Pan and Utensil Washing Sinks  
*Approved: 8/24/2015*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2644-2007 (R2019), Test Method For Performance of Commercial Patio Heaters  
*Approved: 5/21/2019*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2645-2016, Specification for Bun Slicing Machines  
*Approved: 12/20/2016*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2646-2016, Specification for Bread Slicing Machines  
*Approved: 12/20/2016*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2647-2007 (R2016), Guide for Approved Methods of Installing a CVS (Central Vacuum System)  
*Approved: 10/18/2016*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2649-2017 (R2019), Specification for Corrugated High Density Polyethylene (HDPE) Grease Interceptor Tanks  
*Approved: 3/5/2019*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2649-2017, Specification for Corrugated High Density Polyethylene (HDPE) Grease Interceptor Tanks  
*Approved: 5/30/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2650-2017, TERMINOLOGY RELATING TO IMPACT TESTING OF SPORTS SURFACES AND EQUIPMENT  
*Approved: 9/15/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2651-2010a, Terminology Relating to Soil and Turfgrass Characteristics of Natural Playing Surfaces  
*Approved: 12/15/2010*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2651-2011 (R2015), Terminology Relating to Soil and Turfgrass Characteristics of Natural Playing Surfaces  
*Approved: 10/20/2015*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2653-2011 (R2015), Specification for Paintball Valve Male Threaded Connection for Use with Approved Cylinders  
*Approved: 4/21/2015*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2653-2016, Specification for Paintball Valve Male Threaded Connection for Use with Approved Cylinders

Approved: 4/19/2016

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2654-2015, Specification for Low Energy Air Gun (LEAG) Warnings

Approved: 4/21/2015

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2654-2016, Specification for Airsoft Gun Warnings

Approved: 6/1/2016

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2679-2015 (R2019), Specification for 6 mm Projectiles Used with Airsoft Guns

Approved: 6/25/2019

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2679-2015, Specification for 6 mm Projectiles Used with Low Energy Air Guns

Approved: 4/21/2015

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2680-2017, Specification for Manually Operated Front Wheel Retention Systems for Bicycles

Approved: 9/19/2017

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2681-2018, Specification for Body Protectors Used in Equine Racing

Approved: 4/24/2018

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2687-2013 (R2019), Practice for Life Cycle Cost Analysis of Commercial Food Service Equipment

Approved: 7/23/2019

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2711-2008 (R2012), Test Methods for Bicycle Frames

Approved: 11/20/2012

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2713-2014, Specification for Eye Protectors for Field Hockey

Approved: 9/23/2014

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2713-2018, Specification for Eye Protectors for Field Hockey

Approved: 9/15/2018

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2727-2009 (R2014), Guide for Manufacturers for Labeling Headgear Products

Approved: 11/25/2014

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2735-2017, Specification for Plastic Insert Fittings for SDR9 Cross-Linked Polyethylene (PEX) and Polyethylene of Raised Temperature (PE-RT) Tubing

Approved: 5/31/2017

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2735-2018, Specification for Plastic Insert Fittings For SDR9 Cross-linked Polyethylene (PEX) and Polyethylene of Raised Temperature (PE-RT) Tubing

Approved: 11/20/2018

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2737-2017 (R2017), Specification for Corrugated High Density Polyethylene (HDPE) Water Quality Units

Approved: 8/22/2017

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2737-2017, Specification for Corrugated High Density Polyethylene (HDPE) Water Quality Units

Approved: 5/30/2017

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2747-2010, Guide for Construction of Sand-Based Rootzones for Golf Putting Greens and Tees

Approved: 7/1/2010

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2748-2015 (R2019), Specification for Airsoft Guns

Approved: 6/25/2019

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2748-2015, Specification for Low Energy Air Guns

Approved: 4/21/2015

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2756-2011 (R2016), Test Method for Determining Energy Consumption of Vacuum Cleaners

Approved: 10/18/2016

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2765-2014, Specification for Total Lead Content in Synthetic Turf Fibers

Approved: 9/23/2014

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2767-2017, Specification for Electrofusion Type Polyamide-12 Fittings for Outside Diameter Controlled Polyamide-12 Pipe and Tubing for Gas Distribution

Approved: 5/30/2017

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2767-2018, Specification for Electrofusion Type Polyamide-12 Fittings for Outside Diameter Controlled Polyamide-12 Pipe and Tubing for Gas Distribution

Approved: 4/24/2018

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2769-2016, Specification for Polyethylene of Raised Temperature (PE-RT) Plastic Hot and Cold-Water Tubing and Distribution Systems

Approved: 11/22/2016

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2769-2018, Specification for Polyethylene of Raised Temperature (PE-RT) Plastic Hot and Cold-Water Tubing and Distribution Systems

Approved: 8/21/2018

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2772-2011, Specification For Athletic Performance Properties Of Indoor Sports Floor Systems

Approved: 11/22/2011

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2773-2013 (R2017), Practice for Transfilling Compressed Air or Nitrogen and Safe Handling of Small Paintball Cylinders

Approved: 4/28/2017

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2774-2009 (R2014), Practice for Manufacturing Quality Control of Consumer Trampoline Bed Material

Approved: 5/15/2014

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2785-2017, Specification for Polyamide 12 Gas Pressure Pipe, Tubing, and Fittings

Approved: 5/30/2017

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2785-2018, Specification for Polyamide 12 Gas Pressure Pipe, Tubing, and Fittings

Approved: 4/24/2018

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2785-2018a, Specification for Polyamide 12 Gas Pressure Pipe, Tubing, and Fittings

Approved: 9/1/2018

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2788-2018, Specification for Metric and Inch-sized Crosslinked Polyethylene (PEX) Pipe

Approved: 2/20/2018

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2788-2019, Specification for Metric and Inch-sized Crosslinked Polyethylene (PEX) Pipe

Approved: 4/30/2019

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2788-2019, Specification for Metric and Inch-sized Crosslinked Polyethylene (PEX) Pipe  
*Approved: 8/20/2019*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2793-2014, Specification for Bicycle Grips  
*Approved: 9/23/2014*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2795-2015, Test Method for Performance of Self-Contained Soft Serve and Shake Machines  
*Approved: 3/24/2015*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2795-2018, Test Method for Performance of Self-Contained Soft Serve and Shake Freezers  
*Approved: 9/25/2018*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2796-2019, Specification for Hot Food Holding Tables  
*Approved: 3/26/2019*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2797-2019, Reinstatement of Test Method for Evaluating Edge Cleaning Effectiveness of Vacuum Cleaners  
*Approved: 7/9/2019*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2798-2009 (R2018), Specification for Sealless Lube Oil Pump with Oil Through Motor for Marine Applications  
*Approved: 5/22/2018*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2800-2011 (R2017), Specification for Recirculating Hood System for Cooking Appliances  
*Approved: 4/28/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2801-2011 (R2015), Practice for Paintball Player Safety Briefing  
*Approved: 4/21/2015*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2801-2019, Practice for Paintball Player Safety Briefing  
*Approved: 7/1/2019*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2802-2009 (R2015), Specification for Condition 1 Bicycle Frames  
*Approved: 10/20/2015*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2802-2019, Specification for Condition 1 Bicycle Frames  
*Approved: 6/25/2019*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2806-2017, Specification for Acrylonitrile-Butadiene-Styrene (ABS) Plastic Pipe (Metric SDR-PR)  
*Approved: 5/30/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2810-2015, Specification for Elliptical Trainers  
*Approved: 12/22/2015*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2811-2015, Test Methods for Evaluating Design and Performance Characteristics of Elliptical Trainers  
*Approved: 12/22/2015*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2812-2012 (R2018), Specification for Goggle- and Spectacle-Type Eye Protectors for Selected Motor Sports  
*Approved: 4/24/2018*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2817-2017 (R2019), Specification for Poly (Vinyl Chloride) (PVC) Gas Pressure Pipe and Fittings For Maintenance or Repair  
*Approved: 5/1/2019*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2817-2017, Specification for Poly(Vinyl Chloride) (PVC) Gas Pressure Pipe and Fittings For Maintenance or Repair  
*Approved: 5/30/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2818-2017 (R2019), Specification for Specification for Crosslinked Polyethylene (PEX) Material Gas Pressure Pipe and Tubing  
*Approved: 8/20/2019*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2826-2014 (R2018), Test Method for Evaluating the Sustained Air Performance and Exhaust Emission Efficiencies of Central Vacuum Cleaning Units  
*Approved: 5/22/2018*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2828-2012, Test Method For Measuring The Carpet Cleaning Effectiveness Of Wet Extraction Cleaners  
*Approved: 7/1/2012*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2829-2017, Specification for Metric- and Inch-Sized Crosslinked Polyethylene (PEX) Pipe Systems  
*Approved: 5/30/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2830-2017 (R2017), Specification for Manufacture and Joining of Polyethylene (PE) Gas Pressure Pipe With a Peelable Polypropylene (PP) Outer Layer  
*Approved: 8/22/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2830-2017, Specification for Manufacture and Joining of Polyethylene (PE) Gas Pressure Pipe with a Peelable Polypropylene (PP) Outer Layer  
*Approved: 5/30/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2834-2010 (R2017), Specification for Induction Cooktops, Counter Top, Drop-in Mounted, or Floor Standing  
*Approved: 11/21/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2835-2010 (R2017), Specification for Underfired Broilers  
*Approved: 11/21/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2842-2011 (R2017), Specification for Reins Used in Thoroughbred and Quarter Horse Racing  
*Approved: 4/28/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2843-2010 (R2015), Specification for Condition 0 Bicycle Frames  
*Approved: 10/20/2015*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2843-2019, Specification for Condition 0 Bicycle Frames  
*Approved: 6/25/2019*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2844-2011 (R2015), Test Method for Displacement Compression of Softball and Baseball Bat Barrels  
*Approved: 10/20/2015*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2844-2015 (R2016), Test Method for Displacement Compression of Softball and Baseball Bat Barrels  
*Approved: 4/19/2016*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2845-2014, Test Method for Measuring the Dynamic Stiffness (DS) and Cylindrical Coefficient of Restitution (CCOR) of Baseballs and Softballs  
*Approved: 3/1/2014*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2854-2016, Specification for Push-Fit Crosslinked Polyethylene (PEX) Mechanical Fittings for Crosslinked Polyethylene (PEX) Tubing  
*Approved: 8/23/2016*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2855-2017, Specification for Chlorinated Poly(Vinyl Chloride)/Aluminum/Chlorinated Poly(Vinyl Chloride) (CPVC-AL-CPVC) Composite Pressure Tubing  
*Approved: 5/30/2017*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2855-2019, Specification for Chlorinated Poly(Vinyl Chloride)/Aluminum/Chlorinated Poly(Vinyl Chloride) (CPVC-AL-CPVC) Composite Pressure Tubing  
*Approved: 4/30/2019*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2856-2012 (R2016), Practice for Transfilling and Safe Handling of Small CO2 Cylinders for Use in Paintball  
*Approved: 4/19/2016*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2861-2015, Test Method for Enhanced Performance of Combination Oven in Various Modes  
*Approved: 11/17/2015*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2861-2017, Test Method for Enhanced Performance of Combination Oven in Various Modes  
*Approved: 11/21/2017*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2863-2011 (R2016), Specification for Central Vacuum Hose Inlet Valve Socket Dimensions  
*Approved: 10/18/2016*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2867-2013, Terminology Relating to Thoroughbred Horse Racing Surfaces  
*Approved: 11/15/2013*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2868-2010 (R2015), Specification for Condition 2 Bicycle Frames  
*Approved: 10/20/2015*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2868-2019, Specification for Condition 2 Bicycle Frames  
*Approved: 6/25/2019*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2875-2010 (R2015), Guide for Laboratory Requirements Necessary to Test Commercial Cooking and Warming Appliances to ASTM Test Methods  
*Approved: 3/24/2015*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2876-2010 (R2015), Practice for Thermal Rating and Installation of Internal Combustion Engine Packages for use in Hazardous Locations in Marine Applications  
*Approved: 5/26/2015*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2877/F2877M-2013 (R2019), Test Method for Shock Testing of Structural Insulation of A-Class Divisions Constructed of Steel or Aluminum  
*Approved: 5/21/2019*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2879-2016, Specification for Eye Protective Devices for Airsoft Sports  
*Approved: 11/22/2016*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2879-2018, Specification for Eye Protective Devices for Airsoft Sports  
*Approved: 4/24/2018*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2879-2019, Specification for Eye Protective Devices for Airsoft Sports  
*Approved: 4/30/2019*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2880-2017, Specification for Lap-Joint Type Flange Adapters for Polyethylene Pressure Pipe in Nominal Pipe Sizes 34 in. to 65 in.  
*Approved: 5/31/2017*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2891-2015, Specification for Commercial Bulk Milk Dispensers, Mechanically Refrigerated  
*Approved: 8/24/2015*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2897-2017, Specification for Tracking and Traceability Encoding System of Natural Gas Distribution Components (Pipe, Tubing, Fittings, Valves, and Appurtenances)  
*Approved: 5/30/2017*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2898-2011, Test Method For Permeability Of Synthetic Turf Sports Field Base Stone And Surface System By Non-confined Area Flood Test Method  
*Approved: 3/29/2011*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2899-2011 (R2016), Specification for Condition 1 Bicycle Forks  
*Approved: 10/18/2016*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2904-2011 (R2015), Specification for Warnings on Paintball Marker Accessories Used In the Sport of Paintball  
*Approved: 4/21/2015*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2916-2019, Practice for Environmental Impact Analysis of Commercial Food Service Equipment  
*Approved: 1/15/2019*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2917-2012 (R2018), Specification for Bicycle Trailer Cycles Designed for Human Passengers  
*Approved: 4/24/2018*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2918-2011 (R2015), Test Method for Weighing a Bicycle  
*Approved: 10/20/2015*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2929-2017, Specification for Crosslinked Polyethylene (PEX) Tubing of 0.070 in. Wall and Fittings for Radiant Heating Systems up to 75 psig  
*Approved: 12/1/2017*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2934-2012 (R2018), Specification for Circular Metallic Bellows Type Expansion Joint for HVAC Piping Applications  
*Approved: 3/20/2018*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2935-2012 (R2018), Specification for Chocks, Panama, Mooring Cast Steel  
*Approved: 3/20/2018*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2936-2012 (R2018), Specification for Chocks, Ship Mooring, Cast Steel  
*Approved: 3/20/2018*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2940-2013 (R2017), Practice for Air Soft Field Operation  
*Approved: 4/28/2017*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2941-2013 (R2017), Practice for Air Soft Player Safety Briefing  
*Approved: 4/28/2017*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2945-2017, Specification for Polyamide 11 Gas Pressure Pipe, Tubing, and Fittings  
*Approved: 5/30/2017*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2945-2018, Specification for Polyamide 11 Gas Pressure Pipe, Tubing, and Fittings

