

# ANSI/ASSP A10.30-2020

Safety Requirements for the Installation of  
Ground Anchors and Micropiles



AMERICAN SOCIETY OF  
**SAFETY PROFESSIONALS**



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**ANSI/ASSP A10.30 – 2020**

**American National Standard  
Construction and Demolition Operations**

**Safety Requirements for the  
Installation of Ground Anchors and Micropiles**

Secretariat

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

**Approved: July 22, 2020**

**American National Standards Institute**

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## **Foreword** (This Foreword is not a part of American National Standard A10.30-2020.)

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 and technical materials in the A10 series for Safety Requirements in Construction and Demolition Operations follows.

A10.0	The Construction and Demolition Compendium of Standards
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	Use, Storage, Handling and Site Movement 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
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	Pre-Planning, Installation, Inspection and Use of Fall Protection for Construction and Demolition (under development)
A10.30	Installation of Anchors and Micropiles
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
A10.35	Pressure Testing of Steel and Copper Piping Systems (under development)
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
- A10.50 Heat Stress Management in Construction and Demolition Operations (under development)
- A10.100 Prevention through Design in Construction
- A10.101 Drones in Construction (under development)
- A10.102 Emerging Technology in Construction (under development)
- A10.103 Lagging and Leading Indicators Used in Construction (under development)
- A10.104 Pandemics and Infectious Diseases on Construction and Demolition Sites (under development)

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.

### **Normative Requirements**

This standard uses the single column format common to many international standards. The normative requirements appear aligned to the left margin. To meet the requirements of this standard, machinery, equipment and process suppliers and users must conform to these normative requirements. These requirements typically use the verb “shall.”

*NOTE: The informative or explanatory notes in this standard appear indented, in italics, in a reduced font size, which is an effort to provide a visual signal to the reader that this is an informative note, not normative text, and is not to be considered part of the requirements of this standard; this text is advisory in nature only. The suppliers and users are not required to conform to the informative note. The informative note is presented in this manner in an attempt to enhance readability and to provide explanation or guidance to the sections they follow.*

**Revisions:** The A10 Committee welcomes proposals for revisions to this standard. Revisions are made to the standard periodically (usually five years from the date of the standard) to incorporate changes that appear necessary or desirable, as demonstrated by experience gained from the application of the standard. Proposals should be as specific as possible, citing the relevant section number(s), the proposed wording and the reason for the proposal. Pertinent documentation would enable the A10 Committee to process the changes in a more-timely manner.

**Interpretations:** Upon a request in writing to the Secretariat, the A10 Committee will render an interpretation of any requirement of the standard. The request for interpretation should be clear, citing the relevant section number(s) and phrased as a request for a clarification of a specific requirement. Oral interpretations are not provided.

No one but the A10 Committee (through the A10 Secretariat) is authorized to provide any interpretation of this standard.

**Approval:** Neither the A10 Committee nor American National Standards Institute (ANSI) approves, certifies, rates or endorses any item, construction, proprietary device or activity.

**Appendices:** Appendices are included in most standards to provide the user with additional information related to the subject of the standard. Appendices are not part of the approved standard.

**Checklists:** Checklists included in A10 standards may be copied and used in non-commercial settings only.

**Committee Meetings:** The A10 Committee meets twice per year. Persons wishing to attend a meeting should contact the Secretariat for information.

**Standard Approval:** This standard was processed and approved for submittal to ANSI by the American National Standards Committee on Safety in Construction and Demolition Operations, A10. Approval of the standard does not necessarily imply (nor is it required) that all Committee members voted for its approval. At the time ANSI approved this standard, the A10 Committee had the following members:

