



**USACE CERTIFICATE
OF
LABORATORY VALIDATION**



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has demonstrated, by abbreviated audit of its AASHTO accreditation, or by inspection of required records, equipment, procedures, facilities, and/or final reports, its proficiency to perform testing of construction materials, as established by the quality standards of AASHTO R 18 guidance and the requirements of the applicable ASTM standards.

THIS USACE CERTIFICATE OF LABORATORY VALIDATION IS ACCURATE AS OF ITS DATE AND TIME OF GENERATION:

27 JUN 2024 AT 07:43 HOURS

ALL METHODS LISTED ON THIS CERTIFICATE OF VALIDATION WILL EXPIRE ON 04/10/2025

PLEASE CONFIRM THE CURRENT VALIDATION STATUS OF THIS LABORATORY USING THE SEARCH FEATURE ON OUR PUBLIC WEBSITE: <https://mtc.erdcdren.mil>

Chad A. Gartrell, PE, Director
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AGGREGATE

Aggregate - C 29 - Unit Weight and Voids in Aggregate
Aggregate - C 40 - Organic Impurities
Aggregate - D 75 - Sampling
Aggregate - C 117 - Material Finer than 75 µm (No. 200) Sieve
Aggregate - C 123 - Lightweight Particles
Aggregate - C 127 - Specific Gravity & Absorption in Coarse Aggregate
Aggregate - C 128 - Specific Gravity & Absorption in Fine Aggregate
Aggregate - C 131 - Los Angeles Abrasion Resistance on Small-Size Coarse Aggregate
Aggregate - C 136 - Sieve Analysis of Aggregates
Aggregate - C 142 - Clay Lumps
Aggregate - E 329 - Standard Specification for Agencies Engaged in Construction Inspection, Testing, or Special Inspection
Aggregate - C 535 - Los Angeles Abrasion Resistance on Large Size Coarse Aggregate
Aggregate - C 566 - Total Moisture Content
Aggregate - C 702 - Reducing Samples to Testing Size
Aggregate - C 1077 - Concrete and Concrete Aggregate Testing Standards (Quality Standards)
Aggregate - C 1252 - Uncompacted Void Content of Fine Aggregate (as influenced by particle shape, surface texture, and grading)
Aggregate - D 2419 - Sand Equivalent Value
Aggregate - D 4791 - Flat and Elongated Particles in Course Aggregate
Aggregate - D 5821 - Percentage of Fractured Particles in Coarse Aggregate

CONCRETE

Concrete - C 31 - Making and Curing Test Specimens in the Field
Concrete - C 39 - Compressive Strength of Cylindrical Specimens
Concrete - C 138 - Unit Weight and Air Content by Gravimetric
Concrete - C 143 - Slump
Concrete - C 172 - Sampling
Concrete - C 231 - Air Content by Pressure ***required if C173 not performed***
Concrete - E 329 - Standard Specification for Agencies Engaged in Construction Inspection, Testing, or Special Inspection

Concrete - C 511 - Moist Cabinets, Moist Rooms, Water Storage Tanks
Concrete - C 617 - Capping Cylindrical Specimens
Concrete - C 1064 - Temperature of Concrete
Concrete - C 1077 - Concrete and Concrete Aggregate Testing Standards (Quality Standards)
Concrete - C 1231 - Unbonded Caps