Approved: 9/1/2018

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2946-2017 (R2017), Specification for PVC Hub and Elastomeric Seal (Gasket) Tee Connection for Joining Plastic Pipe to Insitu Pipelines and Manholes

Approved: 8/22/2017

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2946-2017, Specification for PVC Hub and Elastomeric Seal (Gasket) Tee Connection for Joining Plastic Pipe to in situ Pipelines and Manholes

Approved: 5/31/2017

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2949-2018, Specification for Pole Vault Box Collars

Approved: 4/24/2018

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2968/F2968M-2014, Specification for Black Crosslinked Polyethylene (PEX) Pipe, Fittings and Joints for Gas Distribution Applications

Approved: 4/22/2014

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2969-2017, Specification for Acrylonitrile-Butadiene-Styrene (ABS) IPS Dimensioned Pressure Pipe

Approved: 5/30/2017

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2975-2012 (R2017), Test Method for Measuring the Field Performance of Commercial Kitchen Ventilation Systems

Approved: 4/28/2017

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2976-2013 (R2019), Practice for Determining the Field Performance of Commercial Kitchen Demand Control Ventilation Systems

Approved: 5/21/2019

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2983-2013 (R2018), Guide for Manufacturers for Labeling and Care Instructions for Wrestling Mats

Approved: 11/20/2018

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2987-2017 (R2018), Specification for Corrugated Polyethylene Pipe and Fittings for Mine Heap Leach Aeration Applications

Approved: 2/20/2018

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2987-2017, Specification for Corrugated Polyethylene Pipe and Fittings for Mine Heap Leach Aeration Applications

Approved: 5/30/2017

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2988-2018, Specification for Commercial Coffee Brewers

Approved: 10/23/2018

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2990-2012 (R2018), Test Method for Commercial Coffee Brewers

Approved: 10/23/2018

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F2991-2013, Guide For Doubler Plate Repairs For Non-Classed Ship Structures

Approved: 2/1/2013

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F3012-2014, Specification for Loose-Fill Rubber for Use as a Playground Safety Surface under and around Playground Equipment

Approved: 5/1/2014

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F3013-2013 (R2018), Test Method for Density of Topsoil and Blended Soils In-place by the Core Displacement Method

Approved: 10/23/2018

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F3021-2014, Specification for Universal Design of Fitness Equipment for Inclusive Use by Persons with Functional Limitations and Impairments

Approved: 9/23/2014

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F3021-2015, Specification for Universal Design of Fitness Equipment for Inclusive Use by Persons with Functional Limitations and Impairments

Approved: 4/21/2015

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F3021-2016, Specification for Universal Design of Fitness Equipment for Inclusive Use by Persons with Functional Limitations and Impairments

Approved: 10/18/2016

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F3021-2017, Specification for Universal Design of Fitness Equipment for Inclusive Use by Persons with Functional Limitations and Impairments

Approved: 4/28/2017

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F3022-2014, Test Method for Evaluating the Universal Design of Fitness Equipment for Inclusive Use by Persons with Functional Limitations and Impairments

Approved: 9/23/2014

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F3022-2015, Test Method for Evaluating the Universal Design of Fitness Equipment for Inclusive Use by Persons with Functional Limitations and Impairments

Approved: 4/21/2015

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F3022-2016, Test Method for Evaluating the Universal Design of Fitness Equipment for Inclusive Use by Persons with Functional Limitations and Impairments

Approved: 10/18/2016

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F3023-2018, Test Methods for Evaluating Design and Performance Characteristics of Stationary Upright and Recumbent Exercise Bicycles and Upper Body Ergometers

Approved: 6/26/2018

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F3034-2017, Specification for Billets Made by Winding Molten Extruded Stress-Rated High Density Polyethylene (HDPE)

Approved: 5/30/2017

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F3040-2013 (R2018), Test Method for Mechanical Static Load Testing of Non-Structural Marine Joiner Bulkheads

Approved: 4/24/2018

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F3051-2014 (R2019), Test Method for Performance of Cook-and-Hold Ovens

Approved: 5/21/2019

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F3051-2014, Test Method For Performance of Cook-and-Hold Ovens

Approved: 1/21/2014

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F3052-2014, Standard Guide for Conducting Small Boat Stability Test (Deadweight Survey and Air Inclining Experiment) to Determine Lightcraft Weight and Centers of Gravity of a Small Craft

Approved: 1/21/2014

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F3059-2015, Specification for Fiber-Reinforced Polymer (FRP) Gratings Used in Marine Construction and Shipbuilding

