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C125-21a Standard Terminology Relating to Concrete and Concrete Aggregates

C1176/C1176M-20 Standard Practice for Making Roller-Compacted Concrete in Cylinder Molds Using a Vibrating Table

C156-20 Standard Test Method for Water Loss [from a Mortar Specimen] Through Liquid Membrane-Forming Curing Compounds for Concrete

C1585-20 Standard Test Method for Measurement of Rate of Absorption of Water by Hydraulic-Cement Concretes

C1067-20 Standard Practice for Conducting a Ruggedness Evaluation or Screening Program for Test Methods for Construction Materials

C881/C881M-20a Standard Specification for Epoxy-Resin-Base Bonding Systems for Concrete

C1897-20 Standard Test Methods for Measuring the Reactivity of Supplementary Cementitious Materials by Isothermal Calorimetry and Bound Water Measurements

C928/C928M-20a Standard Specification for Packaged, Dry, Rapid-Hardening Cementitious Materials for Concrete Repairs

C1152/C1152M-20 Standard Test Method for Acid-Soluble Chloride in Mortar and Concrete

C1439-19 Standard Test Methods for Evaluating Latex and Powder Polymer Modifiers for use in Hydraulic Cement Concrete and Mortar

C779/C779M-19 Standard Test Method for Abrasion Resistance of Horizontal Concrete Surfaces

C1138M-19 Standard Test Method for Abrasion Resistance of Concrete (Underwater Method)

C1698-19 Standard Test Method for Autogenous Strain of Cement Paste and Mortar

C1524-20 Standard Test Method for Water-Extractable Chloride in Aggregate (Soxhlet Method)

C1580-20 Standard Test Method for Water-Soluble Sulfate in Soil

C1059/C1059M-21 Standard Specification for Latex Agents for Bonding Fresh To Hardened Concrete

C1579-21 Standard Test Method for Evaluating Plastic Shrinkage Cracking of Restrained Fiber Reinforced Concrete (Using a Steel Form Insert)

R0031 Metric Practice Guide for Concrete and Concrete Aggregates (This is not an ASTM standard; available as PDF, only)

C979/C979M-16 Standard Specification for Pigments for Integrally Colored Concrete

C942/C942M-21 Standard Test Method for Compressive Strength of Grouts for Preplaced-Aggregate Concrete in the Laboratory

C1646/C1646M-16 Standard Practice for Making and Curing Test Specimens for Evaluating Resistance of Coarse Aggregate to Freezing and Thawing in Air-Entrained Concrete

C535-16 Standard Test Method for Resistance to Degradation of Large-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine

C88/C88M-18 Standard Test Method for Soundness of Aggregates by Use of Sodium Sulfate or Magnesium Sulfate

C1800/C1800M-16 Standard Test Method for Determining Density of Roller-Compacted Concrete Specimens Using the Gyratory Compactor

C1610/C1610M-21 Standard Test Method for Static Segregation of Self-Consolidating Concrete Using Column Technique

C131/C131M-20 Standard Test Method for Resistance to Degradation of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine

C1611/C1611M-21 Standard Test Method for Slump Flow of Self-Consolidating Concrete

C869/C869M-11(2016) Standard Specification for Foaming Agents Used in Making Preformed Foam for Cellular Concrete

C1622/C1622M-10(2016)e1 Standard Specification for Cold-Weather Admixture Systems

C1740-16 Standard Practice for Evaluating the Condition of Concrete Plates Using the Impulse-Response Method

C1768/C1768M-12(2017) Standard Practice for Accelerated Curing of Concrete Cylinders

C174/C174M-17 Standard Test Method for Measuring Thickness of Concrete Elements Using Drilled Concrete Cores

C823/C823M-12(2017) Standard Practice for Examination and Sampling of Hardened Concrete in Constructions

C1582/C1582M-11(2017)e1 Standard Specification for Admixtures to Inhibit Chloride-Induced Corrosion of Reinforcing Steel in Concrete

C1856/C1856M-17 Standard Practice for Fabricating and Testing Specimens of Ultra-High Performance Concrete