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

<b>Organization Represented</b>	<b>Name of Representative</b>
3M	Raymond Mann Heidi Lopez-Hidalgo, P.E.
AGC of America	Michael McCaffrey Kevin Cannon
Alliance of Hazardous Materials Professionals	Carl Heinlein, CSP, ARM, CRIS
American Insurance Services Group	Thad Nosal James Borchardt, CSP, CPE
American Society of Civil Engineers	John O'Connor, P.E. Harlan Fair, P.E.
American Society of Safety Professionals	Ken Shorter, CSP, ARM, TCDS A. David Brayton, CSP, CPC
American Wind Energy Association	Christopher Daniels Michele Myers Mihelic
APT Research, Inc.	Saralyn Dwyer
Associated Builders & Contractors, Inc.	Stephen Wiltshire, MSc Greg Sizemore
Barton Malow Company	Mark Haggemaker, CHST, CCHT Ryan Monahan
Black & Veatch	John Johnson, CSP Jason Scollin, CSP, MS, STSC, CRIS
Building & Construction Trades Department	Chris Cain, CIH Gary Gustafson
Century Elevators	Paula Manning Eric Schmidt, P.E.
Clark Construction Group	Kurt Dunmire, CSP, CHST
Cole-Preferred Safety Consulting, Inc.	Barry Cole
Conner Strong & Buckelew	Eric Voight, CSP Ken Bogdan
Construction & Realty Safety Group, Inc.	Ron Lattanzio Frank Marino
CPWR - The Center for Construction Research & Training	Bruce Lippy, Ph.D., CIH, CSP Babak Memarian, Ph.D., CHST
Eckstine & Associates, Inc.	Dennis Eckstine Matthew Eckstine
Edison Electric Institute	Joseph DiPlacido, MS CSP Carren Spencer

Elevator Industry Work Preservation Fund	Michael Morand
	James Demmel
Ellis Fall Safety Solutions, LLC	J. Nigel Ellis, Ph.D., P.E., CSP, CPE
	John Whitty, P.E.
Engineering Systems, Inc.	David Ahearn, P.E.
	Edward Tuczak, P.E.
Fluor Corporation	Michael Weatherred, CSP
	Jim Bates, CSP
Gilbane Building Co.	Robert Hinderliter, ASP
	Thomas Trauger, CSP, ARM, CRIS
Hislop, Richard D.	Richard Hislop, P.E., CSP, ARM
	Shawn Bradfield, CSP
Independent Electrical Contractors, Inc.	Paul Dolenc
	Jerry Rivera
Innovative Safety, LLC	Barbara Paine
Institute of Makers of Explosives	Joshua Hoffman, Ph.D., P.E.
	Susan Flanagan
International Association of Bridge, Structural, Ornamental & Reinforcing Iron Workers	Steven Rank
	Wayne Creasap II
International Association of Heat & Frost Insulators & Allied Workers	Tim Keane
International Brotherhood of Boilermakers	Mark Garrett
	Bridget Connors
International Brotherhood of Electrical Workers	David Mullen
	Dan Gardner
International Brotherhood of Teamsters	LaMont Byrd, CIH
International Safety Equipment Association	Cristine Fargo
	Daniel Glucksman
International Union of Bricklayers & Allied Craftworkers	David Wysocki
	Gerard Scarano
International Union of Operating Engineers	Christopher Tremi
	Russell Duke
IUPAT	Kenneth Seal
Kiewit Power Constructors Co.	Rusty Brown, CSP
	Cody Williams, ASP
Laborers' International Union of North America	Walter Jones, MS, CIH
	Travis Parsons
Lamar Advertising Company	Chuck Wigger, CSP
	Beth Phelps
Lendlease Corporation	Joel Pickering, CET, CHMM
	Michael Lentz
Liberty Mutual	Stan Williams, ARM, CHST
	Kevin Newlan, ASP, CHST