Approved: 11/15/2015

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F3059-2018, Specification for Fiber-Reinforced Polymer (FRP) Gratings Used in Marine Construction and Shipbuilding  
*Approved: 7/17/2018*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F3077-2017, Specification for Eye Protectors for Womens Lacrosse  
*Approved: 7/1/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F3085-2014 (R2018), Specification for Air Soft Gun Barrel Blocking Devices  
*Approved: 6/26/2018*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F3100-2015, Practice for Low Impact Paintball Field Operation  
*Approved: 3/15/2015*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F3101-2015, Specification for Unsupervised Public Use Outdoor Fitness Equipment  
*Approved: 4/21/2015*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F3102-2015, Guide for Specifying, Measuring, and Managing Impact Attenuation of Synthetic Turf Playing Systems  
*Approved: 1/1/2015*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F3103-2014, Specification for Testing Off-Road Motorcycle and ATV Helmets  
*Approved: 9/23/2014*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F3104-2014, Test Methods for Evaluating Design and Performance Characteristics of Externally Loaded Strength Training Equipment, Strength Training Benches and External Weight Storage Equipment  
*Approved: 9/23/2014*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F3105-2014, Specification for Externally Loaded Strength Training Equipment, Strength Training Benches and External Weight Storage Equipment  
*Approved: 9/23/2014*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F3123-2018, Specification for Metric Outside Diameter Polyethylene (PE) Plastic Pipe (DR-PN)  
*Approved: 4/24/2018*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F3123-2018a, Specification for Metric Outside Diameter Polyethylene (PE) Plastic Pipe (DR-PN)  
*Approved: 11/1/2018*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F3124-2017, Practice for Data Recording the Procedure used to Produce Heat Butt Fusion Joints in Plastic Piping Systems or Fittings  
*Approved: 5/31/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F3128-2017, Test Method for Treestand Repetitive Loading Capability  
*Approved: 5/30/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F3128-2018, Specification for Poly(Vinyl Chloride) (PVC) Schedule 40 Drain, Waste, and Vent Pipe with a Cellular Core  
*Approved: 11/20/2018*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F3128-2019, Specification for Poly(Vinyl Chloride) (PVC) Schedule 40 Drain, Waste, and Vent Pipe with a Cellular Core  
*Approved: 3/21/2019*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F3137-2015, Headgear Used in Women's Lacrosse (excluding goalkeepers)  
*Approved: 7/1/2015*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F3146-2018, Test Method for Impact Attenuation of Turf Playing Systems Designated for Rugby  
*Approved: 8/1/2018*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F3150-2018, Specification for HEPA Filtration System Performance of Residential and Commercial Vacuum Cleaners  
*Approved: 10/1/2018*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F3164-2019, Specification for Eye Protectors for Racket Sports (Racquetball, Squash, Tennis)  
*Approved: 7/1/2019*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F3165-2016, Specification for Throat Protective Equipment for Hockey Goaltenders  
*Approved: 3/15/2016*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F3188-2016, Specification for Crumb Rubber Used as Synthetic Turf Infill  
*Approved: 6/1/2016*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F3189-2017, Test Method For Measuring Force Reduction, Vertical Deformation, and Energy Restitution of Synthetic Turf Systems using the Advanced Artificial Athlete  
*Approved: 1/1/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F3190-2017, Practice for Heat Fusion Equipment (HFE) Operator Qualification on Polyethylene (PE) and Polyamide (PA) Pipe and Fittings  
*Approved: 5/31/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F3202-2019, Specification for Solid Wall Poly (Vinyl Chloride) PVC Fittings for Joining Corrugated Wall High Density Polyethylene (PE) and Polypropylene (PP) Piping  
*Approved: 8/20/2019*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F3215-2016, Specification For Food Waste Dehydrators  
*Approved: 10/18/2016*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F3216-2016, Test Method For Standard Test Method for the Performance of Retherm Ovens  
*Approved: 10/18/2016*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F3226-2016, Specification For Metallic Press-Connect Fittings for Piping and Tubing Systems  
*Approved: 12/20/2016*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F3226-2019, Specification for Metallic Press-Connect Fittings for Piping and Tubing Systems  
*Approved: 8/1/2019*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F3248-2017, Method For Determining Vertical Deformation and Area Deflection of Area Elastic, Point Elastic, Combined Elastic and Mixed Elastic Sport and Dance Surfaces  
*Approved: 12/26/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F3249-2017, Specification for Treestands, Climbing Sticks and Tripod or Tower Stands  
*Approved: 6/15/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F3253-2017, Specification For Crosslinked Polyethylene (PEX) Tubing with Oxygen Barrier for Hot- and Cold-Water Hydronic Distribution Systems  
*Approved: 12/1/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F3253-2018, Specification for Crosslinked Polyethylene (PEX) Tubing with Oxygen Barrier for Hot- and Cold-Water Hydronic Distribution Systems  
*Approved: 8/21/2018*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F3255-2019, Specification for Rapid pull down refrigerators (Blast Chillers), freezers (blast freezers), combination refrigerator/freezer (blast chiller/freezers), and quick chillers for commercial use  
*Approved: 3/26/2019*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F3256-2017, Guide for Reporting and Recording of Near Misses for Maritime Industry  
*Approved: 5/23/2017*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F3257-2017, Guide for Design, Construction and Operation of Vessels Providing Accommodation Service to Offshore Installations  
*Approved: 5/23/2017*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F3284-2018, Guide For Recording and Reporting of Injuries and Illnesses for the Maritime Industry  
*Approved: 2/1/2018*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F3285-2018, Guide For Installation and Application of Type C Portable Tanks for Marine LNG Service  
*Approved: 5/15/2018*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F3286-2018, Guide For Cybersecurity and Cyberattack Mitigation  
*Approved: 10/2/2018*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F3312-2018, Practice for Liquefied Natural Gas (LNG) Bunkering Hose Transfer Assembly  
*Approved: 6/26/2018*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F3313-2018, Test Method for Determining Impact Attenuation of Playground Surfaces Within the Use Zone of Playground Equipment as tested in the field  
*Approved: 12/1/2018*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F3313-2019, Test Method for Determining Impact Attenuation of Playground Surfaces Within the Use Zone of Playground Equipment as Tested in the Field  
*Approved: 9/1/2019*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F3328-2018, Practice for the One-Step (Solvent Cement Only) Method of Joining Poly (Vinyl Chloride) (PVC) or Chlorinated Poly (Vinyl Chloride) (CPVC) Pipe and Piping Components with Tapered Sockets  
*Approved: 8/21/2018*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F3340-2018, Test Method for Thermal Resistance of Camping Mattresses Using a Guarded Hot Plate Apparatus  
*Approved: 10/23/2018*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F3346-2019, Specification for Polyethylene of Raised Temperature/Aluminum/Polyethylene of Raised Temperature (PE-RT/AL/PE-RT) Composite Pressure Pipe  
*Approved: 6/1/2019*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F3347-2018, Specification for Metal Press Insert Fittings with Factory Assembled Stainless Steel Press Sleeve for SDR9 Cross-linked Polyethylene (PEX) Tubing  
*Approved: 11/20/2018*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F3347-2019, Specification for Metal Press Insert Fittings with Factory Assembled Stainless Steel Press Sleeve for SDR9 Cross-linked Polyethylene (PEX) Tubing  
*Approved: 4/30/2019*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F3348-2018, Specification for Plastic Press Insert Fittings with Factory Assembled Stainless Steel Press Sleeve for SDR9 Cross-linked Polyethylene (PEX) Tubing  
*Approved: 11/20/2018*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F3348-2019, Specification for Plastic Press Insert Fittings with Factory Assembled Stainless Steel Press Sleeve for SDR9 Cross-linked Polyethylene (PEX) Tubing  
*Approved: 4/30/2019*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F3353-2019, Guide for Design Guidance for Shipboard use of Lithium Based Batteries  
*Approved: 2/15/2019*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F3371-2019, Specification for Polyolefin Pipe and Fittings for Drainage, Waste, and Vent Applications  
*Approved: 4/30/2019*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F3383-2019, Test Method for Filament Bind of single fibers in Synthetic turf  
*Approved: 6/25/2019*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F355-2016, Test Method for Impact Attenuation of Playing Surface Systems and Materials  
*Approved: 7/1/2016*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F381-2015, Safety Specification for Components, Assembly, Use, and Labeling of Consumer Trampolines  
*Approved: 7/1/2015*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F381-2016, Safety Specification for Components, Assembly, Use, and Labeling of Consumer Trampolines  
*Approved: 6/1/2016*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F395-2010 (R2018), Terminology Relating to Vacuum Cleaners  
*Approved: 3/20/2018*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F395-2019, Terminology Relating to Vacuum Cleaners  
*Approved: 4/30/2019*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F400-2019, Consumer Safety Specification for Lighters  
*Approved: 5/1/2019*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F402-2017, Practice for Safe Handling of Solvent Cements, Primers, and Cleaners Used for Joining Thermoplastic Pipe and Fittings  
*Approved: 5/31/2017*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F402-2018, Practice for Safe Handling of Solvent Cements, Primers, and Cleaners Used for Joining Thermoplastic Pipe and Fittings  
*Approved: 8/21/2018*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F409-2017, Specification for Thermoplastic Accessible and Replaceable Plastic Tube and Tubular Fittings  
*Approved: 4/28/2017*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F420-1999 (R2014), Test Method for Access Depth Under Furniture of Vacuum Cleaners  
*Approved: 11/25/2014*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F430-2013 (R2018), Specification for Paper Used for Vacuum Cleaner Filter Bags  
*Approved: 10/23/2018*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F431-1999 (R2013), SPECIFICATION FOR AIR PERFORMANCE MEASUREMENT PLENUM CHAMBER FOR VACUUM CLEANERS  
*Approved: 05/21/2013*

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F437-2017, Specification for Threaded Chlorinated Poly(Vinyl Chloride) (CPVC) Plastic Pipe Fittings, Schedule 80  
*Approved: 5/31/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F438-2017, Specification for Socket-Type Chlorinated Poly(Vinyl Chloride) (CPVC) Plastic Pipe Fittings, Schedule 40  
*Approved: 5/31/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F438-2017a, Specification for Socket-Type Chlorinated Poly(Vinyl Chloride) (CPVC) Plastic Pipe Fittings, Schedule 40  
*Approved: 8/22/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F439-2017, Specification for Chlorinated Poly(Vinyl Chloride) (CPVC) Plastic Pipe Fittings, Schedule 80  
*Approved: 5/31/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F439-2019, Specification for Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe Fittings, Schedule 80  
*Approved: 8/20/2019*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F441/F441M-2017, Specification for Chlorinated Poly(Vinyl Chloride) (CPVC) Plastic Pipe, Schedules 40 and 80  
*Approved: 5/16/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F442-2019, Specification for Chlorinated Poly(Vinyl Chloride) (CPVC) Plastic Pipe (SDRPR)  
*Approved: 8/20/2019*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F450-2013, Test Methods for Vacuum Cleaner Hose - Durability and Reliability (Plastic)  
*Approved: 05/21/2013*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F477-2017, Specification for Elastomeric Seals (Gaskets) for Joining Plastic Pipe  
*Approved: 5/31/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F480-2017, Specification for Thermoplastic Well Casing Pipe and Couplings Made in Standard Dimension Ratios (SDR), SCH 40 and SCH 80  
*Approved: 5/30/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F486-2001 (R2018), Practice for Preparation of Use and Care Booklets for Vacuum Cleaners  
*Approved: 3/20/2018*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F493-2017, Specification for Solvent Cements for Chlorinated Poly(Vinyl Chloride) (CPVC) Plastic Pipe and Fittings  
*Approved: 5/31/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F494-2011 (R2016), Test Methods for Evaluating Primary Disposable Bag Integrity for Vacuum Cleaners  
*Approved: 4/19/2016*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F512-2017, Specification for Smooth-Wall Poly(Vinyl Chloride) (PVC) Conduit and Fittings for Underground Installation  
*Approved: 4/28/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F513-2012 (R2018), Specification for Eye and Face Protective Equipment for Hockey Players  
*Approved: 4/24/2018*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F539-2002 (R2017), Practice for Fitting Athletic Footwear  
*Approved: 9/19/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F555-2006 (R2016), Test Method for Motor Life Evaluation of an Upright Vacuum Cleaner  
*Approved: 10/18/2016*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F558-2017, Test Method for Measuring Air Performance Characteristics of Vacuum Cleaners  
*Approved: 3/1/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F558-2017a, Test Method for Measuring Air Performance Characteristics of Vacuum Cleaners  
*Approved: 9/19/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F558-2018, Test Method for Measuring Air Performance Characteristics of Vacuum Cleaners  
*Approved: 10/23/2018*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F608-2017, Test Method for Evaluation of Carpet Embedded Dirt Removal Effectiveness of Household/Commercial Vacuum Cleaners  
*Approved: 3/1/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F608-2018, Test Method for Evaluation of Carpet Embedded Dirt Removal Effectiveness of Household/Commercial Vacuum Cleaners  
*Approved: 5/22/2018*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F609-2013, Test Method for Using a Horizontal Pull Slipmeter (HPS)  
*Approved: 9/1/2013*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F628-2018, Specification for Acrylonitrile-Butadiene-Styrene (ABS) Schedule 40 Plastic Drain, Waste, and Vent Pipe With a Cellular Core  
*Approved: 12/18/2018*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F645-2018, Guide for Selection, Design, and Installation of Thermoplastic Water-Pressure Piping Systems  
*Approved: 1/1/2018*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F645-2018, Guide for Selection, Design, and Installation of Thermoplastic Water-Pressure Piping Systems  
*Approved: 3/1/2018*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F645-2018a, Guide for Selection, Design, and Installation of Thermoplastic Water-Pressure Piping Systems  
*Approved: 11/1/2018*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F655-2013, SPECIFICATION FOR TEST CARPETS AND PADS FOR VACUUM CLEANER TESTING  
*Approved: 06/01/2013*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F656-2017, Specification for Primers for Use in Solvent Cement Joints of Poly(Vinyl Chloride) (PVC) Plastic Pipe and Fittings  
*Approved: 5/31/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F659-2010 (R2018), Specification for Ski and Snowboard Goggles  
*Approved: 11/20/2018*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F670-2017, Specification for Tanks, 5 and 10-Gal (20 and 40-L) Lube Oil Dispensing  
*Approved: 5/23/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F681-1982 (R2018), Practice for Use of Branch Connections  
*Approved: 9/1/2018*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F682-1982A (R2018), Specification for Wrought Carbon Steel Sleeve-Type Pipe Couplings

Approved: 9/1/2018

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F683-2014, Practice for Selection and Application of Thermal Insulation for Piping and Machinery

Approved: 8/1/2014

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F697-2016, Standard Practice for Care and Use of Athletic Mouth Protectors

Approved: 3/15/2016

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F704-1981 (R2014), Practice for Selecting Bolting Lengths for Piping System Flanged Joints

Approved: 11/25/2014

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F704-1981 (R2018), Practice for Selecting Bolting Lengths for Piping System Flanged Joints

Approved: 9/1/2018

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F707/F707M-1981 (R2019), Specification for Modular Gauge Boards

Approved: 8/1/2019

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F708-1997 (R2018), Practice for Design and Installation of Rigid Pipe Hangers