C1438-13(2017) Standard Specification for Latex and Powder Polymer Modifiers for use in Hydraulic Cement Concrete and Mortar

C157/C157M-17 Standard Test Method for Length Change of Hardened Hydraulic-Cement Mortar and Concrete

C1697-21 Standard Specification for Blended Supplementary Cementitious Materials

C1385/C1385M-10(2017) Standard Practice for Sampling Materials for Shotcrete

C1181/C1181M-17 Standard Test Methods for Compressive Creep of Chemical-Resistant Polymer Machinery Grouts

C441/C441M-17 Standard Test Method for Effectiveness of Pozzolans or Ground Blast-Furnace Slag in Preventing Excessive Expansion of Concrete Due to the Alkali-Silica Reaction

C1240-20 Standard Specification for Silica Fume Used in Cementitious Mixtures

C943-17 Standard Practice for Making Test Cylinders and Prisms for Determining Strength and Density of Preplaced-Aggregate Concrete in the Laboratory

C953-17 Standard Test Method for Time of Setting of Grouts for Preplaced-Aggregate Concrete in the Laboratory

C42/C42M-20 Standard Test Method for Obtaining and Testing Drilled Cores and Sawed Beams of Concrete

C172/C172M-17 Standard Practice for Sampling Freshly Mixed Concrete

C1451-18 Standard Practice for Determining Variability of Concrete-Making Materials From a Single Source

C566-19 Standard Test Method for Total Evaporable Moisture Content of Aggregate by Drying

C1218/C1218M-20 Standard Test Method for Water-Soluble Chloride in Mortar and Concrete

C260/C260M-10a(2016) Standard Specification for Air-Entraining Admixtures for Concrete

C1040/C1040M-16a Standard Test Methods for In-Place Density of Unhardened and Hardened Concrete, Including Roller Compacted Concrete, By Nuclear Methods

C567/C567M-19 Standard Test Method for Determining Density of Structural Lightweight Concrete

C1581/C1581M-18a Standard Test Method for Determining Age at Cracking and Induced Tensile Stress Characteristics of Mortar and Concrete under Restrained Shrinkage

C192/C192M-19 Standard Practice for Making and Curing Concrete Test Specimens in the Laboratory

C1741-18 Standard Test Method for Bleed Stability of Cementitious Post-Tensioning Tendon Grout

C685/C685M-17 Standard Specification for Concrete Made by Volumetric Batching and Continuous Mixing

C1798/C1798M-19 Standard Specification for Returned Fresh Concrete for Use in a New Batch of Ready-Mixed Concrete

C805/C805M-18 Standard Test Method for Rebound Number of Hardened Concrete

C341/C341M-18 Standard Practice for Preparation and Conditioning of Cast, Drilled, or Sawed Specimens of Hydraulic-Cement Mortar and Concrete Used for Length Change Measurements

C1339/C1339M-18 Standard Test Method for Flowability and Bearing Area of Chemical-Resistant Polymer Machinery Grouts

C233/C233M-18 Standard Test Method for Air-Entraining Admixtures for Concrete

C40/C40M-20 Standard Test Method for Organic Impurities in Fine Aggregates for Concrete

C143/C143M-20 Standard Test Method for Slump of Hydraulic-Cement Concrete

C136/C136M-19 Standard Test Method for Sieve Analysis of Fine and Coarse Aggregates

C938-19 Standard Practice for Proportioning Grout Mixtures for Preplaced-Aggregate Concrete

C1827-20 Standard Test Method for Determination of the Air-Entraining Admixture Demand of a Cementitious Mixture

R0030 Manual of Aggregate and Concrete Testing (This is not an ASTM standard; available as PDF, only)

C796/C796M-19 Standard Test Method for Foaming Agents for Use in Producing Cellular Concrete Using Preformed Foam

C294-19 Standard Descriptive Nomenclature for Constituents of Concrete Aggregates

C309-19 Standard Specification for Liquid Membrane-Forming Compounds for Curing Concrete

C670-15 Standard Practice for Preparing Precision and Bias Statements for Test Methods for Construction Materials

