



USACE CERTIFICATE  
OF  
LABORATORY VALIDATION



**NASHnal Soil Testing, LLC**

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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:**

**15 FEB 2022 AT 15:14 HOURS**

**ALL METHODS LISTED ON THIS CERTIFICATE OF VALIDATION WILL EXPIRE ON 07/14/2023**

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 - Opt - Unit Weight and Voids in Aggregate  
Aggregate - D 75 - Opt - Sampling  
Aggregate - C 117 - Req - Material Finer than 75  $\mu\text{m}$  (No. 200) Sieve  
Aggregate - C 127 - Req - Specific Gravity & Absorption in Coarse Aggregate  
Aggregate - C 128 - Req - Specific Gravity & Absorption in Fine Aggregate  
Aggregate - C 136 - Req - Sieve Analysis of Aggregates  
Aggregate - E 329 - Opt - Standard Specification for Agencies Engaged in Construction Inspection, Testing, or Special Inspection  
Aggregate - C 566 - Opt - Total Moisture Content  
Aggregate - C 702 - Opt - Reducing Samples to Testing Size  
Aggregate - C 1077 - Opt - Concrete and Concrete Aggregate Testing Standards (Quality Standards)  
Aggregate - D 3666 - Opt - Minimum Requirements for Agencies Testing and Inspecting Road and Paving Materials

**BITUMINOUS**

Bituminous - E 329 - Opt - Standard Specification for Agencies Engaged in Construction Inspection, Testing, or Special Inspection  
Bituminous - D 2041 - Req - Theoretical Maximum Specific Gravity & Density (Rice)  
Bituminous - D 2172 - Req - Quantitative Extraction  
Bituminous - D 2726 - Req - Bulk Specific Gravity and Density  
Bituminous - D 2950 - Req - Density of Bituminous Concrete in Place by Nuclear Methods  
Bituminous - D 3203 - Req - Percent Air Voids  
Bituminous - D 3666 - Opt - Minimum Requirements for Agencies Testing and Inspecting Road and Paving Materials  
Bituminous - D 4867 - Req - Effect of Moisture  
Bituminous - D 5444 - Req - Mechanical Size Analysis of Extracted Aggregate  
Bituminous - D 6307 - Req - Asphalt Content of Hot-Mix Asphalt by Ignition Method  
Bituminous - D 6925 - Req - Relative Density of Asphalts by Superpave Gyrotory Compactor

**CONCRETE**

Concrete - C 31 - Req - Making and Curing Test Specimens in the Field  
Concrete - C 39 - Req - Compressive Strength of Cylindrical Specimens  
Concrete - C 138 - Req - Unit Weight and Air Content by Gravimetric  
Concrete - C 143 - Req - Slump  
Concrete - C 172 - Req - Sampling  
Concrete - C 173 - Req - Air Content by Volumetric \*\*\*required if C231 not performed\*\*\*  
Concrete - C 192 - Opt - Making and Curing Test Specimens in Laboratory  
Concrete - C 231 - Req - Air Content by Pressure \*\*\*required if C173 not performed\*\*\*  
Concrete - C 293 - Opt - Flexural Strength by Center Point Loading  
Concrete - E 329 - Opt - Standard Specification for Agencies Engaged in Construction Inspection, Testing, or Special Inspection  
Concrete - C 511 - Opt - Moist Cabinets, Moist Rooms, Water Storage Tanks  
Concrete - C 1064 - Req - Temperature of Concrete  
Concrete - C 1077 - Opt - Concrete and Concrete Aggregate Testing Standards (Quality Standards)  
Concrete - C 1231 - Opt - Unbonded Caps

## SOILS

Soils - D 421 - Req - Dry Preparation for Particle Size Distribution & Soil Constants  
Soils - D 422 - Req - Particle Size Analysis  
Soils - D 698 - Req - Compaction Characteristics by Standard Effort  
Soils - D 1140 - Req - Material Finer than 75  $\mu$ m (No. 200) Sieve  
Soils - D 1557 - Req - Compaction Characteristics by Modified Effort  
Soils - D 2166 - Req - Unconfined Compressive Strength  
Soils - D 2216 - Req - Water Content  
Soils - D 2434 - Opt - Permeability of Granular Soils (Constant Head Method) (Withdrawn 2015)  
Soils - D 2487 - Req - Classification of Soils  
Soils - D 2488 - Req - Description & Identification of Soils (Visual-Manual Procedure)  
Soils - D 2850 - Req - Unconsolidated, Undrained Strength in Triaxial Compression  
Soils - D 2974 - Req - Moisture, Ash, & Organic Matter of Peat & Other Organic Soils  
Soils - D 3740 - Opt - Soil and Rock Testing Standards (Quality Standard)  
Soils - D 4318 - Req - Liquid & Plastic Limits & Plasticity Index  
Soils - D 5084 - Req - Hydraulic Conductivity using a Flexible Wall Permeameter  
Soils - D 6938 - Req - Density and Water Content by Shallow Depth Nuclear Method

## SPRAYED FIRE RESISTIVE

Sprayed Fire Resistive - E 329 - Opt - Standard Specification for Agencies Engaged in Construction Inspection, Testing, or Special Inspection  
Sprayed Fire Resistive - E 605 - Opt - Thickness and Density of Sprayed Fire Resistive Material (SFRM) Applied to Structural Members  
Sprayed Fire Resistive - E 736 - Opt - Cohesion Adhesion of Sprayed Fire Resistive Materials Applied to Structural Members