STANDARD & REFERENCE DOCUMENTS

American Concrete Institute [ACI]

116R-90 Cement and Concrete Terminology
117-90 Standard Specifications for Tolerances for Concrete and Materials
201.2R [Reapproved 1997] Guide to Durable Concrete
211.1-91 [Reapproved 1997] Selecting Proportions for Normal, Heavyweight and Mass Concrete
211.2-98/221.2-98 Standard Practice for Selecting Proportions for Structural Lightweight Concrete
211.3R-97 Guide for Selecting Proportions for No-Slump Concrete
211.5R-96 Guide for Submittal of Concrete Proportions
212.3R-91 Chemical Admixtures for Concrete
214.3R-88 [Re 1997] Simplified Version of the Recommended Practice for Evaluation of Strength Test Results of Concrete
216-97 Guide for Determining the Fire Endurance of Concrete Elements
216.1-97 Standard Method for Determining Fire Resistance of Concrete and Masonry Construction Assemblies
222R-96 Corrosion of Metals in Concrete
223-98 Standard Practice for the Use of Shrinkage-Compensating Concrete
225R-99 Guide to the Selection and Use of Hydraulic Cements
229R-99 Controlled Low Strength Materials [CLSM]
301-99/301M-99 Standard Specification for Structural Concrete [Metric]
302.1R-96 Guide for Concrete Floor and Slab Construction
303R-91 Guide to Cast-in-Place Architectural Concrete Practice
304.2R-96 Placing Concrete by Pumping Methods
304.5R-91 batching, mixing and job control of lightweight concrete
305R-99 Hot Weather Concreting
306-1-90 Standard Specification for Cold Weather Concreting
308.92 Standard Practice for Curing Concrete
309R.96 Guide for Consolidation of Concrete
311.4R-00 Guide for Concrete Inspection
311.5R-97 Batch Plant Inspection and Field Testing of Ready Mix Concrete
318-02 Building Code Requirements for Structural Concrete
325.3R-87 Guide for Design of Foundations and Shoulders for Concrete Pavements
325.9R-91 Guide for Construction of Concrete Pavements and Bases
347R-94 Guide for Formwork for Concrete
357R-84 Guide for the Design and Construction of Fixed Offshore Concrete Structures
357.2R-88 State-of-the-Art Report on Barge-like Concrete Structures
360R-92 Design of Slabs on Grade
363.2R-98 Guide to Quality Control & Testing of High Strength Concrete
523.1R-92 Guide for Cast-in-Place Low Density Concrete
523.2R-96 Guide for Precast Cellular Concrete Floor, Roof and Wall Units
523.3R-93 Guide for Cellular Concrete above 50 pcf and for Aggregate Concrete Above 50 pcf with Compressive Strengths less than 2,500 psi
533R-93 Guide for Precast Concrete Wall Panels
544.1R-96 State-of-the-Art on Fiber Reinforced Concrete
544.2R-89 Measurement of Properties of Fiber Reinforced Concrete
544.3R-93 [Reapproved 1998] Guide for Specifying, Proportioning, Mixing, Placing of Finishing Steel Fiber Reinforced Concrete
544.4R-88 [Re. 1999] Design Considerations for Steel Fiber Reinforced Concrete
547R-79 Refractory Concrete State-of- the-Art Report
548.1R Guide for the Use of Polymers in Concrete
550R-96 Design Recommendations for Precast Concrete Structures
551R-92 Tilt-Up Concrete Structures
SP-2 Manual of Concrete Inspection
SP-4[95] Formwork for Concrete
SP-150 Controlled Low- Strength Materials
SP-7[91] ASTM Standards in ACI 301 & 318
SP-136 Structural Lightweight Aggregate Concrete Performance

ACI Technical Committee

211 Proportioning Concrete Mixtures
213 Lightweight Aggregate
216 Fire Resistance & Fire Protection of Structures
221 Aggregates
229 Controlled Low Strength Material
230 Soil Cement
308 Curing Concrete
523 Cellular Concrete

Precast / Prestressed Concrete Institute

Architectural Precast Concrete
PCI Design Handbook: Precast and Prestressed Concrete
State-of-the Art of Precast/Prestressed Sandwich Wall Panels [PCI Committee Report]

Portland Cement Association

PCA Design and Control of Concrete Mixtures

American Society for Testing and Materials [ASTM]