C1315-19 Standard Specification for Liquid Membrane-Forming Compounds Having Special Properties for Curing and Sealing Concrete

C702/C702M-18 Standard Practice for Reducing Samples of Aggregate to Testing Size

C295/C295M-19 Standard Guide for Petrographic Examination of Aggregates for Concrete

C586-19 Standard Test Method for Potential Alkali Reactivity of Carbonate Rocks as Concrete Aggregates (Rock-Cylinder Method)

C1890-19 Standard Test Method for K-slump of Freshly Mixed Concrete

C1708/C1708M-19 Standard Test Methods for Self-leveling Mortars Containing Hydraulic Cements

C1140/C1140M-11(2019) Standard Practice for Preparing and Testing Specimens from Shotcrete Test Panels

C513/C513M-11(2019) Standard Test Method for Obtaining and Testing Specimens of

Hardened Lightweight Insulating Concrete for Compressive Strength

C495/C495M-12(2019) Standard Test Method for Compressive Strength of Lightweight Insulating Concrete

C1604/C1604M-05(2019) Standard Test Method for Obtaining and Testing Drilled Cores of Shotcrete

C1542/C1542M-19 Standard Test Method for Measuring Length of Concrete Cores

C215-19 Standard Test Method for Fundamental Transverse, Longitudinal, and Torsional Resonant Frequencies of Concrete Specimens

C496/C496M-17 Standard Test Method for Splitting Tensile Strength of Cylindrical Concrete Specimens

C1609/C1609M-19a Standard Test Method for Flexural Performance of Fiber-Reinforced Concrete (Using Beam With Third-Point Loading)

C638-20 Standard Descriptive Nomenclature of Constituents of Aggregates for Radiation-Shielding Concrete

C637-20 Standard Specification for Aggregates for Radiation-Shielding Concrete

C1857/C1857M-19 Standard Test Method for Evaluating the Adhesion (Pull-Off) Strength of Concrete Repair and Overlay Mortar

C856/C856M-20 Standard Practice for Petrographic Examination of Hardened Concrete

C1107/C1107M-20 Standard Specification for Packaged Dry, Hydraulic-Cement Grout (Nonshrink)

C418-20 Standard Test Method for Abrasion Resistance of Concrete by Sandblasting

C1170/C1170M-20 Standard Test Method for Determining Consistency and Density of Roller-Compacted Concrete Using a Vibrating Table

C918/C918M-20 Standard Test Method for Measuring Early-Age Compressive Strength and Projecting Later-Age Strength

C1435/C1435M-20 Standard Practice for Molding Roller-Compacted Concrete in Cylinder Molds Using a Vibrating Hammer

C1583/C1583M-20 Standard Test Method for Tensile Strength of Concrete Surfaces and the Bond Strength or Tensile Strength of Concrete Repair and Overlay Materials by Direct Tension (Pull-off Method)

C1084-19 Standard Test Method for Portland-Cement Content of Hardened Hydraulic-Cement Concrete

C944/C944M-19 Standard Test Method for Abrasion Resistance of Concrete or Mortar Surfaces by the Rotating-Cutter Method

C1777-20 Standard Test Method for Rapid Determination of the Methylene Blue Value for Fine Aggregate or Mineral Filler Using a Colorimeter

C882/C882M-20 Standard Test Method for Bond Strength of Epoxy-Resin Systems Used With Concrete By Slant Shear

C1074-19e1 Standard Practice for Estimating Concrete Strength by the Maturity Method

C1550-20 Standard Test Method for Flexural Toughness of Fiber Reinforced Concrete (Using Centrally Loaded Round Panel)

C171-20 Standard Specification for Sheet Materials for Curing Concrete

C1712-20 Standard Test Method for Rapid Assessment of Static Segregation Resistance of Self-Consolidating Concrete Using Penetration Test

C70-20 Standard Test Method for Surface Moisture in Fine Aggregate

C293/C293M-16 Standard Test Method for Flexural Strength of Concrete (Using Simple

Beam With Center-Point Loading)

C232/C232M-21 Standard Test Method for Bleeding of Concrete

C1753/C1753M-21a Standard Practice for Evaluating Early Hydration of Hydraulic Cementitious Mixtures Using Thermal Measurements

