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ANSI A10.3-1995 ■
Powder Actuated Fastening Systems, Safety Requirements for Document Number: ANSI A10.3-1995

Scope: This standard provides safety requirements for a powder-actuated fastening system (tool or machine) that propels a stud, pin, fastener, or other object for the purpose of affixing it, by penetration, to hard structural material. (Such as floors, walls, ceilings and framing members). This standard does not apply to devices designed for attaching object to soft construction materials (such as wood, plaster, tar, and dry wallboard) or very hard or brittle construction materials (such as cast iron, glazed tile, hardened steel, glass, natural rock, hollow tile, and most brick). This standard also does not apply to stud welding equipment.

ANSI A10.4-199x ■
Personnel Hoists and Employee Elevators for Construction and Demolition Operations - Safety Requirements

Scope: Applies to the design, construction, installation, operating, 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, demolition or operation 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.

ANSI A10.6-1990 (R1998) ■
NSC Demolition, Safety Requirements for Document Number: ANSI A10.6-1990 (R1998)

Scope: Applies to the demolition of buildings and other structures. This standard is intended to be complete in itself, except that any device, equipment and activity incidental to demolition operations shall be conducted, installed, inspected, maintained, and operated in accordance with requirements in

American National Standards for Safety in construction and Demolition Operations A10 Series, other American National Standards listed in Section 2 of this standards, and other appropriate standards.

ANSI A10.7-1998 ■
Commercial Explosives and Blasting Agents - Safety Requirements for Transportation, Storage, Handling and Use

Scope: Provides the construction industry with reasonable minimum recommendations for establishing and maintaining a level of health and safety with regard to the transportation, storage, handling, and use of commercial explosives and blasting agents.

ANSI A10.8-2001 ■
Safety Requirements for Scaffolding

Scope: Establishes safety requirements for the construction, operation, maintenance, and use of scaffolds used in the construction, demolition and maintenance of buildings and structures.

ANSI A10.9-1997 ■
Concrete and Masonry Work Safety Requirements

Scope: Establishes safety requirements pertaining to concrete construction and masonry work in construction. Covers all on-site concrete construction and masonry work including design, erection, operation, and maintenance of aggregate processing plants, concrete mixing plants, and conveyances. Also contains safety requirements pertinent to the specialty concrete operations of prestressing by pretensioning or post tensioning, lift-slab construction, tilt-up construction, and slip forms.

ANSI A10.10-1990 (R1998) ■
Safety Requirements for Temporary and Portable Space Heating Devices and Equipment

Scope: Provides minimum safety requirements for the selection, installation, operation and maintenance of space heating

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devices and equipment of temporary and portable design. Covers the heater unit and its integral parts through to their connection for fuel, but does not cover separate supply tanks or valving.

ANSI A10.11-1989 (R1998) ■
Safety Requirements for Safety Nets

Scope: Establishes safety requirements for the selection, installation, and use of personnel and debris nets during construction, repair, and demolition operations.

ANSI A10.12-1998 ■
Safety Requirements for Excavation

Scope: Establishes standards for the prevention of deaths, injuries and damage during or related to excavation operations.

ANSI A10.13-2001 ■
Safety Requirements for Steel Erection

Scope: Establishes safety requirements for the erection, handling, fitting, fastening, reinforcing and dismantling of structural steel, plate steel, steel joist, and metal deck at a final, in place field site during construction, maintenance, and dismantling operations.

ANSI A10.15-1995 ■
Safety Requirements for Dredging

Scope: Establishes safety requirements for the erection, handling, fitting, fastening, reinforcing and dismantling of structural steel, plate steel, steel joist, and metal deck at a final, in place field site during construction, maintenance, and dismantling operations.

ANSI A10.16-1995 (R2001) ■
Construction and Demolition Operations – Safety Requirements for Tunnels, Shafts, and Caissons

Scope: Establishes safety requirements pertaining to the construction tunnels, shafts, and caissons. The requirements set forth in this standard cover environmental control; related facilities; fire prevention; hoisting; haulage; and electrical, drilling and blasting, and compressed-air work. This standard is not intended for application to mining or quarry operations.

ANSI A10.17-1997 ■
Safe Operating Practices for Hot Mix Asphalt (HMA) Construction

Scope: Applies to hot mix asphalt operations for construction and resurfacing. This stan-

dard was administratively withdrawn, and is being resubmitted as a new standard.

ANSI A10.18-1996 ■
Safety Requirements for Temporary Floors, Holes, Wall Openings, Stairways and other Unprotected Edges in Construction and Demolition Operations

Scope: This standard prescribes rules and establishes safety requirements for the protection of employees and the public from hazards arising out of or associate with temporary floor holes and wall openings, stairs and other unprotected edges including low slope roofs during, construction and demolition activities.

ANSI A10.22-1990 ■
Rope-Guided and Nonguided Worker's Hoists – Safety Requirements

Scope: 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.

