AMERICAN NATIONAL STANDARD

ANSI/ASSE A10.9-2004
Safety Requirements for Masonry and Concrete Work—American National Standard for Construction and Demolition Operations

ANSI/ASSE A10.9-2004

AMERICAN SOCIETY OF SAFETY ENGINEERS

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American National Standard
for Construction and Demolition Operations

Safety Requirements for Masonry and Concrete Work

Secretariat

American Society of Safety Engineers
1800 East Oakton Street
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Foreword

(This Foreword is not a part of American National Standard A10.9-2004.)

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.

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 a 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.

Appendixes: Appendixes 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 published, the A10 Committee had the following members:

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Contents

SECTION ..... PAGE

1. General 10
   - 1.1 Scope 10
   - 1.2 Purpose 10
   - 1.3 Exceptions 10
   - 1.4 Interpretation 10
   - 1.5 Application 10
   - 1.6 Fall Prevention 10
   - 1.7 Personal Protective Equipment 10
   - 1.8 Design and Drawings 10
   - 1.9 Project Safety Plan 10
   - 1.10 Housekeeping 11
   - 1.11 Access 11
   - 1.12 Machine Guarding, Lockout/Tagout 11
   - 1.13 Prohibited Uses of Reinforcing Steel 11
2. Definitions 11
3. Reinforcing Steel 13
   - 3.1 General 13
   - 3.2 Rigging 13
   - 3.3 Guying 13
   - 3.4 Wire Mesh 13
4. Cement Handling 13
   - 4.1 General 13
   - 4.2 Bulk Cement Transfer Facilities 13
   - 4.3 Storage Facilities 13
5. Concrete Placement 14
   - 5.1 General 14
   - 5.2 Plant and Equipment 14
   - 5.3 Cutting and Sandblasting 15
   - 5.4 Concrete Placement 15
   - 5.5 Patching, Finishing and Curing 16
   - 5.6 Winter Protection 16
6. Verticle Shoring 16
   - 6.1 General 16
   - 6.2 Loads and Design 16
   - 6.3 Field Practices 17
   - 6.4 Removal 18
   - 6.5 Tubular Welded Frame Shoring 18
   - 6.6 Tube and Coupler Tower Shoring 19
   - 6.7 Single Post Shores 19
7. Formwork 20
   - 7.1 General 20
   - 7.2 Loads 21
   - 7.3 Formwork Design 22
   - 7.4 Placing and Removal of Forms 22
   - 7.5 Vertical Slipforms 23
   - 7.6 Flying Deck Forms 23
   - 7.7 Horizontal Shoring Beams 24
8. Prestressed Concrete 25
   - 8.1 General 25
   - 8.2 Pretensioning and Post-tensioning 25
   - 8.3 Tendons 25
   - 8.4 Fitting 25
   - 8.5 Jacking 25

9. Precast Concrete 26
9.1 General 26
9.2 Storage 26
9.3 Handling and Erection 26
9.4 Temporary Support and Bracing 26
9.5 Falling Hazard 26
10. Lift-Slab Operations 26
10.1 General 26
10.2 Designing and Planning 27
10.3 Jacking Equipment 27
10.4 Uniform Lifting 27
10.5 Falling Hazard 27
10.6 Load Transfer 27
11. Masonry Construction 27
11.1 General 27
11.2 Handling and Storage of Masonry Materials 27
11.3 Masonry Saws 28
11.4 Masons' Scaffolds 28
11.5 Shoring and Bracing 28
11.6 Limited Access Zones 28
12. Referenced and Related Standards 29
12.1 Referenced American National Standards 29
12.2 Other References 30
12.3 Further Information 30
12.4 Document Sources 31

AMERICAN NATIONAL STANDARD A10.9
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.

1.9.2 The plan shall list all instances where an engineer or competent person is required to design, plan, supervise, test, or perform inspections of materials, and the process and sequence of placing materials, including