Lockton Companies	Marcus Reiter, CSP, ARM, CRIS
	Drew Youpel, CRIS, STSC
Marsh LLC	Timothy Bergeron, CSP, CRIS
Maryland Occupational Safety & Health	Mischelle Vanreusel
	Michael Daughaday, CHST
Mechanical Contractors Association of America	Peter Chaney, MS, CSP
Miller & Long Co., Inc.	Frank Trujillo
	Alex Rodas, CHST
National Association of Home Builders	Robert Matuga
	Christian Culligan
National Electrical Contractors Association	Michael Johnston
	Wesley Wheeler
National Institute for Occupational Safety & Health	Thomas Bobick, Ph.D., P.E., CSP, CPE
	G. Scott Earnest, Ph.D., P.E., CSP
National Railroad Construction & Maintenance Association	Jeffrey Meddin, CSP, CHEP, CHCM
National Roofing Contractors Association	Harry Dietz
	Thomas Shanahan
National Society of Professional Engineers	E. Ross Curtis, P.E., DFE, F.ASCE, F.NSPE
NESTI, Inc.	Michael Hayslip, P.E., CSP
	Jack Madeley, M.S., P.E., CSP
Operative Plasterers & Cement Masons International Association	Deven Johnson
PATMI	
Phoenix Fabricators & Erectors, Inc.	James Borchers
	Frank Massey
Professional Safety Consultants, Inc.	Dmitry Stott, CHST, GSP
	Jim Lapping, MS, P.E., CSP
Safety Environmental Engineering, Inc.	Kathy Stieler
Scaffold & Access Industry Association	Matthew Murphy
	DeAnna Martin
Sheet Metal & Air Conditioning Contractors National Association	Jackie Brown
	Mike McCullion, CSP, ARM
SMART Union	Jamie Devan, CHST
SPA, LLC	Randall Krocka
Stock Enterprises	Stanley Pulz, CSP, P.E.
The Association of Union Constructors	Steve Stock, P.E., PLS
	Alex Kopp
Turner Construction Company	Kathleen Dobson, CSP, CHST, STS.C
	Cindy DePrater, ALCM
U.S. Army Corps of Engineers	Abdon Friend, CSP
U.S. Department of Energy	Todd "Marty" Werdebaugh, MS, CSP, PMP
	Craig Schumann
United Association of Plumbers and Pipefitters	Maurice Haygood
	Cheryl Ambrose, CHST, OHST
	Rita Neiderheiser, CHST, CIT

United Brotherhood of Carpenters & Joiners of America  
United Union of Roofers, Waterproofers & Allied Workers  
West Virginia University Extension Service  
ZBD Constructors, Inc.

William Irwin  
Royce Peters  
Richard Tessier  
Keith Vitkovich  
Brandon Takacs, CSP, CSHM  
Mark Fullen, Ed.D., CSP  
Greg Thompson, CSP  
Jeffrey Meddin, CSP, CHEP, CHCM

**Independent Experts & Observers**

DPR Construction  
National Association of Tower Erectors  
U.S. Department of Labor - OSHA  
Warfel Construction Company

James Alexander, CSP, CHST, CET  
Paul Butler, CSP, CHST  
John Jones  
Kathryn Stieler  
Scott Ketcham  
Eric Kampert, P.E., CSP, OHST  
Jeffrey Pierce  
Kevin Stoltzfus

**Subgroup A10.30 had the following members:**

Richard Marshall, CHST, Chair  
Jeffery Coonse, P.E.  
David Hicks  
Robert Kerns  
Gregory Lewis  
Jason Timmons, CSP, ARM  
Patrick Vincent

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**AMERICAN NATIONAL STANDARD A10.30  
SAFETY REQUIREMENTS FOR THE INSTALLATION OF  
GROUND ANCHORS AND MICROPILES**

**1. Scope, Purpose, Application and Exceptions**

**1.1 Scope**

This standard establishes safety requirements for the installation of ground anchors and micropiles during construction and demolition operations.

**1.2 Purpose**

This standard is intended for use as a guideline for protecting workers from hazards associated with installation of ground anchors and micropiles.

**1.3 Application**

This standard applies to employment and places of employment where employees are exposed to hazards associated with the construction of ground anchors and micropiles for foundations and earth retention elements.

**1.4 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 Referenced American National Standards**

This standard is intended to be used in conjunction with the latest approved revision of the following American National Standards.

*ANSI/ACDE-01-2015 Commercial Diver Training – Minimum Standard*

*ANSI/ASSP A10.8, Scaffolding Safety Requirements*

*ANSI/ASSP A10.9, Safety Requirements for Concrete and Masonry Work*

*ANSI/ASSP A10.12, Safety Requirements for Excavation*

*ANSI/ASSP A10.16, Safety Requirements for Tunnels, Shafts and Caissons*

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

*ANSI/ASSP A10.28, Safety Requirements for Work Platforms Suspended from Cranes or Derricks*

*ANSI/ASSP A10.32, Fall Protection Systems for Construction and Demolition Operations*

*ANSI/ASSP A10.33, Safety & Health Program Requirements for Multi-Employer Projects*

*ANSI/ASSP A10.42, Safety Requirements for Rigging Qualifications and Responsibilities*

*ANSI/ASSP A10.43, Confined Spaces in Construction and Demolition Operations.*

*ANSI/ASSP A10.44, Control of Energy Sources (Lockout/Tagout) for Construction and Demolition Operations*