



# AMERICAN NATIONAL STANDARD

*ANSI/ASSE A10.22 – 2007 (R2017)  
Safety Requirements for Rope-Guided and  
Non-Guided Workers' Hoists*

*American National Standard  
for Construction and Demolition Operations*

ANSI/ASSE A10.22 – 2007 (R2017)



AMERICAN SOCIETY OF  
SAFETY ENGINEERS

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**ANSI/ASSE A10.22 – 2007 (R2017)**

**American National Standard  
Construction and Demolition Operations**

**Safety Requirements for  
Rope-Guided and Non-Guided Workers' Hoists**

Secretariat

**American Society of Safety Engineers**  
520 N. Northwest Highway  
Park Ridge, Illinois 60068

**Approved October 5, 2017**

**American National Standards Institute, Inc.**

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**Foreword** (This Foreword is not a part of American National Standard A10.22 – 2007 (R2017).)

This standard is one of a series of safety standards that have been formulated by the Accredited Standards Committee on Safety in Construction and Demolition Operations, A10. It is expected that the standards in the A10 series will find a major application in industry, serving as a guide to contractors, labor, and equipment manufacturers. For the convenience of users, a list of existing and proposed standards in the A10 series for Safety Requirements in Construction and Demolition Operations follows.

- A10.1 Pre-Project & Pre-Task Safety & Health Planning
- A10.2 Safety, Health and Environmental Training (under development)
- A10.3 Powder-Actuated Fastening Systems
- A10.4 Personnel Hoists and Employee Elevators
- A10.5 Material Hoists
- A10.6 Demolition Operations
- A10.7 Transportation, Storage, Handling and Use of Commercial Explosives and Blasting Agents
- A10.8 Scaffolding
- A10.9 Concrete and Masonry Construction
- A10.10 Temporary and Portable Space Heating Devices
- A10.11 Personnel Nets
- A10.12 Excavation
- A10.13 Steel Erection
- A10.15 Dredging
- A10.16 Tunnels, Shafts and Caissons
- A10.17 Safe Operating Practices for Hot Mix Asphalt (HMA) Construction
- A10.18 Temporary Roof and Floor Holes, Wall Openings, Stairways and Other Unprotected Edges
- A10.19 Pile Installation and Extraction Operations
- A10.20 Ceramic Tile, Terrazzo, and Marble Work
- A10.21 Safe Construction and Demolition of Wind Generation/Turbine Facilities (under development)
- A10.22 Rope-Guided and Non-Guided Workers' Hoists
- A10.23 Safety Requirements for the Installation of Drilled Shafts
- A10.24 Roofing – Safety Requirements for Low-Sloped Roofs
- A10.25 Sanitation in Construction
- A10.26 Emergency Procedures for Construction Sites
- A10.27 Hot Mix Asphalt Facilities
- A10.28 Work Platforms Suspended from Cranes or Derricks
- A10.29 Aerial Platforms in Construction (under development)
- A10.31 Digger-Derricks
- A10.32 Personal Fall Protection Used in Construction and Demolition Operations
- A10.33 Safety and Health Program Requirements for Multi-Employer Projects
- A10.34 Public Protection
- A10.37 Debris Nets
- A10.38 Basic Elements of a Program to Provide a Safe and Healthful Work Environment
- A10.39 Construction Safety and Health Audit Program
- A10.40 Reduction of Musculoskeletal Problems in Construction
- A10.42 Rigging Qualifications and Responsibilities in the Construction Industry
- A10.43 Confined Spaces in Construction and Demolition Operations
- A10.44 Lockout/Tagout in Construction
- A10.46 Hearing Loss Prevention
- A10.47 Highway Construction Safety
- A10.48 Communication Structures
- A10.49 Control of Health Hazards

One purpose of these standards is to serve as guides to governmental authorities having jurisdiction over subjects within the scope of the A10 Committee standards. If these standards are adopted for governmental use, the reference of other national codes or standards in individual volumes may be changed to refer to the corresponding regulations.

