



# AMERICAN NATIONAL STANDARD

*ANSI/ASSE A10.22 – 2007 (R2012)*  
*Safety Requirements for*  
*Rope-Guided and Non-Guided*  
*Workers' Hoists*

*American National Standard*  
*for Construction and*  
*Demolition Operations*

*ANSI/ASSE A10.22 – 2007 (R2012)*



AMERICAN SOCIETY OF  
SAFETY ENGINEERS

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**ANSI®**  
**ANSI/ASSE A10.22 – 2007 (R2012)**

**American National Standard  
Construction and Demolition Operations**

**Safety Requirements for  
Rope-Guided and Non-Guided Workers' Hoists**

Secretariat

**American Society of Safety Engineers**  
1800 East Oakton Street  
Des Plaines, Illinois 60018-2187

**Approved July 3, 2012**

**American National Standards Institute, Inc.**

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Published September 2012 by

**American Society of Safety Engineers**  
**1800 East Oakton Street**  
**Des Plaines, Illinois 60018-2187**  
**(847) 699-2929 • [www.asse.org](http://www.asse.org)**

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Printed in the United States of America

## **Foreword** (This Foreword is not a part of American National Standard A10.22 – 2007 (R2012).)

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 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 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 (under development)
- A10.22 Rope-Guided and Non-Guided Workers' Hoists
- A10.23 Safety Requirements for the Installation of Drilled Shafts (under development)
- 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)
- A10.31 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
- A10.37 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
- A10.41 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
- A10.46 Hearing Loss Prevention

A10.47 Highway Construction Safety  
A10.48 Communication Tower Erection (under development)  
A10.49 Control of Health Hazards (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 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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*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 it approved this, the A10 Committee had the following members:

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## AMERICAN NATIONAL STANDARD A10.22 SAFETY REQUIREMENTS FOR ROPE-GUIDED AND NON-GUIDED WORKERS' HOISTS

### 1. GENERAL

**1.1 Scope.** This standard 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, such as:

- 1) Work in chimneys, chimney linings, silos, towers, stacks, shafts and similar projects.
- 2) When necessary, to hoist or lower a person in a boat-swain's chair or equivalent and the height is too great for practical use of a block and falls (see Section 12).
- 3) For transportation of materials, but not concurrently with hoisting of personnel.

The requirements of this standard are in addition to, or in lieu of, applicable provisions specified by ANSI/ASSE A10.5, *Safety Requirements for Material Hoists*.

**1.2 Purpose.** This standard is intended to provide safety for those requiring the use of rope-guided and non-guided worker's hoists in special situations as set forth in 1.1.

**1.3 Exceptions.** In cases of practical difficulties, unnecessary hardships or new development, exceptions to the literal requirements 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.

**1.4 Design Qualifications.** Rope-guided worker's hoists shall be designed by a qualified engineer competent in this field, and shall be constructed and rated in accordance with such design and the limitations of this standard.

**1.5 Training.** Prior to using the hoisting system described herein, both supervisory and operation personnel shall be instructed in the provisions of this standard and in the operational characteristics relating to the particular worker's hoisting system in use. Recommendations of the equipment manufacturer and system designer(s) shall be followed. The equipment manufacturer shall provide instructional material for training on their equipment. Records of training shall be maintained.

### 2. REFERENCED AND RELATED STANDARDS AND PUBLICATIONS

**2.1 Referenced American National Standards.** This standard is intended to be used with all applicable American National Standards. When these referenced standards are superseded by a revision approved by the American National Standards Institute, Inc. the most recent revision shall apply:

ANSI/AWS D1.1/D1.1M, *Structural Welding Code - Steel*

ANSI/NFPA 70, *National Electrical Code*

**2.2 Referenced Publications.** This standard is also intended to be used with the following publications:

AISC, *Steel Construction Manual*