Approved: 9/1/2018

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F714-2018 (R2019), Specification for Polyethylene (PE) Plastic Pipe (DR-PR) Based on Outside Diameter

Approved: 8/20/2019

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F718-2017, Specification for Shipbuilders and Marine Paints and Coatings Product/Procedure Data Sheet

Approved: 5/23/2017

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F721-2018, Specification for Gage Piping Assemblies

Approved: 5/22/2018

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F722-1982 (R2014), Specification for Welded Joints for Shipboard Piping Systems

Approved: 11/25/2014

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F722-2018, Specification for Welded Joints for Shipboard Piping Systems

Approved: 11/20/2018

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F760-1993 (R2017), Specification for Food Service Equipment Manuals

Approved: 11/21/2017

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F765-2017, Specification for Wildcats, Ship Anchor Chain

Approved: 5/23/2017

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F782-2001 (R2012), Specification for Doors, Furniture, Marine

Approved: 6/26/2012

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F783-1988 (R2018), Specification for Staple, Handgrab, Handle, and Stirrup Rung

Approved: 4/24/2018

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F803-2014, Specification for Eye Protectors for Selected Sports

Approved: 6/1/2014

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F820-2016, Test Method for Measuring Air Performance Characteristics of Central Vacuum Cleaning Systems

Approved: 10/18/2016

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F820-2017, Test Method for Measuring Air Performance Characteristics of Central Vacuum Cleaning Systems

Approved: 9/19/2017

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F820-2018, Test Method for Measuring Air Performance Characteristics of Central Vacuum Cleaning Systems

Approved: 10/23/2018

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F821-2001 (R2018), Specification for Domestic Use Doors and Frames, Steel, Interior, Marine

Approved: 4/24/2018

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F822-1993 (R2017), Specification for Chest of Drawers (Chiffonier), Steel, Marine

Approved: 1/1/2017

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F823-1993 (R2017), Specification for Desk, Log, Marine, Steel, with Cabinet

Approved: 1/1/2017

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F824-1993 (R2017), Specification for Tables, Mess, Marine, Steel

Approved: 1/1/2017

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F825-1993 (R2017), Specification for Drawers, Furniture, Marine, Steel

Approved: 1/1/2017

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F826-1994 (R2017), Specification for Tops, Furniture, Marine, Steel

Approved: 1/1/2017

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F841-84 (R2011), Specification for Thrusters, Tunnel, Permanently Installed In Marine Vessels

Approved: 5/24/2011

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F856-1997 (R2018), Practice for Mechanical Symbols, Shipboard--Heating, Ventilation, and Air Conditioning (HVAC)

Approved: 9/1/2018

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F857-2017, Specification for Hot Water and Chemical Sanitizing Commercial Dishwashing Machines, Stationary Rack Type

Approved: 12/26/2017

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F858-2018, Specification for Hot Water Sanitizing Commercial Dishwashing Machines, Single Tank, Conveyor Rack Type

Approved: 5/22/2018

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F859-2015, Specification for Heat-Sanitizing Commercial Dishwashing Machines, Multiple Tank, Conveyor Rack Type

Approved: 9/18/2015

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F860-2007 (R2019), Specification for Hot Water Sanitizing Commercial Dishwashing Machines, Multiple Tank, Rackless Conveyor Type

Approved: 12/18/2018

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F861-2014a, Specification for Commercial Dishwashing Racks

Approved: 12/15/2014

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F876-2017a, Specification for Crosslinked Polyethylene (PEX) Tubing

Approved: 8/22/2017

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F876-2019, Specification for Crosslinked Polyethylene (PEX) Tubing

Approved: 7/1/2019

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F876-2019, Specification for Crosslinked Polyethylene (PEX) Tubing  
*Approved: 8/20/2019*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F877-2017, Specification for Crosslinked Polyethylene (PEX) Hot- and Cold-Water Distribution Systems  
*Approved: 5/30/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F877-2018, Specification for Crosslinked Polyethylene (PEX) Hot- and Cold-Water Distribution Systems  
*Approved: 4/24/2018*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F877-2018a, Specification for Crosslinked Polyethylene (PEX) Hot- and Cold-Water Distribution Systems  
*Approved: 8/21/2018*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F884-2011 (R2016), Test Method for Motor Life Evaluation of a Built-In (Central Vacuum) Vacuum Cleaner  
*Approved: 10/18/2016*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F885-2017, Specification for Envelope Dimensions for Bronze Globe Valves NPS 1/4 to 2  
*Approved: 5/23/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F888-2011 (R2018), Test Method for Measuring Maximum Function Volume of the Primary Dirt Receptacle in a Vacuum Cleaner  
*Approved: 10/23/2018*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F891-2016, Specification for Coextruded Poly(Vinyl Chloride) (PVC) Plastic Pipe With a Cellular Core  
*Approved: 8/23/2016*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F894-2017, Specification for Polyethylene (PE) Large Diameter Profile Wall Sewer and Drain Pipe  
*Approved: 5/30/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F894-2019, Specification for Polyethylene (PE) Large Diameter Profile Wall Sewer and Drain Pipe  
*Approved: 3/5/2019*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F905-2017 (R2018), Practice for Qualification of Polyethylene Saddle-Fused Joints  
*Approved: 2/20/2018*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F905-2017, Practice for Qualification of Polyethylene Saddle-Fused Joints  
*Approved: 5/30/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F906-1985 (R2014), Specification for Letters and Numerals for Ships  
*Approved: 3/1/2014*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F910-2010 (R2015), Specification for Face Guards for Youth Baseball  
*Approved: 4/21/2015*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F913-2017, Specification for Thermoplastic Elastomeric Seals (Gaskets) for Joining Plastic Pipe  
*Approved: 5/31/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F917-2014, Specification for Commercial Food Waste Disposers  
*Approved: 6/17/2014*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F918-2015, Specification for Noncarbonated Mechanically Refrigerated Beverage Dispenser (Visible Product)  
*Approved: 8/24/2015*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F919-2015, Specification for Slicing Machines, Food, Electric  
*Approved: 9/18/2015*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F922-2011 (R2016), Test Method for Motor Life Evaluation of an Electric Motorized Nozzle  
*Approved: 10/18/2016*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F940-2000 (R2013), Practice for Quality Control Receipt Inspection Procedures for Protective Coatings (Paint), Used in Marine Construction and Shipbuilding  
*Approved: 10/29/2013*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F941-2000 (R2013), Practice for Inspection of Marine Surface Preparation and Coating Application  
*Approved: 10/29/2013*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F952-2012 (R2017), Specification for Mixing Machines, Food, Electric  
*Approved: 12/26/2017*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F953-2014, Specification for Commercial Dishwashing Machines (Stationary Rack, Dump Type) Chemical Sanitizing  
*Approved: 6/17/2014*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F956-1991 (R2018), Specification for Bell, Cast, Sound Signalling  
*Approved: 10/1/2018*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F957-1991 (R2018), Specification for Gong, Sound Signaling  
*Approved: 10/1/2018*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F963-2016, Consumer Safety Specification for Toy Safety  
*Approved: 8/1/2016*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F963-2016a, Consumer Safety Specification For Toy Safety  
*Approved: 8/1/2016*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F963-2016b, Consumer Safety Specification For Toy Safety  
*Approved: 8/1/2016*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F963-2016c, Consumer Safety Specification For Toy Safety  
*Approved: 8/1/2016*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F963-2016d, Consumer Safety Specification for Toy Safety  
*Approved: 8/1/2016*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F963-2016e, Consumer Safety Specification for Toy Safety  
*Approved: 8/1/2016*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F963-2016f, Consumer Safety Specification For Toy Safety  
*Approved: 8/1/2016*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F963-2016g, Consumer Safety Specification For Toy Safety  
*Approved: 8/1/2016*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F963-2016h, Consumer Safety Specification For Toy Safety  
*Approved: 8/1/2016*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F963-2016i, Consumer Safety Specification for Toy Safety  
*Approved: 8/1/2016*  
[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F963-2016j, Consumer Safety  
Specification For Toy Safety

Approved: 8/1/2016

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F963-2017, Consumer Safety  
Specification for Toy Safety

Approved: 5/23/2017

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F985-2018, Specification for Panama  
Canal Pilot Platform

Approved: 4/24/2018

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F986-1997 (R2018), Specification for  
Suction Strainer Boxes

Approved: 9/1/2018

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F987-2004 (R2017), Specification for  
Portable Intermediate Flush Deck Stanchion

Approved: 1/1/2017

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F992-2017, Specification for Valve Label  
Plates

Approved: 5/23/2017

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F993-2017, Specification for Valve  
Locking Devices

Approved: 5/23/2017

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F994-1986 (R2018), Specification for  
Design and Installation of Overboard  
Discharge Hull Penetration Connections

Approved: 3/20/2018

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM F998-2012 (R2018), Specification for  
Centrifugal Pump, Shipboard Use

Approved: 3/20/2018

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM WK57930-2019, Specification for  
Detonation Flame Arresters

Approved: 8/1/2019

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM WK61305-2019, Practice for Specimen  
Preparation and Mounting of Plastic  
Composites for Use as Deck Boards, Stair  
Treads, Guards or Handrails to Assess Surface  
Burning Characteristics

Approved: 9/1/2019

ASTM/ISO 55000-2016, Asset management -  
Overview, Principles and Terminology

Approved: 2/2/2016

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM/ISO 55001-2016, Asset management -  
Management systems - Requirements

Approved: 2/2/2016

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM/ISO 55002-2016, Asset management -  
Management systems - Guidelines for the  
application of ISO 55001

Approved: 2/2/2016

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM/ISO/IEC 17011-2004 (R2012), Conformity  
Assessment - General Requirements for  
Accreditation bodies Accrediting Conformity  
Assessment Bodies

Approved: 9/18/2012

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM/ISO/IEC 17020-1998 (R2012), General  
criteria for the operation of various types of  
bodies performing inspection

Approved: 9/18/2012

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM/ISO/IEC 17024-2005 (R2012), Conformity  
assessment - General requirements for  
bodies operating certification of persons

Approved: 9/18/2012

[cleonard@astm.org](mailto:cleonard@astm.org)

ASTM/ISO/IEC 17025-2005 (R2012), General  
Requirements for the Competence of Testing  
and Calibration Laboratories

Approved: 9/18/2012

[cleonard@astm.org](mailto:cleonard@astm.org)

IEEE/ASTM SI 10-2011, Standard for Use of the  
International System of Units (SI): The  
Modern Metric System

Approved: 3/1/2011

[cleonard@astm.org](mailto:cleonard@astm.org)

### **ATCC (AMERICAN TYPE CULTURE COLLECTION)**

ANSI/ATCC ASN-0001.1-2015, Standardization  
of in vitro Assays to Determine Anthrax Toxin  
Activities

Approved: 5/19/2015

[standards@atcc.org](mailto:standards@atcc.org)

ANSI/ATCC ASN-0002-2011, Authentication of  
Human Cell Lines: Standardization of STR  
Profiling

Approved: 1/25/2012

[standards@atcc.org](mailto:standards@atcc.org)

ANSI/ATCC ASN-0003-2015, Species-Level  
Identification of Animal Cells through  
Mitochondrial Cytochrome c Oxidase Subunit  
1 (CO1) DNA Barcodes

Approved: 12/22/2015

[standards@atcc.org](mailto:standards@atcc.org)

### **ATIS (ALLIANCE FOR TELECOMMUNICATIONS INDUSTRY SOLUTIONS)**

ANSI/ATIS 0100001-2004 (S2018), User Plane  
Security Guidelines and Requirements for ETS