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 Steven Rank, Vice Chair  
 Timothy R. Fisher, CSP, CHMM, ARM, CPEA, Secretary  
 Lauren Bauerschmidt, MS Engr, CSP, Assistant Secretary  
 Jennie Dalesandro, Administrative Technical Support

<b>Organization Represented</b>	<b>Name of Representative</b>
3M	Raymond A. Mann Mike Boraas
A-Z Safety Resources, Inc. Accident Prevention Corporation	Jane F. Williams, CPEA, CCA Frank Burg, CSP, P.E. Terry Krug, CSP, CIH
AGC of America	Michael McCaffrey Kevin Cannon
American Insurance Services Group	Thad Nosal James G. Borchardt, CSP, CPE, CPSM, CRIS
American Society of Civil Engineers	John O'Connor, P.E. Harlan Fair, P.E.
American Society of Safety Engineers	Ken Shorter, CSP, ARM, TCDS A. David Brayton, CSP, CPC
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Century Elevators	Paula Manning Eric Schmidt, P.E.
Clark Construction Group Cole-Preferred Safety Consulting, Inc. Construction & Realty Safety Group, Inc.	Kurt Dunmire, CSP, CHST Barry Cole Ron Lattanzio Frank Marino
CPWR - Center for Construction Research & Training	Bruce Lippy, Ph.D., CIH, CSP Babak Memarian
Edison Electric Institute	Jonathan Kerns Adam Frederick
Elevator Industry Work Preservation Fund	Michael D. Morand James Demmel
Ellis Fall Safety Solutions, LLC	J. Nigel Ellis, Ph.D., P.E., CSP, CPE John T. Whitty, P.E.
Engineering Systems, Inc.	David Ahearn, P.E. Edward J. Tuczak, P.E.
Fluor Corporation	Michael Weatherred, CSP Jim Bates, CSP
Gilbane Building Co.	Robert Hinderliter, ASP Thomas Trauger
Richard D. Hislop	Richard Hislop Shawn Bradfield

Independent Electrical Contractors, Inc.	Paul Dolenc
Innovative Safety, LLC	Jerry Rivera
Institute of Makers of Explosives	Daniel M. Paine
International Association of Bridge, Structural, Ornamental and Reinforcing Iron Workers	Barbara Paine
International Association of Heat & Frost Insulators & Allied Workers	Susan JP Flanagan
International Brotherhood of Boilermakers	Ronald Thomas
International Brotherhood of Electrical Workers	Steven Rank
International Brotherhood of Teamsters	Tim Keane
International Safety Equipment Association	Mark Garrett
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International Union of Operating Engineers	David Mullen
Kiewit Power Constructors Co.	Dan Gardner
Laborers' International Union of North America	LaMont Byrd, CIH
Lamar Advertising	Asher Tobin
Lendlease Corporation	Cristine Fargo
Liberty Mutual	Michael Kassman, CHST
Marsh LLC	Gerard Scarano
Maryland Occupational Safety & Health	Christopher Trembl
Mechanical Contractors Association of America	Barbara McCabe
Miller & Long Concrete Construction	Rusty Brown, CSP
National Association of Home Builders	Dave Hinz
National Association of Railroad Safety Consultants & Investigators	Walter A. Jones, MS, CIH
National Electrical Contractors Association	Travis Parsons
National Institute for Occupational Safety & Health	Chuck Wigger, CSP
National Railroad Construction & Maintenance Association	Beth Phelps
National Roofing Contractors Association	Joel Pickering, CET, CHMM
National Society of Professional Engineers	Michael Lentz
NESTI, Inc.	Daniel P. Lavoie, CSP, ARM
Operative Plasterers and Cement Masons International Association	Stan Williams, ARM, CHST
	Timothy Bergeron, CSP
	Mischelle Vanreusel
	Michael Daughaday
	Peter Chaney, MS, CSP
	Dennis Langley
	Frank Trujillo
	Alex Rodas, CHST
	Robert Matuga
	Chelsea Vetick
	Lewis Barbe, P.E., CSP, CRSP
	Michael J. Johnston
	Wesley Wheeler
	Thomas G. Bobick, Ph.D., P.E., CSP, CPE
	G. Scott Earnest, Ph.D., P.E, CSP
	Jeffrey D. Meddin, CSP, CHEP, CHCM
	Harry Dietz
	Tom Shanahan
	E. Ross Curtis, P.E., DFE, F.ASCE, F.NSPE
	Paul Swanson, P.E.
	Michael Hayslip, P.E., CSP
	Jack Madeley, P.E., CSP
	Deven Johnson



PATMI

Phoenix Fabricators and Erectors, Inc.

Power Consultants, Incorporated  
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Safety Environmental Engineering, Inc.  
Scaffold & Access Industry Association

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U.S. Army Corps of Engineers

U.S. Department of Energy

United Association

United Brotherhood of Carpenters and  
Joiners of America  
United Union of Roofers, Waterproofers &  
Allied Workers  
West Virginia University Extension Service

ZBD Constructors, Inc.

