



AMERICAN NATIONAL STANDARD

*ANSI/ASSE A10.9-1997
Safety Requirements for
Concrete and Masonry Work –*

*American National Standard
for Construction and
Demolition Operations*

ANSI/ASSE A10.9-1997



AMERICAN SOCIETY OF
SAFETY ENGINEERS

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A10.9-1997

Safety Requirements for Concrete and Masonry Work –

American National Standard for
Construction and Demolition Operations

Secretariat

American Society of Safety Engineers

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Foreword (This Foreword is not part of American National Standard for Concrete and Masonry Work Safety Requirements, A10.9-1997.)

This standard establishes safety requirements pertaining to concrete construction and masonry work in construction.

This standard is one in a series of safety standards formulated by the American National Standards Committee on Safety in Construction and Demolition Operations, A10. It is expected that the standards will find a major application in industry, serving as a guide to contractors, labor, and equipment manufacturers. For the convenience of the users, existing and proposed standards in the A10 series are listed below:

- A10.3 Powder Actuated Fastening Systems
- A10.4 Personnel Hoists and Employee Elevators for Construction and Demolition Operations
- 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 Safety Nets
- A10.12 Excavation (under development)
- A10.13 Steel Erection
- A10.14 Requirements for Safety Belts, Harnesses, Lanyards, and Lifelines
- 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
- A10.22 Rope-Guided and Nonguided Worker's Hoists
- A10.24 Roofing (under development)
- A10.27 Asphalt Mixing Plants (under development)
- A10.28 Work-Platforms Suspended from Cranes or Derricks
- A10.31 Digger-Derricks
- A10.32 Fall Protection System for Construction Industry Users (under development)
- A10.33 Safety and Health Program Requirements for Multi-Employer Projects
- A10.34 Public Protection (under development)
- A10.35 High Pressure Hydro Blasting (under development)
- A10.37 Debris Nets
- A10.38 Basic Elements of a Program to Provide a Safe and Healthful Work Environment
- A10.39 Safety and Health Audit Program
- A10.41 Equipment Operator and Supervisor Qualifications and Responsibilities (under development)
- A10.42 Rigging Supervisor, Riggers, Signalmen Qualifications and Responsibilities (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 periodically (usually 5 years from date of the standard) to the standard to incorporate changes which 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 a description of the reason for the proposal. Pertinent doc-

umentation 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 paragraph number(s) and phrased as a request for 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.

Approval: Neither the A10 Committee nor American National Standards Institute (ANSI) "approves," "certifies," "rates," or "endorses" any item, construction, proprietary device, or activity.

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

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American National Standard for Construction and Demolition Operations—

Safety Requirements for Concrete and Masonry Work

1 General

1.1 Scope. This standard establishes safety requirements pertaining to concrete construction and masonry work in construction. The requirements contained in this standard cover all on-site concrete construction and masonry work including design, erection, operation, and maintenance of aggregate processing plants, concrete mixing plants, and conveyances. It also contains safety requirements pertinent to the specialty concrete operations of prestressing by pretensioning or post-tensioning, lift-slab construction, tilt-up construction, and slipforms.

1.2 Purpose. The purpose of this standard is to establish reasonable and practical safety requirements and practices for concrete construction and masonry work.

1.3 Exceptions. The approving authority may grant exception from the requirements of this standard or permit the use of other devices or methods which provide safety features equal to or exceeding this standard.

1.4 Interpretation. In cases where additional explanation or interpretation of this standard is required, such requests should be referred to Standards Committee A10, American Society of Safety Engineers, 1800 East Oakton Street, Des Plaines, Illinois 60018-2187.

1.5 Application. This standard, which represents the consensus of a cross section of the industry, should form the basis for construction safety regulations established by federal, state, and municipal agencies, as well as for safety standards adopted by insurance companies and trade associations.

1.6 Fall Prevention

1.6.1 A fall prevention plan is required for all personnel exposed to fall hazards of 6 feet or more.

1.6.2 Guardrails, mid rails and toeboards shall be installed on open sides and ends of ramps, platforms, runways, or walkways 6 feet or more above the ground or floor level in accordance with ANSI A10.8 and/or A10.18.

1.7 Personal Protective Equipment. Personal protective equipment shall be provided by the employer and used by the employee.

1.8 Design and Drawings. Structural concrete, not on grade, and vertical walls except for single-story residential basement walls shall require formwork drawings prepared by an engineer, a copy of which shall be available at the job site. Design, specifications, erection, and reshoring drawings shall be prepared or approved by an engineer.

1.9 Project Safety Plan

1.9.1 All work covered by this standard shall be conducted in accordance with the project constructor's safety plan. The plan shall be approved by the project constructor prior to the start of work and address safety and health hazards of each phase of construction. Only employees who have been trained in accordance with the plan will be permitted to work. If hazards not covered in the plan are encountered, safe work practices approved by the project constructor shall be developed to ensure safe working conditions.