ANSI A10.27-1998 ■
Safety Requirements for Hot Mix Asphalt Facilities

Scope: Provides recommendations concerning the design, manufacture, operating processes, and equipment associated with the production of hot asphalt mixing (HMA) facilities. Included are raw material handling and storage, equipment operation to produce asphalt mixtures and the delivery of mixes into vehicles for transport to users. Routine maintenance housekeeping and allied functions are included.

ANSI A10.28-1998 ■
Work Platforms Suspended from Cranes or Derricks – Safety Requirements

Applies to platforms suspended from the load lines of cranes and derricks in order to (1) perform work at elevations that cannot normally be reached by other types of scaffolds or aerial work platforms or (2) transport personnel to elevations where other means of access are unsafe or impractical because of design or worksite conditions. Safe use of such equipment is dependent upon the user following all provisions contained herein. A competent person shall perform a job analysis on all equipment to be used to suspend platforms from cranes and derricks including

the platforms. A copy of the job analysis shall be maintained at the jobsite.

ANSI A10.31-1995 ■
Construction and Demolition Operations – Safety Requirements, Definitions, and Specifications for Digger Derricks

Establishes performance criteria for personal fall protection equipment and systems and provides guidelines, recommendations for their use an inspection. It includes, but is not limited to: fall arrest, restraint, positioning, climbing, descending, rescue, escape and training activities.

A10.32-19xx ■
Fall Protection System for Construction Industry Users

Establishes performance criteria for personal fall protection equipment and systems and provides guidelines, recommendations for their use and inspection. It includes, but is not limited to: fall arrest, restraint, positioning, climbing, descending, rescue, escape and training activities.

ANSI A10.33-1992 (R1998) ■
Safety and Health Program Requirements for Multi-Employer Projects

Scope: Sets forth the minimum elements and activities of a program that defines the duties and responsibilities of construction project where a single Project Constructor supervises and controls the project.

ANSI A10.34-2001 ■
Protection of the Public on and Adjacent to Construction Sites

Scope: Provides the recommended elements and activities on construction projects to provide protection for the public.

ANSI A10.37-1996 ■
Construction and Demolition Operations – Debris Net Systems Scope: Used During Construction and Demolition Operations

Scope: This standard establishes safety requirements for the design, selection, installation and use of debris net systems during construction, demolition operations, and for the temporary containment of debris from deteriorating structures.

**ANSI A10.38-2000 ■****Basic Elements of a Program to Provide a Safe and Healthful Work Environment**

Scope: Establishes the minimum elements of a program for protecting the safety and health of employees involved in construction activities.

ANSI A10.39-1996 ■**Construction Safety and Health Audit Program**

Identifies the minimum performance elements that when properly utilized will allow for a competent evaluation of a construction safety and health program. Further, it will identify those areas where systems, records and performance element are required in order to produce a quality audit.

ANSI A10.42-2000 ■**Rigging Qualifications and Responsibilities in the Construction Industry**

This standard establishes minimum criteria of knowledge and performance requirements for a qualified rigger in the construction industry. It is designed to assist in achieving reasonable safety of all persons and materials during the process of or as the result of rigging, lifting, or movement of loads.

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ANSI/ASME Standards (Hard Copy Only)

**ASME/ANSI B20
Conveyors Standards**

Safety standard for the design, construction, installation, maintenance, inspection, and operation of conveyors and conveying systems in relation to accident hazards.

B20.1-2000 ■

Safety Standard for Conveyors and Related Equipment

ASME/ANSI B29 Chains Standards

Standards for the dimensions of transmission and conveyor chains.

B29.2M-1982 (R1999) ■

Inverted Tooth (Silent) Chains and Sprockets

B29.8-2002 ■

Leaf Chains, Clevises and Sheaves

B29.10M-1997 (R2002) ■

Heavy Duty Offset Sidebar Power Transmission

B29.12M-1997 ■

Steel Bushed Rollerless Chains, Attachments, and Sprocket Teeth

B29.15M-1997 (R2003) ■

Steel Roller-Type Conveyor Chains, Attachments, and Sprocket Teeth

B29.17M-1998 ■

Chains, Attachments, and Sprockets for Power Transmission Conveying

B29.21M-1996 (R2003) ■

700 Class Welded Steel and Cast Chains, Attachments, and Sprockets for Water and Sewage Treatments Plants

B29.22M-2001 ■

Drop Forged Rivetless Chains, Sprocket Teeth Drive Chain/Drive Dogs

B29.23M-1985 (R1995) ■

Flexible Chain Coupling

B29.24M-2002 ■

Roller Load Chains for Overhead Hoists

B29.26-2001 ■

Fatigue Testing Power Transmission Roller Chain

B29.27-2002 ■

Single-Pitch and Double-Pitch Hollow Pin Conveyor Chains and Attachments

B29.100-2002 ■

Precision Power Transmission, Double-Pitch Power Transmission, and Double-Pitch Conveyor Roller Chains, Attachments, and Sprockets

B29.200-2001 ■

Welded-Steel-Type Mill Chains, Welded-Steel-Type Drag Chains, Attachments and Sprocket Teeth

B29.300-1998 ■

Agricultural, Detachable, and Pintle Chains, Attachments and Sprockets

B29.400-2001 ■

Combination, "H"-Type Mill Chains, and Sprockets

**ASME/ANSI B30
Cranes and Hoists**

Safety standards for the construction, installation, operation, inspection, and maintenance of jacks, cranes, monorails, derricks, hoists, hooks, slings, and cableways; and specification standards for hoists.