Approved: 2/6/2018

[Kerriane Conn, \(202\) 434-8841, kconn@atis.org](mailto:Kerriane.Conn,(202)434-8841,kconn@atis.org)

ANSI/ATIS 0100005-2006 (S2016), Auditory  
Non-Intrusive Quality Estimation Plus  
(ANIQUE+) Perceptual Model for Non-  
Intrusive Estimation of Narrowband Speech  
Quality

Approved: 5/13/2016

[Kerriane Conn, \(202\) 434-8841, kconn@atis.org](mailto:Kerriane.Conn,(202)434-8841,kconn@atis.org)

ANSI/ATIS 0100008-2007 (S2017), Defects Per  
Million (DPM) Metric for Transaction Services  
such as VoIP

Approved: 3/10/2017

[Kerriane Conn, \(202\) 434-8841, kconn@atis.org](mailto:Kerriane.Conn,(202)434-8841,kconn@atis.org)

ANSI/ATIS 0100012-2019, Standard Outage  
Classification

Approved: 7/15/2019

[Kerriane Conn, \(202\) 434-8841, kconn@atis.org](mailto:Kerriane.Conn,(202)434-8841,kconn@atis.org)

ANSI/ATIS 0100017-2008 (S2018), Reduced  
Reference Video Calibration Estimation  
Method

Approved: 2/6/2018

[Kerriane Conn, \(202\) 434-8841, kconn@atis.org](mailto:Kerriane.Conn,(202)434-8841,kconn@atis.org)

ANSI/ATIS 0100020-2008 (S2018), Quantifying  
the Impact on IP Service Availability from  
Network Element Outages

Approved: 2/6/2018

[Kerriane Conn, \(202\) 434-8841, kconn@atis.org](mailto:Kerriane.Conn,(202)434-8841,kconn@atis.org)

ANSI/ATIS 0100022-2008 (S2018), Priority  
Classification Levels for Next Generation  
Networks

Approved: 2/6/2018

[Kerriane Conn, \(202\) 434-8841, kconn@atis.org](mailto:Kerriane.Conn,(202)434-8841,kconn@atis.org)

ANSI ATIS 0100024-2009 (R2014), User-  
Network Interface (UNI) Media Plane Security  
Standard for Evolving VoIP/Multimedia  
Networks

Approved: 7/17/2014

[Kerriane Conn, \(202\) 434-8841, kconn@atis.org](mailto:Kerriane.Conn,(202)434-8841,kconn@atis.org)

ANSI/ATIS 0100027-2010 (R2015), Availability -  
A Guide to Consistent Definitions

Approved: 1/8/2015

[Kerriane Conn, \(202\) 434-8841, kconn@atis.org](mailto:Kerriane.Conn,(202)434-8841,kconn@atis.org)

ANSI/ATIS 0100030-2012 (R2017), Mean Time  
between Outages - A Generalized Metric for  
Assessing Production Failure Rates in  
Telecommunications Network Elements

Approved: 3/9/2017

[Kerriane Conn, \(202\) 434-8841, kconn@atis.org](mailto:Kerriane.Conn,(202)434-8841,kconn@atis.org)

ANSI ATIS 0100036-2013 (R2018), Media Plane Performance Security Impairments for Evolving VoIP/Multimedia Networks

Approved: 1/24/2018

Kerriane Conn, (202) 434-8841, [kconn@atis.org](mailto:kconn@atis.org)

ANSI/ATIS 0100037-2013 (R2018), Impact Weighted MTBF - A Metric for Assessing Reliability of Hierarchical Systems

Approved: 1/24/2018

Kerriane Conn, (202) 434-8841, [kconn@atis.org](mailto:kconn@atis.org)

ANSI/ATIS 0100302-1989 (S2016), Digital Processing of Voice-Band Signals-Line Format for 32kbit/s Adaptive Differential Pulse-Code Modulation (ADPCM)

Approved: 5/13/2016

Kerriane Conn, (202) 434-8841, [kconn@atis.org](mailto:kconn@atis.org)

ANSI/ATIS 0100302.a-1992 (S2016), Supplement to ATIS-0100302.1989(R2006) - Digital Processing of Voice-Band Signals-Line Format for 32kbit/s Adaptive Differential Pulse-Code Modulation (ADPCM) (Channel-Control Templates and Robbed-bit Signaling Alarm Transmission)

Approved: 5/13/2016

Kerriane Conn, (202) 434-8841, [kconn@atis.org](mailto:kconn@atis.org)

ANSI/ATIS 0100312-1991 (S2016), Voice Packetization-Packetized Voice Protocol

Approved: 5/13/2016

Kerriane Conn, (202) 434-8841, [kconn@atis.org](mailto:kconn@atis.org)

ANSI/ATIS 0100501-1994 (S2018), Network Performance - Tandem Encoding Limits for 32 - kbit/s Adaptive Differential Pulse-Code Modulation (ADPCM)

Approved: 2/6/2018

Kerriane Conn, (202) 434-8841, [kconn@atis.org](mailto:kconn@atis.org)

ANSI/ATIS 0100502-2005 (R2015), System M-NTSC Television Signals - Network Interface Specifications and Performance Parameters

Approved: 1/8/2015

Kerriane Conn, (202) 434-8841, [kconn@atis.org](mailto:kconn@atis.org)

ANSI/ATIS 0100503-2002 (S2016), Network Performance Parameters for Dedicated Digital Services - Definitions and Measurements

Approved: 5/13/2016

Kerriane Conn, (202) 434-8841, [kconn@atis.org](mailto:kconn@atis.org)

ANSI/ATIS 0100504-1998 (S2016), Packet-Switched Data Communication Service - Performance Parameters, Measurements Methods, and Objectives

Approved: 5/13/2016

Kerriane Conn, (202) 434-8841, [kconn@atis.org](mailto:kconn@atis.org)

ANSI/ATIS 0100506-1997 (S2016), Network Performance - Switched Exchange Access Network Transmission Specifications

Approved: 5/13/2016

Kerriane Conn, (202) 434-8841, [kconn@atis.org](mailto:kconn@atis.org)

ANSI/ATIS 0100507-2002 (S2016), Network Performance Parameters for Circuit-Switched Digital Services - Definitions and Measurements

Approved: 5/13/2016

Kerriane Conn, (202) 434-8841, [kconn@atis.org](mailto:kconn@atis.org)

ANSI/ATIS 0100508-2003 (S2018), Loss Plan for Digital Networks

Approved: 2/6/2018

Kerriane Conn, (202) 434-8841, [kconn@atis.org](mailto:kconn@atis.org)

ANSI/ATIS 0100509-1995 (S2018), Packetized Circuit Multiplication Equipment - Interface Specification

Approved: 2/6/2018

Kerriane Conn, (202) 434-8841, [kconn@atis.org](mailto:kconn@atis.org)

ANSI/ATIS 0100510-1999 (S2018), Network Performance Parameters for Dedicated Digital Services for Rates Up to and Including DS3 - Specifications

Approved: 2/6/2018

Kerriane Conn, (202) 434-8841, [kconn@atis.org](mailto:kconn@atis.org)

ANSI/ATIS 0100511-2003 (S2018), B-ISDN ATM Layer Cell Transfer Performance

Approved: 2/6/2018

Kerriane Conn, (202) 434-8841, [kconn@atis.org](mailto:kconn@atis.org)

ANSI/ATIS 0100512-1994 (S2018), Network Performance - Point-to-Point Voice-Grade Special Access Network Voiceband Data Transmission Objectives

Approved: 2/6/2018

Kerriane Conn, (202) 434-8841, [kconn@atis.org](mailto:kconn@atis.org)

ANSI/ATIS 0100513-2003 (S2018), Frame Relay Data Communication Service - Access, User Information Transfer, Disengagement, and Availability Performance Parameters

Approved: 2/6/2018

Kerriane Conn, (202) 434-8841, [kconn@atis.org](mailto:kconn@atis.org)

ANSI ATIS 0100514-2009 (R2014), Network Performance Parameters and Objectives for Dedicated Digital Services - SONET Bit Rates

Approved: 7/15/2014

Kerriane Conn, (202) 434-8841, [kconn@atis.org](mailto:kconn@atis.org)

ANSI/ATIS 0100517-1995 (S2016), Performance Parameters and Objectives for Integrated Services Digital Network

Approved: 5/13/2016

Kerriane Conn, (202) 434-8841, [kconn@atis.org](mailto:kconn@atis.org)

ANSI/ATIS 0100518-1998 (S2018), Objective Measurement of Telephone Band Speech Quality Using Measuring Normalizing Blocks (MNBs)

Approved: 2/6/2018

Kerriane Conn, (202) 434-8841, [kconn@atis.org](mailto:kconn@atis.org)

ANSI/ATIS 0100519-1999 (S2018), Specifications for Transport of Generic Packets (including MPEG-2) Transport Packets) Over the DS Hierarchy

Approved: 2/6/2018

Kerriane Conn, (202) 434-8841, [kconn@atis.org](mailto:kconn@atis.org)

ANSI/ATIS 0100521-2005 (R2015), Packet Loss Concealment for Use with ITU-T Recommendation G.711

Approved: 2/3/2015

Kerriane Conn, (202) 434-8841, [kconn@atis.org](mailto:kconn@atis.org)

ANSI ATIS 0100522-2000 (R2014), Quality of Service for Business Multimedia Conferencing

Approved: 7/15/2014

Kerriane Conn, (202) 434-8841, [kconn@atis.org](mailto:kconn@atis.org)

ANSI/ATIS 0100523-2019, ATIS Telecom Glossary

Approved: 7/19/2019

Kerriane Conn, (202) 434-8841, [kconn@atis.org](mailto:kconn@atis.org)

ANSI/ATIS 0100524-2004 (S2018), Reliability-related Metrics and Terminology for Network Elements in Evolving Communications Networks

Approved: 2/6/2018

Kerriane Conn, (202) 434-8841, [kconn@atis.org](mailto:kconn@atis.org)

ANSI/ATIS 0100801.01-1995 (S2016), Digital Transport of Video Teleconferencing/Video Telephony Signals - Video Test Scenes for Subjective and Objective Performance Assessment

Approved: 5/13/2016

Kerriane Conn, (202) 434-8841, [kconn@atis.org](mailto:kconn@atis.org)

ANSI/ATIS 0100801.02-1996 (S2016), Digital Transport of Video Teleconferencing/Video Telephony Signals - Performance Terms, Definitions and Examples

Approved: 5/13/2016

Kerriane Conn, (202) 434-8841, [kconn@atis.org](mailto:kconn@atis.org)

ANSI/ATIS 0100801.03-2003 (S2018), Digital Transport of One-Way Video Signals - Parameters for Objective Performance Assessment

Approved: 2/6/2018

Kerriane Conn, (202) 434-8841, [kconn@atis.org](mailto:kconn@atis.org)

ANSI/ATIS 0100801.04-2005 (R2015), Multimedia Communications Delay, Synchronization, and Frame Rate

Approved: 1/8/2015

Kerriane Conn, (202) 434-8841, [kconn@atis.org](mailto:kconn@atis.org)

ANSI/ATIS 0100802.01-1996 (S2016), North American Adaptation for Domestic-International Interfaces of ETSI 300 174 Digital Component Television Signals - Interface and Coding Specifications at DS-3  
*Approved: 5/13/2016*

*Kerriane Conn, (202) 434-8841, kconn@atis.org*

ANSI/ATIS 0100803-1998 (S2018), Overview and Reference for GSTN Multimedia Terminals  
*Approved: 2/6/2018*

*Kerriane Conn, (202) 434-8841, kconn@atis.org*

ANSI/ATIS 0300002-2018, XML Schema Interface for POTS Service Test  
*Approved: 6/13/2018*

