



USACE CERTIFICATE  
OF  
LABORATORY VALIDATION



**Chicago Testing Laboratory, Inc.**

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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:**

**18 DEC 2023 AT 15:29 HOURS**

**ALL METHODS LISTED ON THIS CERTIFICATE OF VALIDATION WILL EXPIRE ON 07/18/2024**

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  
USACE Materials Testing Center  
Vicksburg, Mississippi, USA

**AGGREGATE**

Aggregate - C 29 - Unit Weight and Voids in Aggregate  
Aggregate - C 40 - Organic Impurities  
Aggregate - C 117 - Material Finer than 75  $\mu\text{m}$  (No. 200) Sieve  
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 - E 329 - Standard Specification for Agencies Engaged in Construction Inspection, Testing, or Special Inspection  
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 3666 - Minimum Requirements for Agencies Testing and Inspecting Road and Paving Materials  
Aggregate - D 4791 - Flat and Elongated Particles in Course Aggregate  
Aggregate - D 6928 - Resistance of Coarse Agg to Degradation by Abrasion in the Micro-Deval Apparatus

**BITUMINOUS**

Bituminous - E 329 - Standard Specification for Agencies Engaged in Construction Inspection, Testing, or Special Inspection  
Bituminous - D 1856 - Recovery of Asphalt by Absorption  
Bituminous - D 2041 - Theoretical Maximum Specific Gravity & Density (Rice)  
Bituminous - D 2171 - Viscosity by Vacuum Capillary Viscometer  
Bituminous - D 2172 - Quantitative Extraction  
Bituminous - D 2726 - Bulk Specific Gravity and Density  
Bituminous - D 2950 - Density of Bituminous Concrete in Place by Nuclear Methods  
Bituminous - D 3203 - Percent Air Voids  
Bituminous - D 3549 - Thickness or Height of Compacted Asphalt Mixture Specimens  
Bituminous - D 3666 - Minimum Requirements for Agencies Testing and Inspecting Road and Paving Materials

Bituminous - D 4125 - Asphalt Content by Nuclear Method  
Bituminous - D 4867 - Effect of Moisture  
Bituminous - D 5404 - Asphalt Recovery by Rotary Evaporator  
Bituminous - D 5444 - Mechanical Size Analysis of Extracted Aggregate  
Bituminous - D 6307 - Asphalt Content of Hot-Mix Asphalt by Ignition Method  
Bituminous - D 6390 - Determination of Draindown Characteristics in Uncompacted Asphalt Mixtures  
Bituminous - D 6752 - Bulk Specific Gravity and Density of Comp Asphalt - Automatic Vacuum Sealing Method  
Bituminous - D 6925 - Relative Density of Asphalts by Superpave Gyrotory Compactor

## CONCRETE

Concrete - C 31 - Making and Curing Test Specimens in the Field  
Concrete - C 39 - Compressive Strength of Cylindrical Specimens  
Concrete - C 78 - Flexural Strength by Third Point Loading  
Concrete - C 138 - Unit Weight and Air Content by Gravimetric  
Concrete - C 143 - Slump  
Concrete - C 172 - Sampling  
Concrete - C 173 - Air Content by Volumetric \*\*\*required if C231 not performed\*\*\*  
Concrete - C 231 - Air Content by Pressure \*\*\*required if C173 not performed\*\*\*  
Concrete - C 293 - Flexural Strength by Center Point Loading  
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

## SOILS

Soils - E 329 - Standard Specification for Agencies Engaged in Construction Inspection, Testing, or Special Inspection  
Soils - D 421 - Dry Preparation for Particle Size Distribution & Soil Constants  
Soils - D 422 - Particle Size Analysis (Sieve and Hydrometer)  
Soils - D 698 - Compaction Characteristics by Standard Effort  
Soils - D 854 - Specific Gravity of Soils  
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 2435 - One-Dimensional Consolidation Properties  
Soils - D 2850 - Unconsolidated, Undrained Strength in Triaxial Compression  
Soils - D 2974 - Moisture, Ash, & Organic Matter of Peat & Other Organic Soils  
Soils - D 3740 - Soil and Rock Testing Standards (Quality Standard)  
Soils - D 4318 - Liquid & Plastic Limits & Plasticity Index  
Soils - D 4767 - Consolidated-Undrained Triaxial Compression  
Soils - D 6938 - Density and Water Content by Shallow Depth Nuclear Method