



AMERICAN NATIONAL STANDARD

*ANSI/ASSE A10.28-1998 (R2004)
Safety Requirements for
Work Platforms Suspended
from Cranes or Derricks—
American National Standard
for Construction and
Demolition Operations*

ANSI/ASSE A10.28-1998 (R2004)



AMERICAN SOCIETY OF
SAFETY ENGINEERS

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American National Standard
for Construction and Demolition Operations

Safety Requirements for Work Platforms Suspended from Cranes or Derricks

Secretariat

American Society of Safety Engineers

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Foreword (This Foreword is not a part of American National Standard A10.28-1998 (R2004)).

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.

- A10.2 Safety, Health, and Environmental Training (under development)
- A10.3 Powder-Actuated Fastening Systems
- A10.4 Personnel Hoists and Employee Elevators
- A10.5 Material Hoists (under development)
- 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 and Debris 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 Floor Holes, Wall Openings, Stairways, and Other Unprotected Edges
- A10.19 Pile Installation and Extraction Operations (under development)
- A10.20 Ceramic Tile, Terrazzo, and Marble Work
- A10.21 Proper Cleaning and Disposal of Contaminated Work Clothing
- A10.22 Rope-Guided and Nonguided Workers' Hoists
- A10.23 Back Injury Prevention Programs (under development)
- A10.24 Roofing (under development)
- A10.25 Sanitation in Construction (under development)
- A10.26 Emergency Procedures for Construction Sites (under development)
- A10.27 Hot Mix Asphalt Facilities
- A10.28 Work Platforms Suspended from Cranes or Derricks
- A10.29 Aerial Lifts in Construction (under development)
- A10.30 Workplace Security
- A10.31 Digger-Derricks
- A10.32 Fall Protection Systems for Construction Industry Users
- A10.33 Safety and Health Program Requirements for Multi-Employer Projects
- A10.34 Public Protection
- A10.35 High Pressure Hydro Blasting (under development)
- A10.36 Railroad Construction Safety (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 Ergonomics in Construction (under development)
- A10.41 Equipment Operator and Supervisor Qualifications and Responsibilities (under development)
- A10.42 Rigging Qualifications and Responsibilities in the Construction Industry
- A10.43 Confined Spaces in Construction (under development)
- A10.44 Lockout/Tagout in Construction (under development)
- A10.45 Disaster Response Preparedness for Construction Workers (under development)
- A10.46 Hearing Loss Prevention (under development)
- A10.47 Highway Construction Safety (under development)
- A10.48 Communication Tower Erection (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.

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 paragraph 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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**AMERICAN NATIONAL STANDARD A10.28
SAFETY REQUIREMENTS FOR WORK PLATFORMS
SUSPENDED FROM CRANES OR DERRICKS**

1. SCOPE

This standard applies to platforms suspended from the load lines of cranes or 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.

1.1 Application. This standard shall apply to platforms suspended from the load lines of cranes or 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.

1.2 General Requirements. The use of a crane or derrick to hoist employees on a personnel platform is prohibited, except when the erection, use, and dismantling by conventional means, of reaching the worksite would be more hazardous or is not possible because of structural design or worksite conditions. Conventional means are considered to be such means as a personnel hoist, ladder, stairway, aerial lift, elevating work platform, or scaffold. A competent person shall perform a job safety analysis (JSA) on all equipment to be used to suspend platforms from cranes and derricks including the platforms. A copy of the JSA shall be maintained at the jobsite.

1.3 Exclusion. This standard shall not apply to platforms that are welded, bolted, pinned, or otherwise directly attached to a crane boom.

2. DEFINITIONS

2.1 competent person: One who is capable of identifying existing and predictable hazards in the surroundings or working conditions that are unsanitary, hazardous, or dangerous to employees, and who has the authorization to take prompt corrective measures to eliminate them.

2.2 controlled load lowering: System or device on the power train, other than the load hoist brake, that can regulate the rate of speed of the hoist mechanism during lowering.

2.3 live boom: Boom in which lowering is controlled by a brake without aid from other lowering-retarding devices.

2.4 manufacturer: Crane or derrick manufacturer.

2.5 rated capacity: Maximum live load the object has been designed to carry.

2.6 rotation resistant wire rope: Wire rope consisting of a left lay inner rope covered by regular lay strands laid in the direction opposite to the inner rope.

2.7 shall: Denotes a mandatory requirement.

2.8 should: Denotes a recommendation.

2.9 two-blocking: Condition in which the load block or hook assembly is drawn tightly to the boom point.

2.10 two-blocking damage prevention: System that will stall when two-blocking occurs without causing damage to the hoist rope or crane machinery components.

2.11 qualified engineer: One who has a professional engineering registration from any state and who has successfully demonstrated the ability to design mechanical or structural objects.