C642-21 Standard Test Method for Density, Absorption, and Voids in Hardened Concrete

C311/C311M-22 Standard Test Methods for Sampling and Testing Fly Ash or Natural Pozzolans for Use in Portland-Cement Concrete

C78/C78M-22 Standard Test Method for Flexural Strength of Concrete (Using Simple Beam with Third-Point Loading)

C1383-15(2022) Standard Test Method for Measuring the P-Wave Speed and the Thickness of Concrete Plates Using the Impact-Echo Method

C1202-22e1 Standard Test Method for Electrical Indication of Concrete's Ability to Resist Chloride Ion Penetration

C469/C469M-22 Standard Test Method for Static Modulus of Elasticity and Poisson's Ratio of Concrete in Compression

C231/C231M-22 Standard Test Method for Air Content of Freshly Mixed Concrete by the Pressure Method

C1602/C1602M-22 Standard Specification for Mixing Water Used in the Production of Hydraulic Cement Concrete

C494/C494M-19e1 Standard Specification for Chemical Admixtures for Concrete

C989/C989M-22 Standard Specification for Slag Cement for Use in Concrete and Mortars

C802-14(2022) Standard Practice for Conducting an Interlaboratory Test Program to Determine the Precision of Test Methods for Construction Materials

C1723-16(2022) Standard Guide for Examination of Hardened Concrete Using Scanning Electron Microscopy

C940-22 Standard Test Method for Expansion and Bleeding of Freshly Mixed Grouts for Preplaced-Aggregate Concrete in the Laboratory

C939/C939M-22 Standard Test Method for Flow of Grout for Preplaced-Aggregate Concrete (Flow Cone Method)

C1556-22 Standard Test Method for Determining the Apparent Chloride Diffusion Coefficient of Cementitious Mixtures by Bulk Diffusion

C878/C878M-22 Standard Test Method for Restrained Expansion of Shrinkage-Compensating Concrete

C128-22 Standard Test Method for Relative Density (Specific Gravity) and Absorption of Fine Aggregate

C1812/C1812M-22 Standard Practice for Design of Journal Bearing Supports to be Used in Fiber Reinforced Concrete Beam Tests

C1866/C1866M-22 Standard Specification for Ground-Glass Pozzolan for Use in Concrete

C1603-23 Standard Test Method for Measurement of Solids in Water

C1709-22 Standard Guide for Evaluation of Alternative Supplementary Cementitious Materials (ASCM) for Use in Concrete

C597-22 Standard Test Method for Ultrasonic Pulse Velocity Through Concrete

C1679-22 Standard Practice for Measuring Hydration Kinetics of Hydraulic Cementitious Mixtures Using Isothermal Calorimetry

C618-23e1 Standard Specification for Coal Ash and Raw or Calcined Natural Pozzolan for Use in Concrete

C87/C87M-23 Standard Test Method for Effect of Organic Impurities in Fine Aggregate on Strength of Mortar

C403/C403M-23 Standard Test Method for Time of Setting of Concrete Mixtures by Penetration Resistance

C470/C470M-23 Standard Specification for Molds for Forming Concrete Test Cylinders Vertically

C827/C827M-23 Standard Test Method for Change in Height at Early Ages of Cylindrical Specimens of Cementitious Mixtures

C937-23 Standard Specification for Grout Fluidifier for Preplaced-Aggregate Concrete

C941-23 Standard Test Method for Water Retentivity of Grout Mixtures for Preplaced-Aggregate Concrete in the Laboratory

C94/C94M-23 Standard Specification for Ready-Mixed Concrete

C1567-23 Standard Test Method for Determining the Potential Alkali-Silica Reactivity of Combinations of Cementitious Materials and Aggregate (Accelerated Mortar-Bar Method)

C31/C31M-23 Standard Practice for Making and Curing Concrete Test Specimens in the Field

C884/C884M-23 Standard Test Method for Thermal Compatibility Between Concrete and an Epoxy-Resin Overlay