*Kerriane Conn, (202) 434-8841, kconn@atis.org*

ANSI/ATIS 0300003-2017, XML Schema Interface for Fault Management (Trouble Administration)  
*Approved: 1/3/2017*

*Kerriane Conn, (202) 434-8841, kconn@atis.org*

ANSI/ATIS 0300007-2007 (S2017), Identification of Physical Network Resources  
*Approved: 3/27/2017*

*Kerriane Conn, (202) 434-8841, kconn@atis.org*

ANSI/ATIS 0300074-2015, Guidelines and Requirements for Security Management Systems  
*Approved: 1/7/2015*

*Kerriane Conn, (202) 434-8841, kconn@atis.org*

ANSI/ATIS 0300075-2018, Usage Data Management Architecture and Protocols Requirements for Packet-Based Application Services  
*Approved: 3/29/2018*

*Kerriane Conn, (202) 434-8841, kconn@atis.org*

ANSI/ATIS 0300091-2018, Structure for Global Serialization of Information and Communications Technology (ICT) Network Infrastructure Equipment  
*Approved: 3/29/2018*

*Kerriane Conn, (202) 434-8841, kconn@atis.org*

ANSI/ATIS 0300094-2019, Trouble Type Codes in Support of ATIS Trouble Administration Standards  
*Approved: 7/31/2019*

*Kerriane Conn, (202) 434-8841, kconn@atis.org*

ANSI/ATIS 0300097-2017, Structure for the Identification of Communications Connections for Information Exchange  
*Approved: 6/15/2017*

*Kerriane Conn, (202) 434-8841, kconn@atis.org*

ANSI/ATIS 0300202-2015, Internetwork Operations - Guidelines for Network Management of the Public Telecommunications Networks under Disaster Conditions  
*Approved: 6/17/2015*

*Kerriane Conn, (202) 434-8841, kconn@atis.org*

ANSI ATIS 0300204-2008 (S2018), Operations, Administration, Maintenance, and Provisioning (OAM&P) Lower-Layer Protocols for Telecommunications Management Network (TMN) Interfaces, Q and X Interfaces  
*Approved: 5/7/2018*

*Kerriane Conn, (202) 434-8841, kconn@atis.org*

ANSI/ATIS 0300206-2001 (S2016), Digital Exchanges and PBXs - Digital Circuit Loopback Test Line with N [infinity] DSO Capability  
*Approved: 9/16/2016*

*Kerriane Conn, (202) 434-8841, kconn@atis.org*

ANSI/ATIS 0300207-2000 (S2015), Operations, Administration, Maintenance, and Provisioning (OAM&P) - Terminating Test Line Access and Capabilities  
*Approved: 12/11/2015*

*Kerriane Conn, (202) 434-8841, kconn@atis.org*

ANSI ATIS 0300208-2013 (R2018), Operations, Administration, Maintenance, and Provisioning (OAM&P) Upper-Layer Protocols for Telecommunications Management Network (TMN) Interfaces, Q and X Interfaces  
*Approved: 5/7/2018*

*Kerriane Conn, (202) 434-8841, kconn@atis.org*

ANSI/ATIS 0300209-2018, Operations, Administration, Maintenance, and Provisioning (OAM&P) Network Tones and Announcements  
*Approved: 6/13/2018*

*Kerriane Conn, (202) 434-8841, kconn@atis.org*

ANSI/ATIS 0300210-2015, OAM&P - Principles of Functions, Architectures, and Protocol for Telecommunications Management Network (TMN) Interfaces and enhanced Telecom Operations Map (eTOM)  
*Approved: 1/7/2015*

*Kerriane Conn, (202) 434-8841, kconn@atis.org*

ANSI/ATIS 0300211-2018, Information Interchange -- Structure and Coded Representation of National Security and Emergency Preparedness (NS/EP) Telecommunications Service Priority (TSP) Codes for the North American Telecommunications System  
*Approved: 6/12/2018*

*Kerriane Conn, (202) 434-8841, kconn@atis.org*

ANSI/ATIS 0300212-2015, Enhanced Telecommunications Charge Card Physical Characteristics and Numbering Structure  
*Approved: 10/21/2015*

*Kerriane Conn, (202) 434-8841, kconn@atis.org*

ANSI ATIS 0300213-2014, Coded Identification of Equipment Entities of the North American Telecommunications System for Information Exchange  
*Approved: 5/13/2014*

*Kerriane Conn, (202) 434-8841, kconn@atis.org*

ANSI ATIS 0300216-2013 (R2018), Integrated Services Digital Network (ISDN) Management – Basic Rate Physical Layer  
*Approved: 11/29/2018*

*Kerriane Conn, (202) 434-8841, kconn@atis.org*

ANSI ATIS 0300217-2013 (R2018), Integrated Service Digital Network (ISDN) Management – Primary Rate Physical Layer  
*Approved: 8/23/2018*

*Kerriane Conn, (202) 434-8841, kconn@atis.org*

ANSI/ATIS 0300218-2019, ISDN Management - Data-Link and Network Layers  
*Approved: 7/31/2019*

*Kerriane Conn, (202) 434-8841, kconn@atis.org*

ANSI ATIS 0300219-2013 (R2019), Integrated Services Digital Network (ISDN) Management – Overview and Principles  
*Approved: 3/12/2019*

*Kerriane Conn, (202) 434-8841, kconn@atis.org*

ANSI/ATIS 0300220-2018, Structure for the Representation of the Communications Industry Manufacturers, Suppliers, and Related Service Companies for Information Exchange  
*Approved: 11/29/2018*

*Kerriane Conn, (202) 434-8841, kconn@atis.org*

ANSI/ATIS 0300221-1995 (S2015), Operations, Administration, Maintenance, and Provisioning (OAM&P) - In-Service, Nonintrusive Measurement Device (INMD) - Voice Service Measurements  
*Approved: 12/11/2015*

*Kerriane Conn, (202) 434-8841, kconn@atis.org*

ANSI/ATIS 0300223-2014, Structure and Representation of Network Channel (NC) and Network Channel Interface (NCI) Codes for Information Exchange  
*Approved: 12/23/2014*

*Kerriane Conn, (202) 434-8841, kconn@atis.org*

ANSI/ATIS 0300226-2001 (S2016), Operations, Administration, Maintenance, and Provisioning (OAM&P) - Management of Functions for Signalling System No. 7 (SS7) Network Interconnections  
*Approved: 9/16/2016*

*Kerriane Conn, (202) 434-8841, kconn@atis.org*

ANSI/ATIS 0300230-2015, Telecommunications Charge Card and Billed Number Screening Validation Message Components  
*Approved: 10/21/2015*

*Kerriane Conn, (202) 434-8841, kconn@atis.org*

ANSI/ATIS 0300231-2019, Digital Hierarchy - Layer 1 in-Service Digital Transmission Performance Monitoring  
*Approved: 7/31/2019*

*Kerriane Conn, (202) 434-8841, kconn@atis.org*

ANSI/ATIS 0300231.01-2019, Digital Subscriber Line (DSL) – Layer 1 In-Service Digital Transmission Performance Monitoring  
*Approved: 7/31/2019*

*Kerriane Conn, (202) 434-8841, kconn@atis.org*

ANSI/ATIS 0300231.02-2019, DS1 – Layer 1 In-Service Digital Transmission Performance Monitoring  
*Approved: 7/31/2019*

*Kerriane Conn, (202) 434-8841, kconn@atis.org*

ANSI/ATIS 0300231.03-2019, DS3 - Layer 1 In-Service Digital Transmission Performance Monitoring  
*Approved: 7/31/2019*

*Kerriane Conn, (202) 434-8841, kconn@atis.org*

ANSI/ATIS 0300231.04-2019, SONET-- Layer 1 In-Service Digital Transmission Performance Monitoring  
*Approved: 7/31/2019*

*Kerriane Conn, (202) 434-8841, kconn@atis.org*

ANSI/ATIS 0300232-2012 (R2017), Human-to-Machine Interface Specification for Telecommunications Management  
*Approved: 5/11/2017*

*Kerriane Conn, (202) 434-8841, kconn@atis.org*

ANSI/ATIS 0300234-2000 (S2015), Signalling System Number 7 (SS7) - MTP Levels 2 and 3 Compatibility Testing  
*Approved: 12/11/2015*

*Kerriane Conn, (202) 434-8841, kconn@atis.org*

ANSI/ATIS 0300235-2000 (S2015), Signalling System 7 (SS7) - SCCP Class 0 Compatibility Testing  
*Approved: 12/11/2015*

*Kerriane Conn, (202) 434-8841, kconn@atis.org*

ANSI/ATIS 0300236-2005 (S2016), Signaling System 7 (SS7) - ISDN User Part Compatibility Testing

*Approved: 9/16/2016*

*Kerriane Conn, (202) 434-8841, kconn@atis.org*

ANSI/ATIS 0300239-1994 (S2015), Integrated Services Digital Network (ISDN) Management - User-Network Interface Protocol Profile  
*Approved: 12/11/2015*

*Kerriane Conn, (202) 434-8841, kconn@atis.org*

ANSI ATIS 0300240-2014, Operations, Administration, Maintenance and Provisioning (OAM&P) - Generic Network Information Model for Interfaces between Operations Systems and Network Elements  
*Approved: 3/7/2014*

*Kerriane Conn, (202) 434-8841, kconn@atis.org*

ANSI/ATIS 0300241-1994 (S2015), Integrated Services Digital Network (ISDN) Management - Service Profile Verification and Service Profile Management - ISDN Interface Management Services  
*Approved: 12/15/2015*

*Kerriane Conn, (202) 434-8841, kconn@atis.org*

ANSI/ATIS 0300245-2019, Directory Services for Telecommunications Management Network (TMN) and Synchronous Optical Network (SONET)

*Approved: 7/31/2019*

*Kerriane Conn, (202) 434-8841, kconn@atis.org*

ANSI/ATIS 0300247-2018, Operations, Administration, Maintenance, and Provisioning (OAM&P) – Performance Management Functional Area Services and Information Model for Interfaces between Operations Systems and Networks  
*Approved: 8/22/2018*

*Kerriane Conn, (202) 434-8841, kconn@atis.org*

ANSI/ATIS 0300251-2017, Codes for Identification of Service Providers for Information Exchange  
*Approved: 5/11/2017*

*Kerriane Conn, (202) 434-8841, kconn@atis.org*

ANSI/ATIS 0300253-2016, Structure for the Representation of Location Entities for Information Exchange  
*Approved: 12/2/2016*

*Kerriane Conn, (202) 434-8841, kconn@atis.org*

ANSI ATIS 0300255-2008 (S2018), In-Service, Non-Intrusive Measurement Device (INMD) Methodology for Applying INMD Measurements to Customer Opinion Models  
*Approved: 7/2/2018*

*Kerriane Conn, (202) 434-8841, kconn@atis.org*

ANSI ATIS 0300260-1998 (S2018), Operations, Administration, Maintenance, and Provisioning (OAM&P) - Extension to Generic Network Information Model for Interfaces between a Service Provider Administrative System and Network Elements for Lawfully Authorized Electronic Surveillance  
*Approved: 8/31/2018*

*Kerriane Conn, (202) 434-8841, kconn@atis.org*

ANSI/ATIS 0300264-2010 (R2015), Alarm Surveillance in a Telecommunications Management Network (TMN)  
*Approved: 12/11/2015*

*Kerriane Conn, (202) 434-8841, kconn@atis.org*

ANSI/ATIS 0300269-2006 (S2016), Structure and Representation of Trace Message Formats for Information Exchange  
*Approved: 11/22/2016*