GEOTEXTILES

Geotextiles - D 374 - ASTM Geosynthetic Testing Standard
Geotextiles - D 413 - ASTM Geosynthetic Materials Testing Standard
Geotextiles - D 751 - ASTM Geosynthetic Materials Testing Standard
Geotextiles - D 792 - ASTM Geosynthetic Materials Testing Standard
Geotextiles - D 882 - ASTM Geosynthetic Materials Testing Standard
Geotextiles - D 1004 - ASTM Geosynthetic Materials Testing Standard
Geotextiles - D 1204 - ASTM Geosynthetic Materials Testing Standard
Geotextiles - D 1238 - ASTM Geosynthetic Materials Testing Standard
Geotextiles - D 1505 - ASTM Geosynthetic Materials Testing Standard
Geotextiles - D 1593 - ASTM Geosynthetic Materials Testing Standard
Geotextiles - D 1603 - ASTM Geosynthetic Materials Testing Standard
Geotextiles - D 1777 - ASTM Geosynthetic Materials Testing Standard
Geotextiles - D 3015 - ASTM Geosynthetic Materials Testing Standard
Geotextiles - D 3776 - ASTM Geosynthetic Materials Testing Standard
Geotextiles - D 3786 - ASTM Geosynthetic Materials Testing Standard
Geotextiles - D 3787 - ASTM Geosynthetic Materials Testing Standard
Geotextiles - D 4218 - ASTM Geosynthetic Materials Testing Standard
Geotextiles - D 4491 - ASTM Geosynthetic Materials Testing Standard
Geotextiles - D 4533 - ASTM Geosynthetic Materials Testing Standard
Geotextiles - D 4595 - ASTM Geosynthetic Materials Testing Standard
Geotextiles - D 4632 - ASTM Geosynthetic Materials Testing Standard
Geotextiles - D 4716 - ASTM Geosynthetic Materials Testing Standard
Geotextiles - D 4751 - ASTM Geosynthetic Materials Testing Standard
Geotextiles - D 4833 - ASTM Geosynthetic Materials Testing Standard
Geotextiles - D 4884 - ASTM Geosynthetic Materials Testing Standard
Geotextiles - D 4885 - ASTM Geosynthetic Materials Testing Standard
Geotextiles - D 5035 - ASTM Geosynthetic Materials Testing Standard
Geotextiles - D 5199 - ASTM Geosynthetic Materials Testing Standard
Geotextiles - D 5261 - ASTM Geosynthetic Materials Testing Standard
Geotextiles - D 5321 - ASTM Geosynthetic Materials Testing Standard
Geotextiles - D 5596 - ASTM Geosynthetic Materials Testing Standard
Geotextiles - D 5884 - ASTM Geosynthetic Materials Testing Standard
Geotextiles - D 5887 - ASTM Geosynthetic Materials Testing Standard
Geotextiles - D 5890 - ASTM Geosynthetic Materials Testing Standard
Geotextiles - D 5891 - ASTM Geosynthetic Materials Testing Standard
Geotextiles - D 5993 - ASTM Geosynthetic Materials Testing Standard
Geotextiles - D 5994 - ASTM Geosynthetic Materials Testing Standard
Geotextiles - D 6214 - ASTM Geosynthetic Materials Testing Standard
Geotextiles - D 6241 - ASTM Geosynthetic Materials Testing Standard
Geotextiles - D 6243 - ASTM Geosynthetic Materials Testing Standard
Geotextiles - D 6364 - ASTM Geosynthetic Materials Testing Standard
Geotextiles - D 6392 - ASTM Geosynthetic Materials Testing Standard
Geotextiles - D 6496 - ASTM Geosynthetic Materials Testing Standard
Geotextiles - D 6636 - ASTM Geosynthetic Materials Testing Standard
Geotextiles - D 6637 - ASTM Geosynthetic Materials Testing Standard
Geotextiles - D 6693 - ASTM Geosynthetic Materials Testing Standard
Geotextiles - D 6766 - ASTM Geosynthetic Materials Testing Standard
Geotextiles - D 6768 - ASTM Geosynthetic Materials Testing Standard
Geotextiles - D 7003 - ASTM Geosynthetic Materials Testing Standard
Geotextiles - D 7004 - ASTM Geosynthetic Materials Testing Standard
Geotextiles - D 7005 - ASTM Geosynthetic Materials Testing Standard
Geotextiles - D 7179 - ASTM Geosynthetic Materials Testing Standard
Geotextiles - D 7737 - ASTM Geosynthetic Materials Testing Standard

ROCK

Rock - D 3967 - Tensile Strength, Splitting (Brazilian) Method
Rock - D 4543 - Preparing Rock Core Specimens and Determining Tolerances
Rock - D 4644 - Slake Durability of Shales and Weak Rocks
Rock - D 5607 - Laboratory direct Shear Tests on Rock Under Constant Normal
Rock - D 5731 - Point Load Index
Rock - D 7012 - Compressive Strength & Elastic Moduli of Rock Core Specimens - Method C - Uniaxial Comp. Strength

SOILS

Soils - G 51 - Measuring pH of Soil for Use in Corrosion Testing
Soils - G 57 - Field Measurement of Soil Resistivity Using the Wenner Four-Electrode Method
Soils - A 187 - Measurement of Soil Resistivity Using the Two-Electrode Soil Box Method
Soils - D 421 - Dry Preparation for Particle Size Distribution & Soil Constants
Soils - D 422 - Particle Size Analysis (Sieve and Hydrometer)
Soils - D 558 - Moisture-Density of Soil-Cement
Soils - D 559 - Wetting & Drying Soil-Cement
Soils - D 560 - Freezing & Thawing Soil-Cement
Soils - D 698 - Compaction Characteristics by Standard Effort
Soils - D 854 - Specific Gravity of Soils
Soils - D 1140 - Material Finer than 75 μ m (No. 200) Sieve
Soils - D 1557 - Compaction Characteristics by Modified Effort
Soils - D 1883 - CA Bearing Ratio (CBR)
Soils - D 2166 - Unconfined Compressive Strength
Soils - D 2216 - Water Content
Soils - D 2434 - Permeability of Granular Soils (Constant Head Method) (Withdrawn 2015)
Soils - D 2435 - One-Dimensional Consolidation Properties
Soils - D 2487 - Classification of Soils
Soils - D 2488 - Description & Identification of Soils (Visual-Manual Procedure)
Soils - D 2850 - Unconsolidated, Undrained Strength in Triaxial Compression
Soils - D 2974 - Moisture, Ash, & Organic Matter of Peat & Other Organic Soils
Soils - D 3080 - Direct Shear Test in Consolidated Drained Conditions
Soils - D 3740 - Soil and Rock Testing Standards (Quality Standard)
Soils - D 4253 - Maximum Index Density by Vibratory Table
Soils - D 4254 - Minimum Index Density
Soils - D 4318 - Liquid & Plastic Limits & Plasticity Index
Soils - D 4546 - One-Dimensional Swell or Settlement Potential
Soils - D 4643 - Determination of Water Content of Soil by Microwave Oven
Soils - D 4718 - Correction of Unit Weight and Water Content for Soils Containing Oversize Particles
Soils - D 4767 - Consolidated-Undrained Triaxial Compression
Soils - D 4829 - Expansion Index of Soils
Soils - D 4972 - pH of Soils
Soils - D 5084 - Hydraulic Conductivity using a Flexible Wall Permeameter
Soils - D 6913 - Particle-Size Distribution of Soils Using Sieve Analysis
Soils - D 6938 - Density and Water Content by Shallow Depth Nuclear Method
Soils - D 7928 - Fine Grain Distribution with Hydrometer