C1090/C1090M-23 Standard Test Method for Measuring Changes in Height of Cylindrical Specimens of Hydraulic-Cement Grout

C330/C330M-23 Standard Specification for Lightweight Aggregates for Structural Concrete

C331/C331M-23 Standard Specification for Lightweight Aggregates for Concrete Masonry Units

C332-23 Standard Specification for Lightweight Aggregates for Insulating Concrete

C641-23 Standard Test Method for Iron Staining Materials in Lightweight Concrete Aggregates

C1761/C1761M-23 Standard Specification for Lightweight Aggregate for Internal Curing of Concrete

C387/C387M-23 Standard Specification for Packaged, Dry, Combined Materials for Concrete and High Strength Mortar

C33/C33M-23 Standard Specification for Concrete Aggregates

C138/C138M-23 Standard Test Method for Density (Unit Weight), Yield, and Air Content (Gravimetric) of Concrete

C1116/C1116M-23 Standard Specification for Fiber-Reinforced Concrete

C29/C29M-23 Standard Test Method for Bulk Density ("Unit Weight") and Voids in Aggregate

C142/C142M-17(2023) Standard Test Method for Clay Lumps and Friable Particles in Aggregates

C1073-18(2023) Standard Test Method for Hydraulic Activity of Slag Cement by Reaction with Alkali

C1621/C1621M-17(2023) Standard Test Method for Passing Ability of Self-Consolidating Concrete by J-Ring

C1701/C1701M-17a(2023) Standard Test Method for Infiltration Rate of In Place Pervious Concrete

C617/C617M-23 Standard Practice for Capping Cylindrical Concrete Specimens

C873/C873M-23 Standard Test Method for Compressive Strength of Concrete Cylinders Cast in Place in Cylindrical Molds

C1231/C1231M-23 Standard Practice for Use of Unbonded Caps in Determination of Compressive Strength of Hardened Cylindrical Concrete Specimens

C173/C173M-23 Standard Test Method for Air Content of Freshly Mixed Concrete by the Volumetric Method

C1758/C1758M-23 Standard Practice for Fabricating Test Specimens with Self-Consolidating Concrete

C1810/C1810M-23 Standard Guide for Comparing Performance of Concrete-Making Materials Using Mortar Mixtures

C117-23 Standard Test Method for Materials Finer than 75- μ m (No. 200) Sieve in Mineral Aggregates by Washing

C1260-23 Standard Test Method for Potential Alkali Reactivity of Aggregates (Mortar-Bar Method)

E329-23 Standard Specification for Agencies Engaged in Construction Inspection, Testing, or Special Inspection

C1849/C1849M-23 Standard Test Method for Density and Air Content (Pressure Method) of Freshly Mixed Roller-Compacted Concrete

C1876-23 Standard Test Method for Bulk Electrical Resistivity or Bulk Conductivity of Concrete

C39/C39M-23 Standard Test Method for Compressive Strength of Cylindrical Concrete Specimens

C1105-23 Standard Test Method for Length Change of Concrete Due to Alkali-Carbonate Rock Reaction

C1797-23a Standard Specification for Ground Calcium Carbonate and Aggregate Mineral Fillers for use in Hydraulic Cement Concrete

C803/C803M-23 Standard Test Method for Penetration Resistance of Hardened Concrete

C123/C123M-23 Standard Test Method for Lightweight Particles in Aggregate

C1064/C1064M-23 Standard Test Method for Temperature of Freshly Mixed Hydraulic-Cement Concrete

C1778-23 Standard Guide for Reducing the Risk of Deleterious Alkali-Aggregate Reaction in Concrete

C1077-24 Standard Practice for Agencies Testing Concrete and Concrete Aggregates for Use in Construction and Criteria for Testing Agency Evaluation

C457/C457M-23a Standard Test Method for Microscopical Determination of Parameters of the Air-Void System in Hardened Concrete

C1293/C1293M-23a Standard Test Method for Determination of Length Change of Concrete Due to Alkali-Silica Reaction

C1803/C1803M-23 Standard Guide for Abrasion Resistance of Mortar Surfaces Using a Rotary Platform Abraser