*Kerriane Conn, (202) 434-8841, kconn@atis.org*

ANSI/ATIS 0300276-2008 (R2017), Operations, Administration, Maintenance, and Provisioning Security Requirements for the Public Telecommunications Network: A Baseline of Security Requirements for the Management Plane  
*Approved: 2/14/2017*

*Kerriane Conn, (202) 434-8841, kconn@atis.org*

ANSI/ATIS 0500019-2010 (R2015), Request for Assistance Interface (RFAI) Specification  
*Approved: 3/13/2015*

*Kerriane Conn, (202) 434-8841, kconn@atis.org*

ANSI/ATIS 0600003-2018, Battery Enclosure and Rooms/Areas  
*Approved: 5/7/2018*

*Kerriane Conn, (202) 434-8841, kconn@atis.org*

ANSI/ATIS 0600004-2017, Equipment Surface Temperature  
*Approved: 11/17/2017*

*Kerriane Conn, (202) 434-8841, kconn@atis.org*

ANSI/ATIS 0600005-2017, Acoustic Measurement  
*Approved: 12/21/2017*

*Kerriane Conn, (202) 434-8841, kconn@atis.org*

ANSI ATIS 0600010-2014, Temperature, Humidity, & Altitude Standards  
*Approved: 1/21/2014*

*Kerriane Conn, (202) 434-8841, kconn@atis.org*

ANSI/ATIS 0600010.01-2017, Temperature, Humidity, Altitude, and Salt Fog Requirements for Network Telecommunications Equipment Utilized in Outside Plant Environments  
*Approved: 1/30/2017*

*Kerriane Conn, (202) 434-8841, kconn@atis.org*

ANSI/ATIS 0600010.02-2012 (R2017), Equipment Handling, Transportation Vibration, and Rail Car Shock Requirements for Network Communications Equipment  
Approved: 3/9/2017

*Kerriane Conn, (202) 434-8841, kconn@atis.org*

ANSI/ATIS 0600010.03-2011 (R2016), Heat Dissipation Requirements for Network Telecommunications Equipment  
Approved: 7/22/2016

*Kerriane Conn, (202) 434-8841, kconn@atis.org*

ANSI/ATIS 0600010.04-2017, Operational Vibration Requirements for Communications Equipment  
Approved: 6/15/2017

*Kerriane Conn, (202) 434-8841, kconn@atis.org*

ANSI/ATIS 0600015-2018, Energy Efficiency for Telecommunication Equipment: Methodology for Measurement and Reporting General Requirements  
Approved: 5/21/2018

*Kerriane Conn, (202) 434-8841, kconn@atis.org*

ANSI/ATIS 0600015.01-2014, Energy Efficiency for Telecommunication Equipment: Methodology for Measurement and Reporting -- Server Requirements  
Approved: 11/17/2014

*Kerriane Conn, (202) 434-8841, kconn@atis.org*

ANSI/ATIS 0600015.02-2016, Energy Efficiency for Telecommunication Equipment: Methodology for Measurement and Reporting - Transport and Optical Access Requirements  
Approved: 3/21/2016

*Kerriane Conn, (202) 434-8841, kconn@atis.org*

ANSI/ATIS 0600015.03-2016, Energy Efficiency for Telecommunication Equipment: Methodology for Measurement and Reporting for Router and Ethernet Switch Products  
Approved: 8/30/2016

*Kerriane Conn, (202) 434-8841, kconn@atis.org*

ANSI/ATIS 0600015.04-2017, Energy Efficiency for Telecommunication Equipment: Methodology for Measurement and Reporting DC Power Plant - Rectifier Requirements  
Approved: 12/14/2017

*Kerriane Conn, (202) 434-8841, kconn@atis.org*

ANSI/ATIS 0600015.07-2018, Energy Efficiency for Telecommunication Equipment: Methodology for Measurement and Reporting – Wireline Access, Asymmetric Broadband Equipment  
Approved: 8/22/2018

*Kerriane Conn, (202) 434-8841, kconn@atis.org*

ANSI/ATIS 0600015.08-2014, Small Networking Devices Efficiency Standard  
Approved: 10/27/2014

*Kerriane Conn, (202) 434-8841, kconn@atis.org*

ANSI/ATIS 0600015.09-2015, Energy Efficiency for Telecommunication Equipment: Methodology for Measurement and Reporting of Base Station Metrics  
Approved: 7/8/2015

*Kerriane Conn, (202) 434-8841, kconn@atis.org*

ANSI/ATIS 0600015.10-2015, Energy Efficiency for Telecommunication Equipment: Methodology for Measurement and Reporting DC Power Plant - Inverter Requirements  
Approved: 7/9/2015

*Kerriane Conn, (202) 434-8841, kconn@atis.org*

ANSI/ATIS 0600015.11-2016, Energy Efficiency for Telecommunications Equipment: Methodology for Measurement and Reporting for Power Systems, DC/DC Converters  
Approved: 3/21/2016

*Kerriane Conn, (202) 434-8841, kconn@atis.org*

ANSI/ATIS 0600015.12-2016, Energy Efficiency for Telecommunication Equipment: Methodology for Measurement and Reporting Power Systems - Uninterruptible Power Supply Requirements  
Approved: 5/27/2016

*Kerriane Conn, (202) 434-8841, kconn@atis.org*

ANSI/ATIS 0600015.13-2017, Energy Efficiency for Telecommunication Equipment: Methodology for Measurement and Reporting for 802.11xx Wi-Fi Access Points  
Approved: 1/19/2017

*Kerriane Conn, (202) 434-8841, kconn@atis.org*

ANSI/ATIS 0600016-2018, Remote End POTS Splitter Requirements  
Approved: 1/17/2018

*Kerriane Conn, (202) 434-8841, kconn@atis.org*

ANSI ATIS 0600017-2014, Non-Halogenated DC Power Wire and Cable for Telecommunications Power Systems  
Approved: 6/2/2014

*Kerriane Conn, (202) 434-8841, kconn@atis.org*

ANSI ATIS 0600019-2014, Test Requirements for Pb-Free Subassembly Modules  
Approved: 7/15/2014

*Kerriane Conn, (202) 434-8841, kconn@atis.org*

ANSI ATIS 0600020-2014, Test Requirements for Pb-Free Circuit Packs  
Approved: 7/15/2014

*Kerriane Conn, (202) 434-8841, kconn@atis.org*

ANSI/ATIS 0600026-2010 (R2015), Network End POTS Splitter Requirements  
Approved: 2/11/2015

*Kerriane Conn, (202) 434-8841, kconn@atis.org*

ANSI/ATIS 0600028-2016, DC Power Wire and Cable for Telecommunications Power Systems - for XHHW and DLO/Halogenated RHW-RHH Cable Types  
Approved: 5/27/2016

*Kerriane Conn, (202) 434-8841, kconn@atis.org*

ANSI ATIS 0600029-2013, Standard for Irreversible Compression Lugs, Inline Splices, and Taps  
Approved: 4/8/2013

*Kerriane Conn, (202) 434-8841, kconn@atis.org*

ANSI/ATIS 0600030-2016, Line Powering of Telecommunications Equipment on Outside Plant (OSP) Twisted Copper Pair Loops  
Approved: 11/7/2016

*Kerriane Conn, (202) 434-8841, kconn@atis.org*

ANSI ATIS 0600031-2014, (Pumped) Distributed Refrigerant Cooling - Standardized Infrastructure  
Approved: 1/21/2014

*Kerriane Conn, (202) 434-8841, kconn@atis.org*

ANSI/ATIS 0600035-2018, Recommended Maintenance Routines and Frequencies for Central Office Backup Power  
Approved: 7/27/2018

*Kerriane Conn, (202) 434-8841, kconn@atis.org*

ANSI/ATIS 0600107-2002 (S2015), Digital Hierarchy - Formats Specifications  
Approved: 3/17/2015

*Kerriane Conn, (202) 434-8841, kconn@atis.org*

ANSI/ATIS 0600107.a-2005 (S2015), Digital Hierarchy - Formats Specification (Virtual Concatenation and LCAS) (Supplement to ATIS-0600107)  
Approved: 3/12/2015

*Kerriane Conn, (202) 434-8841, kconn@atis.org*

ANSI/ATIS 0600307-2018, Fire Resistance Criteria Ignitability Requirements for Equipment Assemblies, Ancillary Non-Metallic Apparatus, and Fire Spread Requirements for Wire and Cable  
Approved: 5/7/2018

*Kerriane Conn, (202) 434-8841, kconn@atis.org*

ANSI ATIS 0600308-2008 (S2018), Central Office Equipment - Electrostatic Discharge Immunity Requirements  
Approved: 5/31/2018

*Kerriane Conn, (202) 434-8841, kconn@atis.org*

ANSI/ATIS 0600311-2017, DC Power Systems - Telecommunications Environment Protection  
*Approved: 1/6/2017*

*Kerrienne Conn, (202) 434-8841, kconn@atis.org*

ANSI/ATIS 0600313-2018, Electrical Protection for Telecommunications Central Offices and Similar Type Facilities  
*Approved: 12/31/2018*

*Kerrienne Conn, (202) 434-8841, kconn@atis.org*

ANSI/ATIS 0600315-2018, Voltage Levels for DC-Powered Equipment Used in the Telecommunications Environment  
*Approved: 1/24/2018*

*Kerrienne Conn, (202) 434-8841, kconn@atis.org*

ANSI/ATIS 0600315.01-2015, Voltage Levels for 380V DC-Powered Equipment Used in the Telecommunications Environment  
*Approved: 2/13/2015*

*Kerrienne Conn, (202) 434-8841, kconn@atis.org*

ANSI/ATIS 0600316-2018, Electrical Protection of Telecommunications Outside Plant  
*Approved: 12/31/2018*

*Kerrienne Conn, (202) 434-8841, kconn@atis.org*

ANSI/ATIS 0600317-1993 (S2018), Uniform Language for Accessing Power Plants - Human-Machine Language  
*Approved: 1/24/2018*

*Kerrienne Conn, (202) 434-8841, kconn@atis.org*

ANSI/ATIS 0600318-2016, Electrical Protection Applied to Telecommunications Network Plant at Entrances to Customer Structures or Buildings  
*Approved: 3/21/2016*

*Kerrienne Conn, (202) 434-8841, kconn@atis.org*

ANSI ATIS 0600319-2014, Equipment Assemblies - Fire Propagation Risk Assessment Criteria  
*Approved: 4/15/2014*

*Kerrienne Conn, (202) 434-8841, kconn@atis.org*

ANSI/ATIS 0600320-2015, Above-Baseline Electrical Protection for Designated Telecommunications Central Offices and Similar-Type Facilities Against High-Altitude Electromagnetic Pulse (HEMP)  
*Approved: 8/27/2015*

*Kerrienne Conn, (202) 434-8841, kconn@atis.org*

ANSI/ATIS 0600321-2015, Electrical Protection for Network Operator-Type Equipment Positions  
*Approved: 6/2/2015*

*Kerrienne Conn, (202) 434-8841, kconn@atis.org*

ANSI/ATIS 0600328-2018, Protection of Telecommunications Links from Physical Stress and Radiation Effects and Associated Requirements for DC Power Systems (A Baseline Standard)  
*Approved: 1/24/2018*

*Kerrienne Conn, (202) 434-8841, kconn@atis.org*

ANSI ATIS 0600329-2014, Network Equipment - Earthquake Resistance  
*Approved: 2/25/2014*

*Kerrienne Conn, (202) 434-8841, kconn@atis.org*

ANSI/ATIS 0600330-2018, Valve-Regulated Lead-Acid Batteries Used in the Telecommunications Environment  
*Approved: 1/24/2018*