A185-01 Standard Specification for Steel Welded Wire Reinforcement, Plain, for Concrete
A674-00 Standard Practice for Polyethylene Encasement for Ductile Iron Pipe for Water or Other Liquids
C29/C29M-97 Standard Test Method for Bulk Density [Unit Weight] and Voids in Aggregate
C31/C31M-00 Standard Proportions for Making and Curing Concrete Test Specimens in the Field
C33-01 Standard Specifications for Concrete Aggregates
C34-96 Standard Specification for Structural Clay Load-Bearing Wall Tile
C40-99 Standard Test Method for Organic Impurities in Fine Aggregates for Concrete
C42/C42M-99 Standard Test Method for Obtaining and Testing Drilled Cores and Sawed Beams of Concrete
C55-01 Standard Specification for Concrete Brick
C56-96 Standard Specification for Structural Clay Non-Load-Bearing Tile
C70-00 Standard Test Method for Surface Moisture in Fine Aggregates
C78-00 Standard Test Method for Flexural Strength of Concrete [Using Beam with Third-Point Loading]
C90-01 Standard Specifications for Load-Bearing Concrete Masonry Units
C94/C94M-00e2 Standard Specifications for Ready-Mixed Concrete
C114-00 Standard Test Methods for Chemical Analysis of Hydraulic Cement
C118M-99 Standard Specification for Concrete Pipe for Irrigation or Drainage [Metric]
C123-98 Standard Test Method for Lightweight Particles in Aggregate
C125-00a Standard Terminology Relating to Concrete and Concrete Aggregate
ISO 1000:1992 SI units & recommendations for the use of their multiples and of certain other units
ISO 1063 Surface active agents - Determination of stability in hard water
ISO 1064 Surface active agents; determination of apparent density of pastes on filling
ISO 1182 Fire tests; Building materials; Non-combustibility test
ISO 1716 :2002 Reaction to fire tests for building products - Determination of the heat of combustion
ISO 1920:1976 Concrete tests - Dimensions, tolerances and applicability of test specimens
ISO 2076:1999 Textiles-man made fibers-Generic names
ISO 2131 Surface active agents - Simplified classification
ISO 2227 Formaldehyde solutions for industrial use _ Determination of formaldehyde content
ISO 2268 Surface active agents [non-ionic] - Determination of polyethylene glycols and non-ionic matter [adducts]
ISO 2736-1:1986 Concrete tests - Test specimens - Part 1 - Sampling of fresh concrete
ISO 2736-2:1986 Concrete Tests – Test specimens - Part 2 : Making and curing of test specimens for strength tests
ISO/TR 3814 Tests for measuring "reaction-to-fire" of building materials; Their development and application
ISO 3893:1977 Concrete - Classification by compressive strength
ISO/TR 3956 Principles of structural fire-engineering design with special regard to the connection between real fire exposure and the heating conditions of the standard fire-resistance test [ISO 834]
ISO 4012 Concrete - Determination of compressive strength of test specimen
ISO 4013 Concrete - Determination of flexural strength of test specimens
ISO 4103 Concrete - Classification of consistency
ISO 4108 Concrete - Determination of tensile splitting strength of test specimens
ISO 4109:1980 Fresh concrete - Determination of the consistency - slump test
ISO 4318 Surface active agents - Determination of water content - Azeotropic distillation method
ISO 4365 Liquid flow in open channels; Sediment in stream and canals; Determination of concentration, particle size distribution and relative density
ISO 4898 Cellular plastics; Specifications for rigid cellular materials used in the thermal insulation of buildings
ISO 5018 Refractory materials, Determination of true density
ISO 5657 Reaction to fire tests - Ignitability of building products using a radiant heat source
ISO/TR 5658-1 Reaction to fire tests - Spread of flame - Part 1: Guidance on flame spread
ISO/TR 5658-2 Reaction to fire tests - Spread of flame - Part 2: Lateral spread on building products in vertical configuration
ISO 5660-1 Fire tests; Reaction to fire; Part 1: Rate of heat release from building products
ISO 6060:1989 Water quality - Determination of the chemical oxygen demand
ISO 6240:1980 Performance standards in building - Contents and presentation
ISO 6241:1984 Performance standards in building - Principles for their preparation and factors to be considered
ISO 6274 Concrete - Sieve analysis of aggregates
ISO 6275:1982 Concrete hardened - Determination of density
ISO 6276 Concrete; compacted fresh; Determination of density
ISO 6388 Surface active agents - Determination of flow properties using a rotational viscometer
ISO 6512:1982 Building construction - Modular coordination - Story heights and room heights
ISO 6782:1982 Aggregates for concrete - Determination of bulk density
ISO 6783 Coarse aggregates for concrete; Determination of particle density and water absorption, Hydrostatic balance method
ISO 6784 Concrete - Determination of static modulus of elasticity in compression
ISO 6946:1996 Building components and building elements - Thermal resistance and thermal transmittance - Calculation method
ISO 7203-1 Fire extinguishing media - Foam concentrates - Part 1: Specification for low expansion foam concentrates for top application to water-immiscible liquids
ISO 7203-2 Fire extinguishing media - Foam concentrates - Part 2: Specification for medium and high expansion foam concentrates for top application to water-immiscible liquids
ISO 7203-3 Fire extinguishing media - Foam concentrates - Part 3: Specification for low expansion foam concentrates for top application to water-miscible liquids
ISO 7345 Thermal insulation; physical quantities and definitions
ISO 7361:1986 Performance standards in building - Presentation of performance levels of facades made of same - source components
ISO 7892:1998 Vertical building elements - Impact resistance tests -Impact bodies and general test procedures
ISO 8840 Refractory materials; determination of bulk density of granular materials [grain density]
ISO 9000-2000 Quality Management: Fundamentals on vocabulary
ISO 9001-2000 Quality Management Systems - Requirements
ISO/TR 9122-5 Toxicity testing of fire effluents; Part 5: Prediction of toxic effects of fire effluents
ISO 9194 Bases for design of structures; actions due to the self-weight of structures, non-structural elements and stored materials; density
ISO 9705 Fire tests; Full-scale room test for surface products
DIN 18122-2 Soil-investigation and testing - Part 2: Determination of the shrinkage limit
DIN 18136 Soil - Investigation and testing - unconfined compression test
DIN 18148 Lightweight concrete hollow-boards
DIN 18162 Lightweight concrete wallboards, unreinforced
DIN 18218 Pressure of fresh concrete on vertical formwork
DIN 51043 Testing of ceramic materials; unshaped refractory materials; Test of the characteristics of test pieces during or after firing
DIN 52170-1 Determination of composition of hardened concrete; general terms, sampling dry-bulk density
DIN 52251-5 Indirect methods of determining the frost resistance of roofing tiles; Determination of drying shrinkage and firing shrinkage
DIN 52450 Testing of inorganic non-metallic building materials: Determination of shrinkage and expansion on small specimens

