



AMERICAN NATIONAL STANDARD

*ANSI/ASSE A10.7 – 2011
Safety Requirements for
Transportation, Storage, Handling
and Use of Commercial Explosives
and Blasting Agents*

*American National Standard
for Construction and
Demolition Operations*

ANSI/ASSE A10.7 – 2011



AMERICAN SOCIETY OF
SAFETY ENGINEERS

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ANSI/ASSE A10.7 – 2011

**American National Standard
Construction and Demolition Operations**

**Safety Requirements for
Transportation, Storage, Handling and Use
of Commercial Explosives and Blasting Agents**

Secretariat

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

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Foreword (This Foreword is not a part of American National Standard A10.7-2011.)

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

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Appendices: Appendices are included in most standards to provide the user with additional information related to the subject of the standard. Appendices are not part of the approved standard.

Committee Meetings: The A10 Committee meets twice a year. Persons wishing to attend a meeting should contact the Secretariat for information.

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 this standard was approved, the A10 Committee had the following members:

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**AMERICAN NATIONAL STANDARD A10.7
SAFETY REQUIREMENTS FOR TRANSPORTATION, STORAGE, HANDLING
AND USE OF COMMERCIAL EXPLOSIVES AND BLASTING AGENTS**

1. GENERAL

1.1 Scope.

1.1.1 This standard is applicable to the transportation, storage, handling, and use of commercial explosives and blasting agents in the construction industry.

1.1.2 This standard does not supersede legal requirements, or laws, or regulations by local, state or federal agencies, pertaining to the transportation, storage, handling and use of commercial explosives and blasting agents.

1.1.3 The following exceptions should be noted. The requirements of this standard shall not be applied to pyrotechnics, small-arms ammunition or explosive power packs in the form of explosive-activated or explosive-charged construction devices such as explosive rivets, explosive bolts, explosive charges for driving pins or studs and cartridges for explosive-actuated power tools.

1.2 Purpose. The purpose of this standard is to provide 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.

1.3 Exceptions. In cases of practical difficulties, unnecessary hardships or new developments, exceptions to the literal requirements may permit the use of other devices or methods, but only when it is clearly indicated by a qualified person that the equivalent protection is thereby secured.

2. REFERENCES

2.1 Referenced American National Standard.

This standard is intended for use in conjunction with the ANSI/NFPA 70, *National Electrical Code*. When this referenced standard is superseded by a revision approved by the American National Standards Institute, Inc, the revision shall apply.

2.2 Referenced Institute of Makers of Explosives Standards.

This standard is also intended for use with the following standards. They are available from the Institute of Makers of Explosives, 1120 19th Street, NW, Suite 310, Washington, DC 20036-3605.

IME Publication No. 2 (June 1991), *The American Table of Distances*

IME Publication No. 12 (February 2007), *Glossary of Commercial Explosives Industrial Terms*

IME Publication No. 20 (July 2001), *Safety Guide for the Prevention of Radio Frequency Radiation Hazards in the Use of Commercial Electric Detonators (Blasting Caps)*

IME Publication No. 27 (January 2005), *Security in Manufacturing, Transportation, Storage and Use of Commercial Explosives*

2.3 Referenced Governmental Publications.

This standard is also intended for use with the following publications. They are available from U.S. Government Printing Office,