B30.1-1998 ■

Jacks

B30.2-2001 ■

Overhead and Gantry Cranes (Top Running Bridge, Single or Multiple Girder, Top Running Trolley Hoist)

B30.3-1996 ■

Construction Tower Cranes

B30.4-2003 ■

Portal, Tower, and Pedestal Cranes

B30.5-200 ■

Mobile and Locomotive Cranes

**B30.6-2003 ■**

Derricks

B30.7-2001 ■

Base Mounted Drum Hoists

B30.8-1999 ■

Floating Cranes and Floating Derricks

B30.901996 ■

Slings

B30.10-1999 ■

Hooks

B30.11-1998 ■

Monorails and Underhung Cranes

B30.12-2001 ■

Handling Loads Suspended from Rotorcraft

B30.13-2003 ■

Storage/Retrieval (S/R) Machines and Associated Equipment

B30.14-1996 ■

Side Boom Tractors

B30.16-2003 ■

Overhead and Gantry Cranes (Top Running Bridge, Single Girder, Underhung Hoist)

B30.17-2003 ■

Overhead and Gantry Cranes (Top Running Bridge, Single Girder, Underhung Hoist)

B30.18-1998 ■

Stacker Cranes (Top or Under Running Bridge, Multiple Girder with Top or Under Running Trolley Hoist)

B30.19-2000 ■

Cableways

B30.20-1999 ■

Below-the Hook Lifting Devices

B30.21-1999 ■

Manually Lever-Operated Hoists

B30.22-2000 ■

Articulating Boom Cranes

B30.23-1998 ■

Personnel Lifting Systems

B30.25-2003 ■

Scrap and Material Handlers

HST-1-1999 ■

Performance Standard for Electric Chain Hoists

HST-2-1999 ■

Performance Standard for Hand Chain Manually

HST-3-1999 ■

Performance Standard for Manually Lever-Operated Chain Hoists

HST-4-1999 ■

Performance Standard for Overhead Electric Wire Rope Hoists

HST-5-1999 ■

Performance Standard for Air Chain Hoists

HST-6-1999 ■

Performance Standard for Air Wire Rope Hoists

ASME/ANSI B56 Industrial Trucks

Safety Standards relating to the elements of design, operation, and maintenance; also the standardization relating to principal dimensions to facilitate interchangeability, test methods, and test procedures of industrial trucks.

B56.1-2000 ■

Safety Standard for High Lift and Low Lift Trucks

B56.5-1993 (R2000) ■

Safety Standard for Guided Industrial Vehicles and Automated Functions of Manned Industrial Vehicles

B56.6-2002 ■

Safety Standard for Rough Terrain Forklift Trucks

B56.8-1993 ■

Safety Standard for Personnel and Burden Carriers

B56.9-1992 (R2000) ■

Safety Standard for Operator-Controlled Industrial Tow Trucks

B56.10-1992 (R2000) ■

Safety Standard for Manually Propelled High Lift Industrial Trucks

B56.11.1-1992 (R2000) ■

Double Race or Bi-Level Swivel and Rigid Industrial Casters

B56.11.4-1992 (R2000) ■

Hook-Type Forks and Fork Carriers for Powered Industrial Forklift Trucks

B56.11.5-1992 (R2000) ■

Measurement of Sound Emitted by Low Lift, High Lift, and Rough Terrain Powered Industrial Trucks

B56.11.6-1992 (R2000) ■

Evaluation of Visibility from Powered Industrial Trucks

B56.11.7-1998 ■

Liquefied Petroleum Gas (LPG) Fuel Cylinders (Horizontal or Vertical) Mounting – Liquid Withdrawal – for Powered Industrial Trucks

OSHA Regulations

Crane and Derrick OSHA regulations (SubPart N) are still being discussed and are in the process of being updated.

AEGIS CORP. can forward the latest on this process. Just send us an email to aegis@safetyone.com with a note asking us to email any materials from this update process and we will keep you informed.



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Matthew J. Burkart, P.E.
Michael McCann, Ph.D., CIH
Daniel Paine, CSE

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- Inspection checklists
- Examples of malfunction and accidents
- OSHA regulations and industry standards for specific equipment
- And more!

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About the Authors

Matthew J. Burkart, P.E. is president of his own consulting firm, Aegis Corporation. He has been involved in construction litigation and has served as an expert witness for OSHA and many of the country's most well-known law firms. A widely published author, he also serves on many committees governing the construction industry.

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Daniel M. Paine, CSE has extensive knowledge in the field of fall protection. He has served as president of Sinco, one of the major fall prevention device manufacturers and providers. Currently, he is a consultant, and president of Innovative Safety, LLC. He serves on many committees and is highly regarded among his peers.



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