Austrian Standards Institute [ON-Österreichisches Normungsinstitut]

OENORM B 3358-3 Non-load bearing interior wall systems-Part 3: Systems made of concrete blocks of normal-or light concrete
OENORM B 4200-11 Lightweight concrete - Production and quality control
OENORM EN 990 Test methods for verification of corrosion protection of reinforcement in autoclaved aerated concrete and lightweight aggregate concrete with open structure
OENORM EN 991 Determination of the dimensions of prefabricated reinforced components made of autoclaved aerated concrete or lightweight aggregate concrete with open structure
OENORM EN 992 Determination of the dry density of lightweight aggregate concrete with open structure
OENORM EN 1352 Determination of static modulus of elasticity under compression of autoclaved aerated concrete or lightweight aggregate concrete with open structure
OENORM EN 1354 Determination of compressive strength of lightweight aggregate concrete with open structure
OENORM EN 1355 Determination of creep strains under compression of autoclaved aerated concrete or lightweight aggregate concrete with open structure
OENORM EN 1356 Performance test for prefabricated reinforced components of autoclaved concrete or lightweight aggregate concrete with open structure under transverse load
OENORM EN 1520 Prefabricated components of lightweight aggregate concrete with open structure
OENORM EN 1521 Determination of flexural strength of lightweight aggregate concrete with open structure
OENORM EN 1739 Determination of shear strength for in-plane forces of joints between prefabricated components made of autoclaved aerated concrete or lightweight aggregate concrete with open structure
OENORM EN 1740 Performance test for prefabricated components made of autoclaved aerated concrete or lightweight aggregate concrete with open structure under predominantly longitudinal load [vertical components]
OENORM EN 1741 Determination of shear strength for out-of-plane forces of joints between prefabricated components made of autoclaved aerated concrete or lightweight aggregate concrete with open structure
OENORM EN 1742 Determination of shear strength between different layers of multilayer components made of autoclaved aerated concrete or lightweight aggregate concrete with open structure
OENORM 4414-1 Earthwork and foundation engineering; Analysis of soil specimen bulk density [Lab method]
OENORM 4414-2 Geotechnical engineering [foundation engineering] analysis of soil specimens, determination of bulk density

Japanese International Standards [JIS] [JSA]

JSI A 1161: Testing methods for bulk specific gravity, water content, absorption and compressive strength of cellular concrete

International Bureau for the Standardization of Man-Made Fibers [BISFA]

Terminology of Fibers

NOTICE

*Standards/Specifications are constantly changing. Check with organizations for most recent revisions or latest publications.