



AMERICAN NATIONAL STANDARD

*ANSI/ASSE A10.4 – 2016
Safety Requirements for Personnel Hoists
and Employee Elevators on Construction
and Demolition Sites*

*American National Standard
for Construction and Demolition Operations*

ANSI/ASSE A10.4 – 2016



AMERICAN SOCIETY OF
SAFETY ENGINEERS

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ANSI/ASSE A10.4 – 2016

**American National Standard
Construction and Demolition Operations
Safety Requirements for Personnel Hoists
and Employee Elevators on
Construction and Demolition Sites**

Secretariat

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

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Foreword (This Foreword is not a part of American National Standard A10.4-2016.)

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 (under development)
- A10.44 Lockout/Tagout in Construction
- A10.46 Hearing Loss Prevention
- A10.47 Highway Construction Safety
- A10.48 Communication Tower Erection (under development)
- 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
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 Ovidiu Munteanu, Assistant Secretary
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Name of Representative

Accident Prevention Corporation	Frank Burg, CSP, P.E. Terry Krug, CSP, CIH
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ASCE - Construction Institute Committee	William R. Nash, P.E. Harlan Fair, P.E.
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Building & Construction Trades Department	Pete Stafford Chris Trahan, CIH
CPWR - Center for Construction Research & Training	Bruce Lippy, Ph.D., CIH, CSP
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Clark Construction Group	Kurt Dunmire, CSP, CHST Jeff Ambrose, CSP, CHST, CET
Cole-Preferred Safety Consulting, Inc.	Barry Cole
Philip L. Colleran	Philip L. Colleran, CSP
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Mechanical Contractors Association of America	
National Association of Home Builders	
National Association of Railroad Safety Consultants & Investigators National Electrical Contractors Association	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
National Institute for Occupational Safety & Health	
National Railroad Contractors & Maintenance Association National Roofing Contractors Association	Jeffrey D. Meddin, CSP, CHEP, CHCM Harry Dietz Tom Shanahan E. Ross Curtis, P.E., DFE Paul Swanson, P.E.
National Society of Professional Engineers	
Operative Plasterers and Cement Masons International Association Daniel M. Paine	Deven Johnson Daniel M. Paine Barbara Paine Robert E. Clouse, CSP, CHST Luke Humphrey James A. Borchers David Jablonski David Goldsmith Camille Villanova Jim E. Lapping, MS, P.E., CSP
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SPA, Incorporated
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United Association of Plumbers and Pipefitters

United Brotherhood of Carpenters and
Joiners of America

United Union of Roofers, Waterproofers and
Allied Workers
U.S. Department of the Army – Corps of Engineers

U.S. Department of Energy

West Virginia University Extension Service

ZBD Constructors (Zurn Industries)

Anthony Brown
Bob Masterson, CSP
Matthew Murphy
Elliot Niefeld
DeAnna Martin
Carmen Shafer, CSP, CHST, CRIS

Mike McCullion, CSP, ARM
Joe Visgaitis
Randall Krocka
Charles Austin, MS
Stanley Pulz, CSP, P.E.
Cindy L. DePrater, ALCM
Paul Huntley
Laurie Shadrick
Bruce Dantley

William Irwin
Thomas L. Kavicky

John Barnhard
Brian Becker, MS
Andrew Blaisdell, MS, EI
Bill R. McArthur, Ph.D., CIH
Terry Meisinger
Brandon Takacs, CSHM
Mark Fullen, Ed.D., CSP
Greg Thompson, CSP
Jeffrey D. Meddin, CSP, CHEP, CHCM

Independent Experts & Observers:

Balfour Beatty Construction, LLC
Kiewit Power Constructors Co.

PAR Electrical Contractors

Charles Bird
Rusty Brown, CSP
Jason Scollin, CSP
Steven T. Theis
Lee Boulanger

Subgroup A10.4 had the following members:

Michael D. Morand (Chair)
Richard Hislop (Liaison)
Ted Beville
Charles Ernestes
Richard Gregory
Terry Haug
Greg Janda
Peter Juhren
William Madden
Paula Manning
Jeffrey D. Meddin, CSP, CHEP, CHCM

John O'Connor
Kevin O'Shea
David Sandfoss
Todd Sharpe

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AMERICAN NATIONAL STANDARD A10.4 SAFETY REQUIREMENTS FOR PERSONNEL HOISTS AND EMPLOYEE ELEVATORS ON CONSTRUCTION AND DEMOLITION SITES

1. GENERAL

1.1 Scope.

1.1.1 This standard applies to the design, construction, installation, operation, inspection, testing, maintenance, alterations and repair of hoists and elevators that (1) are not an integral part of buildings, (2) are installed inside or outside buildings or structures during construction, alteration, or demolition operations and (3) are used to raise and lower workers and other personnel connected with or related to the structure. These personnel hoists and employee elevators may also be used for transporting materials under specific circumstances defined in this standard.

1.1.2 This standard does not apply to the following:

1. Permanent elevators that are temporarily installed in the hoistways during the construction of buildings, and which incorporate a part of the permanent elevator that will be installed later.
2. Hoists for raising and lowering materials that have no provision for carrying personnel.
3. Manlifts of the counter-balanced and endless-belt types.
4. Mine hoists.
5. Wire-rope-guided or non-guided hoists.
6. Transport Platforms

1.2 Purpose. The purpose of this standard is to set forth minimum

requirements intended to provide for the safety of life, limb and property of those engaged in occupations requiring the use of personnel hoists or employee elevators. The requirements of this standard are the minimum for that purpose.

1.3 Exceptions. In cases of practical difficulties, unnecessary hardships or new developments, the enforcing authority may grant exceptions to literal requirements of this standard. These exceptions may permit use of other devices or methods, but only when it is clearly indicated that equivalent safety and permanent installation are thereby secured.

2. REFERENCES

2.1 Related American National Standards. The following publications or their most current issue supplement this standard:

ANSI/ASSE A10.18, *Safety Requirements for Temporary Floors, Holes, Wall Openings, Stairways, and Other Unprotected Edges in Construction and Demolition Operations*

ANSI/ASSE Z359.1, *Safety for Personal Fall Arrest Systems, Subsystems and Components*

ASME A17.1/CSA B44. *Safety Code for Elevators and Escalators*

ANSI/ACI 318, *Building Code Requirements for Structural Concrete*

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

ANSI/NFPA 70, *National Electrical Code*