

ANSI/ASSP A10.23-2019

Safety Requirements for the
Installation of Drilled Shafts



AMERICAN SOCIETY OF
SAFETY PROFESSIONALS



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ANSI/ASSP A10.23 – 2019

**American National Standard
Construction and Demolition Operations**

**Safety Requirements for the
Installation of Drilled Shafts**

Secretariat

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

Approved: April 12, 2019

American National Standards Institute

American National Standard

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Foreword (This Foreword is not a part of American National Standard A10.23-2019.)

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	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	Aerial Platforms in Construction (under development)
A10.30	Installation of Anchors and Micropiles (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
A10.35	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

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 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.

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

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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:

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Lauren Bauerschmidt, MS Engr, CSP, STS, Assistant Secretary
Jennie Dalesandro, Administrative Technical Support

Organization Represented

Name of Representative

3M	Raymond Mann
AGC of America	Mike Boraas Michael McCaffrey Kevin Cannon
Alliance of Hazardous Materials Professionals American Insurance Services Group	Carl Heinlein, CSP, ARM, CRIS Thad Nosal James Borchardt, CSP, CPE
American Society of Civil Engineers	John O'Connor, P.E. Harlan Fair, P.E.
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Black & Veatch	John Johnson, CSP Jason Scollin, CSP, MS, STSC, CRIS
Building & Construction Trades Department	Chris Cain, CIH Gary Gustafson Paula Manning Eric Schmidt, P.E.
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CPWR - The Center for Construction Research & Training	Jonathan Kerns Adam Frederick Michael Morand James Demmel
Eckstine & Associates, Inc.	J. Nigel Ellis, Ph.D., P.E., CSP, CPE John Whitty, P.E. David Ahearn, P.E. Edward Tuczak, P.E.
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Hislop, Richard D.	Richard Hislop, P.E., CSP, ARM
Independent Electrical Contractors, Inc.	Shawn Bradfield, CSP
Innovative Safety, LLC	Paul Dolenc
Institute of Makers of Explosives	Jerry Rivera
International Association of Bridge, Structural, Ornamental & Reinforcing Iron Workers	Daniel Paine
International Association of Heat & Frost Insulators & Allied Workers	Barbara Paine
International Brotherhood of Boilermakers	Joshua Hoffman, Ph.D., P.E.
International Brotherhood of Electrical Workers	Susan Flanagan
International Brotherhood of Teamsters	Steven Rank
International Safety Equipment Association	Tim Keane
International Union of Bricklayers & Allied Craftworkers	Mark Garrett
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IUPAT	David Mullen
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Maryland Occupational Safety & Health	Gerard Scarano
Mechanical Contractors Association of America	Christopher Trembl
Miller & Long Concrete Construction	Barbara McCabe
National Association of Home Builders	Kenneth Seal
National Electrical Contractors Association	Rusty Brown, CSP
National Institute for Occupational Safety & Health	Cody Williams, ASP
National Railroad Construction & Maintenance Association	Walter Jones, MS, CIH
National Roofing Contractors Association	Travis Parsons
National Society of Professional Engineers	Chuck Wigger, CSP
NESTI, Inc.	Beth Phelps
	Joel Pickering, CET, CHMM
	Michael Lentz
	Daniel Lavoie, CSP, ARM
	Stan Williams, ARM, CHST
	Timothy Bergeron, CSP
	Mischelle Vanreusel
	Michael Daughaday, CHST
	Peter Chaney, MS, CSP
	Dennis Langley
	Frank Trujillo
	Alex Rodas, CHST
	Robert Matuga
	Peter Deery, CSP, CHST
	Michael Johnston
	Wesley Wheeler
	Thomas Bobick, Ph.D., P.E., CSP, CPE
	G. Scott Earnest, Ph.D., P.E., CSP
	Jeffrey Meddin, CSP, CHEP, CHCM
	Harry Dietz
	Thomas 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

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U.S. Army Corps of Engineers
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United Association of Plumbers and Pipefitters

United Brotherhood of Carpenters & Joiners of America

United Union of Roofers, Waterproofers & Allied Workers

West Virginia University Extension Service

ZBD Constructors, Inc.

Deven Johnson
James Borchers
Craig Pratt
Luke Humphrey
Frank Massey
Jim Lapping, MS, P.E., CSP
Kathy Stieler
Matthew Murphy
Ted Beville
DeAnna Martin

Mike McCullion, CSP, ARM
Jamie Devan, CHST
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 DePrater, ALCM
Abdon Friend, CSP
Steven Washington
Craig Schumann
Maurice Haygood
Cheryl Ambrose, CHST, OHST
Rich Benkowski
William Irwin
Dale Shoemaker
Richard Tessier
Keith Vitkovich
Brandon Takacs, CSP, CSHM
Mark Fullen, Ed.D., CSP
Greg Thompson, CSP
Jeffrey Meddin, CSP, CHEP, CHCM

Independent Experts & Observers:

Lockton Companies
National Association of Tower Erectors

U.S. Department of Labor – OSHA

Warfel Construction Company

Marcus Reiter, CSP, ARM, CRIS
John P. Jones
Kathryn Stieler
Scott Ketcham
Eric Kampert, P.E., CSP, OHST
Jeffrey I. Pierce
Kevin Stoltzfus

Subgroup A10.23 had the following members:

Rusty Brown, CSP, Chair
Richard Marshall, CHST, Vice-Chair
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Michael Blanchard, ARM, CSP
Wayne Creasap, II
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Robert Graswick
Blake Hladik
Gregory Lewis
Juan Mendiola, CHST, SMS, STSC
O'Brien Mills
Colin Perkins, CSHM
John Roma
Jason Scollin, CSP, ASP, MS, STC-C
Marshall "Bo" Walker

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AMERICAN NATIONAL STANDARD A10.23 SAFETY REQUIREMENTS FOR THE INSTALLATION OF DRILLED SHAFTS

1. Scope, Purpose, Application and Exceptions

1.1 Scope

This standard establishes safety requirements for the installation of drilled shafts 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 drilled shafts.

1.3 Application

This standard applies to employment and places of employment where employees are exposed to hazards associated with the construction of drilled shafts for foundations and earth retention elements. This standard does not apply to driven piles covered by ANSI/ASSP A10.19 or caissons covered by ANSI/ASSP A10.16.

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/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, *Temporary Roof and Floor Holes, Wall Openings, Stairway's and Other Unprotected Edges*

ANSI/ASSP A10.19, *Safety Requirements for Pile Installation and Extraction 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*