*Kerrienne Conn, (202) 434-8841, kconn@atis.org*

ANSI/ATIS 0600331-2015, Description of Above-Baseline Physical Threats to Telecommunications Links  
*Approved: 9/25/2015*

*Kerrienne Conn, (202) 434-8841, kconn@atis.org*

ANSI/ATIS 0600332-2015, Electrical Protection of Network-Powered Broadband Facilities  
*Approved: 10/30/2015*

*Kerrienne Conn, (202) 434-8841, kconn@atis.org*

ANSI/ATIS 0600333-2013 (R2018), Grounding and Bonding of Telecommunications Equipment  
*Approved: 7/27/2018*

*Kerrienne Conn, (202) 434-8841, kconn@atis.org*

ANSI ATIS 0600334-2013, Electrical Protection of Communications Towers and Associated Structures  
*Approved: 5/28/2013*

*Kerrienne Conn, (202) 434-8841, kconn@atis.org*

ANSI/ATIS 0600336-2015, Design Requirements for Universal Cabinets and Framework  
*Approved: 2/13/2015*

*Kerrienne Conn, (202) 434-8841, kconn@atis.org*

ANSI/ATIS 0600337-2016, Requirements for Maximum Voltage, Current, and Power Levels in Network-Powered Transport Systems  
*Approved: 3/21/2016*

*Kerrienne Conn, (202) 434-8841, kconn@atis.org*

ANSI/ATIS 0600338-2016, Electrical Coordination of Primary and Secondary Surge Protection for Use in Telecommunications Circuits  
*Approved: 4/12/2016*

*Kerrienne Conn, (202) 434-8841, kconn@atis.org*

ANSI/ATIS 0600401-2006 (S2018), Network to Customer Installation Interfaces - Analog Voicegrade Switched Access Lines Using Loop-Start and Ground-Start Signaling  
*Approved: 12/31/2018*

*Kerrienne Conn, (202) 434-8841, kconn@atis.org*

ANSI/ATIS 0600401.01-2000 (S2015), Network to Customer Installation Interfaces - Analog Voicegrade Switched Access Lines Using Loop-Start or Ground Start Signaling With Line-Side Answer Supervision Feature  
*Approved: 3/12/2015*

*Kerrienne Conn, (202) 434-8841, kconn@atis.org*

ANSI/ATIS 0600401.02-2000 (S2015), Network-to-Customer Installation Interfaces - Analog Voicegrade Switched Access Lines with Distinctive Ringing Features  
*Approved: 3/12/2015*

*Kerrienne Conn, (202) 434-8841, kconn@atis.org*

ANSI/ATIS 0600401.03-1998 (S2015), Network-to-Customer Installation Interfaces - Analog Voicegrade Switched Access Lines with Calling Number Delivery, Calling Name Delivery, or Visual Message-Waiting Indicator Features  
*Approved: 3/12/2015*

*Kerrienne Conn, (202) 434-8841, kconn@atis.org*

ANSI/ATIS 0600401.04-2000 (S2015), Network and Customer Installation Interfaces - Analog Voicegrade Switched Access Lines with the Call Waiting, Distinctive Call Waiting, or Calling Identity Delivery on Call Waiting Feature  
*Approved: 3/12/2015*

*Kerrienne Conn, (202) 434-8841, kconn@atis.org*

ANSI/ATIS 0600401.05-2000 (S2015), Network-to-Customer Installation Interfaces - Analog Voicegrade Switched Access Lines with Network-Implemented Coin-Operated Payphone Feature  
*Approved: 3/12/2015*

*Kerrienne Conn, (202) 434-8841, kconn@atis.org*

ANSI/ATIS 0600403-1999 (S2015), Network and Customer Installation Interfaces - DS1 Electrical Interfaces  
*Approved: 3/17/2015*

*Kerrienne Conn, (202) 434-8841, kconn@atis.org*

ANSI/ATIS 0600403.01-1999 (S2015), Network and Customer Installation Interfaces - (ISDN) Primary Rate Layer 1 Electrical Interfaces Specification  
*Approved: 3/12/2015*

*Kerrienne Conn, (202) 434-8841, kconn@atis.org*

ANSI/ATIS 0600403.02-1999 (S2015), Network and Customer Installation Interfaces - DS1 - Robbed-Bit Signaling State Definitions  
*Approved: 3/12/2015*  
*Kerrienne Conn, (202) 434-8841, kconn@atis.org*

ANSI/ATIS 0600403.02.a-2001 (S2015), Supplement to ATIS-0600403.02.1999(R2005) - Network and Customer Installation Interfaces - DS1 Robbed-bit Signaling State Definitions  
*Approved: 3/12/2015*  
*Kerrienne Conn, (202) 434-8841, kconn@atis.org*

ANSI/ATIS 0600403.03-2002 (S2015), Network and Customer Installation Interfaces - DS1 Physical Layer Interface and Mapping Specifications for ATM Applications  
*Approved: 3/10/2015*  
*Kerrienne Conn, (202) 434-8841, kconn@atis.org*

ANSI/ATIS 0600403.a-2001 (S2015), Supplement to ATIS-0600403.1999(R2007) - Network to Customer Installation Interfaces - DS1 Electrical Interfaces  
*Approved: 3/12/2015*  
*Kerrienne Conn, (202) 434-8841, kconn@atis.org*

ANSI/ATIS 0600403.b-2002 (S2015), Supplement to ATIS-0600403.1999(R2007) - Network and Customer Installation Interfaces - DS1 Electrical Interface  
*Approved: 3/11/2015*  
*Kerrienne Conn, (202) 434-8841, kconn@atis.org*

ANSI/ATIS 0600404-2002 (S2015), Network and Customer Installation Interfaces - DS3 and Metallic Interface Specification  
*Approved: 3/17/2015*  
*Kerrienne Conn, (202) 434-8841, kconn@atis.org*

ANSI/ATIS 0600404.01-2002 (S2015), Network and Customer Installation Interfaces - DS3 Physical Layer Interface and Mapping Specifications for ATM Applications  
*Approved: 3/10/2015*  
*Kerrienne Conn, (202) 434-8841, kconn@atis.org*

ANSI/ATIS 0600404.a-2005 (S2015), Supplement to T1.404-2004, Network and Customer Installation Interfaces - DS3 Metallic Interface Specification  
*Approved: 3/11/2015*  
*Kerrienne Conn, (202) 434-8841, kconn@atis.org*

ANSI/ATIS 0600405-2002 (S2015), Network and Customer Installation Interfaces - Direct Inward Dialing Analog Voicegrade Switched Access Using Loop Reverse-Battery Signaling  
*Approved: 3/9/2015*  
*Kerrienne Conn, (202) 434-8841, kconn@atis.org*

ANSI/ATIS 0600407-2002 (S2015), Network-to-Customer Installation Interfaces - Analog Voicegrade Special Access Lines Using Customer-Installation-Provided Loop-Start Supervision  
*Approved: 3/9/2015*  
*Kerrienne Conn, (202) 434-8841, kconn@atis.org*

ANSI/ATIS 0600409-2002 (S2015), Network and Customer Installation Interfaces - Analog Voicegrade Special Access Lines Using E&M Signaling  
*Approved: 3/9/2015*  
*Kerrienne Conn, (202) 434-8841, kconn@atis.org*

ANSI/ATIS 0600410-2001 (S2015), Network-to-Customer Electrical Interface - Digital Data at 64 kbit/s and Subrates  
*Approved: 3/9/2015*  
*Kerrienne Conn, (202) 434-8841, kconn@atis.org*

ANSI/ATIS 0600411-2001 (S2015), Network-to-Customer Installation Interfaces - Analog Voicegrade Enhanced 911 Switched Access Using Network-Provided Reverse-Battery Signaling  
*Approved: 3/9/2015*  
*Kerrienne Conn, (202) 434-8841, kconn@atis.org*

ANSI ATIS 0600413-2009 (R2019), Network to Customer Installation Interfaces - Asymmetric Digital Subscriber Line (ADSL) Metallic Interface  
*Approved: 3/8/2019*  
*Kerrienne Conn, (202) 434-8841, kconn@atis.org*

ANSI/ATIS 0600416-1999 (S2015), Network to Customer Installation Interfaces - Synchronous Optical Network (SONET) Physical Layer Specification: Common Criteria  
*Approved: 3/11/2015*  
*Kerrienne Conn, (202) 434-8841, kconn@atis.org*

ANSI/ATIS 0600416.01-1999 (S2015), Network to Customer Installation Interfaces - Synchronous Optical Network (SONET) Physical Media Dependent Specification: Multi-Mode Fiber  
*Approved: 3/11/2015*  
*Kerrienne Conn, (202) 434-8841, kconn@atis.org*

ANSI/ATIS 0600416.02-1999 (S2015), Network to Customer Installation Interfaces - Synchronous Optical Network (SONET) Physical Media Dependent Specification: Single-Mode Fiber  
*Approved: 3/11/2015*  
*Kerrienne Conn, (202) 434-8841, kconn@atis.org*

ANSI/ATIS 0600416.02a-2001 (S2015), Supplement to ATIS-0600416.02.1999(R2005) - Network to Customer Installation Interfaces - Synchronous Optical Network (SONET) Physical Media Dependent Specification: Single Mode Fiber  
*Approved: 3/11/2015*  
*Kerrienne Conn, (202) 434-8841, kconn@atis.org*

ANSI/ATIS 0600416.03-1999 (S2015), Network to Customer Installation Interfaces - Synchronous Optical Network (SONET) Physical Media Dependent Specification: Electrical  
*Approved: 3/11/2015*  
*Kerrienne Conn, (202) 434-8841, kconn@atis.org*

ANSI/ATIS 0600416.04-2005 (S2015), Network and Customer Installation Interfaces - SONET Physical Layer Interface and Mapping Specifications for ATM Applications  
*Approved: 3/11/2015*  
*Kerrienne Conn, (202) 434-8841, kconn@atis.org*

ANSI/ATIS 0600417-2003 (S2015), Spectrum Management for Loop Transmission Systems  
*Approved: 3/9/2015*  
*Kerrienne Conn, (202) 434-8841, kconn@atis.org*

ANSI/ATIS 0600418-2002 (S2015), High bit rate Digital Subscriber Line - 2nd Generation (HDSL2/HDSL4) Issue 2  
*Approved: 3/9/2015*  
*Kerrienne Conn, (202) 434-8841, kconn@atis.org*

ANSI/ATIS 0600418.a-2004 (S2015), High bit rate Digital Subscriber Line - 2nd Generation (HDSL2/HDSL4), Issue 2  
*Approved: 3/9/2015*  
*Kerrienne Conn, (202) 434-8841, kconn@atis.org*

ANSI/ATIS 0600421-2001 (S2015), In-Line Filter for Use with Voiceband Terminal Equipment Operating on the Same Wire Pair with High Frequency (up to 12 MHz) Devices  
*Approved: 3/10/2015*  
*Kerrienne Conn, (202) 434-8841, kconn@atis.org*

ANSI/ATIS 0600422-2001 (S2015), Single-Pair High-Speed Digital Subscriber Line (SHDSL) Transceivers  
*Approved: 3/5/2015*  
*Kerrienne Conn, (202) 434-8841, kconn@atis.org*

ANSI/ATIS 0600423-2001 (S2015), Asymmetric Digital Subscriber Line (ADSL) Transceivers Based on ITU-T Recommendation G.992.1  
*Approved: 3/5/2015*  
*Kerrienne Conn, (202) 434-8841, kconn@atis.org*