

ANSI/ASSP A10.19-2023

Safety Requirements for Driven Pile Installation
and Extraction Operations



AMERICAN SOCIETY OF
SAFETY PROFESSIONALS



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ANSI/ASSP A10.19 – 2023

**American National Standard
Construction and Demolition Operations**

**Safety Requirements for
Driven Pile Installation and Extraction Operations**

Secretariat

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

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American National Standards Institute

American National Standard

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Foreword (This Foreword is not a part of American National Standard A10.19-2023.)

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
A10.11	Personnel Nets
A10.12	Excavation
A10.13	Steel Erection
A10.15	Dredging
A10.16	Tunnels, Shafts and Caissons
A10.18	Temporary Roof and Floor Holes, Wall Openings, Stairways and Other Unprotected Edges
A10.19	Driven Pile Installation and Extraction Operations
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
A10.28	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
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 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.

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Lauren Bauerschmidt, MS Engr, CSP, STS, Assistant Secretary
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Name of Representative

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Carl Heinlein, CSP, ARM, CRIS

Doug Watson, SHEP, CSHO (D), SSH,
STS-C

Adam Stone

Thad Nosal

James Borchardt, CSP, CPE

John O'Connor, P.E.

Ken Shorter, MS, CSP, ARM

Mark Webster, P.E.

Greg Sizemore

Joe Xavier

Timothy Bergeron, MA, CSP, CRIS

Doug Jenkins, CHST

Mark Haggenmaker, CHST, CCHT

Ryan Monahan

John Johnson, CSP

Shelly Pizzi, CSP, CIH

Thomas Bobick, Ph.D., P.E., CSP, CPE

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Carren Spencer

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John Whitty, P.E.

Alan Goard, MS, CSP

David Ahearn, P.E.

Edward Tuczak, P.E.

Zachary Winters

John Anderson

Michael Weatherred, CSP

Jim Bates, CSP

Shanon Beekman

Francois Villeneuve

Andrew Valentine, CHST, LEED AP

Taylor Pedmo, GSP, STS-C

Richard Hislop, P.E., CSP, ARM

Shawn Bradfield, CSP

Joshua Hoffman, Ph.D., P.E.

Susan Flanagan

Steven Rank

Wayne Creasap II

Tim Keane

Mark Garrett

Bridget Connors

Mark MacNichol

Charles Austin, MSc

Enjoli DeGrasse, MSPH, CIH

Diana Jones

Daniel Glucksman

David Wysocki

Liliana Calderon

David Griefenhagen

Eric McClaskey

Christopher Tremi

Thomas McNamara

Kenneth Seal

Rusty Brown, CSP

Jenna Gruner

Travis Parsons, MS

Ryan Papariello, GSP

Chuck Wigger, CSP, ARM

Beth Phelps

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Michael Lentz
Derek Spain, CSP, ARM
John Rabovsky, MS, CSP, CHST, CRIS,
ARM
Daniel Faught, ASP, CHST, CRIS
Jeffrey Dougherty, CRIS
Mischelle Vanreusel
Matthew Helminiak
Raffi Elchemmas, CHST
Peter Chaney, MS, CSP
Frank Trujillo
Alex Rodas, CHST
Kathryn Stieler
John (JP) Jones
Brad Mannion
Felicia Watson
Wesley Wheeler, SMS, CESC
Mike Starnes, CUSP
Hugo Camargo, Ph.D.
G. Scott Earnest, Ph.D., P.E., CSP
Jeffrey Meddin, CSP, CHEP, CHCM
Matthew Rossing, CSP
Cheryl Ambrose, CHST, OHST
Rich Trewyn
Michael Hayslip, P.E., CSP
Jack Madeley, MS, P.E., CSP
Tony Longbrake

James Borchers
Scott Boorse
Melinda Whitney
Kurt Fuller, P.E.
Tracy Dutting-Kane, P.E.
DeAnna Martin
Justin Crandol, MS, CSP, ARM, CRIS
Jason Galoozis
Aldo Zambetti
Jeffrey Bradley
Stanley Pulz, CSP, P.E.
Steve Stock, P.E., PLS
Ali Lucas
Alex Kopp
Cindy DePrater, ALCM
Abdon Friend, CSP

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ZBD Constructors, Inc.

Jason Walsh, CSP, SMS

William Eggleston

Craig Schumann

Maurice Haygood

Jennifer Massey, CSP, CRIS, MLIS,
CHST, OHST, STSC

Rita Neiderheiser, CHST, CIT

Royce Peters

Chad McDonald, CSP, ASP, CHST

Richard Tessier

Keith Vitkovich

Brandon Takacs, CSP, CSHM

Mark Fullen, Ed.D., CSP

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Richard Marshall, CHST

Curtis Corley, ASP, CHST

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Kathleen Dobson, CSP, SMS, CIT, CHST,
STS.C

Jason Konrad, CSP

Jason Scollin, CSP, MS, ASP, CHST, STSC

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Palmer Hickman

Don Doty

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Kevin Stoltzfus, CHST

Ryan Thomas

Chris Godek

Jeffrey Lambert

Ross Anderton

Joaquin Diaz, MM, CIH, CSP, CHST, OHST

Whitney Williams, MS, CSP

Jim Evans, PMP, CSP, SMS, COHSP

Erin Gilmore, MS, MPH, CSP, CHMM

Scott Ketcham, MPS, CSP

Walter Jones, CIH

Jeffrey Pierce, CSP, CHST, CFPS

Subgroup A10.19 had the following members:

Richard Marshall, CHST, Chair
Michael Hayslip, P.E., CSP, Liaison
Rudolph Frizzi, P.E., GE, D.GE
John Johnson, CSP
Walter Jones, CIH
Dan Kuhs
Ron Lattanzio
Chris Normand, P.E.
Michael H. Wysocky, Ph.D., P.E.

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AMERICAN NATIONAL STANDARD A10.19

SAFETY REQUIREMENTS FOR DRIVEN PILE INSTALLATION AND EXTRACTION OPERATIONS

1. General

1.1 Scope

This standard establishes safety requirements for the installation and extraction of driven piles during construction and demolition operations.

1.2 Application

This standard applies to employment and places of employment where employees are exposed to hazards associated with driven pile installation and extraction operations during construction and demolition operations. This standard applies to driven piles comprised of hot and cold rolled steel, concrete, wood, and composite materials. This standard does not apply to structural steel erection covered by ANSI/ASSP A10.13, *Safety Requirements for Steel Erection*, or jacking or caisson operations covered by ANSI/ASSP A10.16, *Safety Requirements for Tunnels, Shafts and Caissons*.

1.3 Purpose

The prevention of injuries and illnesses to persons exposed to hazards associated with pile driving and extraction operations.

1.4 Exceptions

In cases of practical difficulties, unnecessary hardships or new developments, exceptions to the literal requirements of this standard 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.

1.5 Mandatory and Advisory Rules

Mandatory rules of this standard are characterized by the word “shall.” If a rule is of an advisory nature, it is indicated by the word “should,” or is stated as a recommendation.

1.6 Equivalent

In this standard, the word “equivalent” shall mean alternative materials, designs, or features that will provide an equal degree of strength and safety.

2. Referenced Standards

2.1 Related American National Standards

The following American National Standards are referred to, supplement or relate to this document. All provisions of the referenced standards that are applicable to demolition operations should be observed. When the following American National Standards are superseded by a revision approved by the American National Standards Institute, the revision shall apply:

ANSI/ASSP A10.1, *Pre-Project & Pre-Task Safety and Health Planning*

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

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