James A. Borchers  
Craig Pratt  
Luke Humphrey  
Frank Massey  
David Goldsmith  
Jim E. Lapping, MS, P.E., CSP  
Kathryn Stieler  
Matthew Murphy  
Ted Beville  
DeAnna Martin  
Carmen Shafer, CSP, CHST

Mike McCullion, CSP, ARM  
Randall Krocka  
Charles Austin, MS  
Stanley Pulz, CSP, P.E.  
Steve Stock, P.E., PLS  
Wayne Creasap, II  
Kathleen Dobson, CSP, CHST, STS.C  
Cindy L. DePrater, ALCM  
Abdon Friend, CSP  
Muhamed El-Zoghbi  
Bonnie Rathbun, CIH, CET  
Terry Meisinger  
Maurice Haygood  
Cheryl Ambrose, CHST, OHST  
Rich Benkowski  
William Irwin  
Dale Shoemaker

Keith J. Vitkovich  
Brandon Takacs, CSHM  
Mark Fullen, Ed.D., CSP  
Greg Thompson, CSP  
Jeffrey D. Meddin, CSP, CHEP, CHCM

**Independent Experts & Observers:**

Alliance of Hazardous Materials Professionals  
J.A. Montgomery Risk Control

Lockton Companies  
National Association of Tower Erectors

U.S. Department of Labor – OSHA

Warfel Construction Company

Carl Heinlein, CSP, ARM, CRIS  
Eric Voight  
Ken Bogdan  
Jason Scollin, CSP, ASP, MS, STC-C  
John P. Jones  
Kathryn Stieler  
Dean McKenzie  
Scott Ketcham  
Jeffrey I. Pierce  
Kevin Stoltzfus

**Subgroup A10.22 had the following members:**

Greg Thompson, CSP (Chair)  
Jeffrey Meddin, CSP, CHCM (Vice-Chair)  
J. Nigel Ellis, Ph.D., P.E., CSP, CPE (Liaison)

Lawrence Clark  
Anthony Madera

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## AMERICAN NATIONAL STANDARD A10.22 SAFETY REQUIREMENTS FOR ROPE-GUIDED AND NON-GUIDED WORKERS' HOISTS

### 1. GENERAL

**1.1 Scope.** This standard establishes minimum safety requirements for temporary personnel hoisting systems used for the transportation of persons to and from working elevations during normal construction and demolition operations, including maintenance, and is restricted to use in special situations, such as:

- 1) Work in chimneys, chimney linings, silos, towers, stacks, shafts and similar projects.
- 2) When necessary, to hoist or lower a person in a boatswain's chair or equivalent and the height is too great for practical use of a block and falls (see Section 12).
- 3) For transportation of materials, but not concurrently with hoisting of personnel.

The requirements of this standard are in addition to, or in lieu of, applicable provisions specified by ANSI/ASSE A10.5, *Safety Requirements for Material Hoists*.

**1.2 Purpose.** This standard is intended to provide safety for those requiring the use of rope-guided and non-guided worker's hoists in special situations as set forth in 1.1.

**1.3 Exceptions.** In cases of practical difficulties, unnecessary hardships or new development, exceptions to the literal requirements shall be permitted by the enforcing authority to allow the use of other devices or methods, but only when it is clearly established that equivalent protection is thereby obtained.

**1.4 Design Qualifications.** Rope-guided worker's hoists shall be designed by a qualified engineer competent in this field, and shall be constructed and rated in accordance with such design and the limitations of this standard.

**1.5 Training.** Prior to using the hoisting system described herein, both supervisory and operation personnel shall be instructed in the provisions of this standard and in the operational characteristics relating to the particular worker's hoisting system in use. Recommendations of the equipment manufacturer and system designer(s) shall be followed. The equipment manufacturer shall provide instructional material for training on their equipment. Records of training shall be maintained.

### 2. REFERENCED AND RELATED STANDARDS AND PUBLICATIONS

**2.1 Referenced American National Standards.** This standard is intended to be used with all applicable American National Standards. When these referenced standards are superseded by a revision approved by the American National Standards Institute (ANSI) the most recent revision shall apply:

ANSI/AWS D1.1/D1.1M, *Structural Welding Code - Steel*

ANSI/NFPA 70, *National Electrical Code*

**2.2 Referenced Publications.** This standard is also intended to be used with the following publications:

AISC, *Steel Construction Manual*

OSHA 29 CFR 1926.52, *Occupational Noise Exposure*