



# CERTIFICATE OF ACCREDITATION



## FHWA-Central Federal Lands Highway Division

in

### Denver, Colorado, USA

has demonstrated proficiency for the testing of construction materials and has conformed to the requirements established in AASHTO R 18 and the AASHTO Accreditation policies established by the AASHTO Committee on Materials and Pavements.

The scope of accreditation can be viewed on the Directory of AASHTO Accredited Laboratories ([aashtoresource.org](https://aashtoresource.org)).

A handwritten signature in black ink, appearing to read 'Jim Tymon', written over a horizontal line.

Jim Tymon,  
AASHTO Executive Director

A handwritten signature in black ink, appearing to read 'Matt Linneman', written over a horizontal line.

Matt Linneman,  
AASHTO COMP Chair

This certificate was generated on 04/28/2026 at 7:04 AM Eastern Time. Please confirm the current accreditation status of this laboratory at [aashtoresource.org/aap/accreditation-directory](https://aashtoresource.org/aap/accreditation-directory)



# SCOPE OF AASHTO ACCREDITATION FOR:

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## Quality Management System

| Standard:               |  | Accredited Since: |
|-------------------------|--|-------------------|
| R18                     | Establishing and Implementing a Quality System for Construction Materials Testing Laboratories   | 03/01/1989        |
| ISO/IEC 17025           | General Requirements for the Competence of Testing and Calibration Laboratories  | 11/15/2001        |
| C1077 (Aggregate)       | Laboratories Testing Concrete and Concrete Aggregates  | 01/10/2011        |
| C1077 (Concrete)        | Laboratories Testing Concrete and Concrete Aggregates  | 01/10/2011        |
| D3666 (Aggregate)       | Minimum Requirements for Agencies Testing and Inspecting Road and Paving Materials   | 01/10/2011        |
| D3666 (Asphalt Binder)  | Minimum Requirements for Agencies Testing and Inspecting Road and Paving Materials   | 01/10/2011        |
| D3666 (Asphalt Mixture) | Minimum Requirements for Agencies Testing and Inspecting Road and Paving Materials   | 01/10/2011        |
| D3740 (Soil)            | Minimum Requirements for Agencies Engaged in Testing and/or Inspection of Soil and Rock as Used in Engineering Design and Construction | 01/12/2022        |
| E329 (Aggregate)        | Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction                         | 01/10/2011        |
| E329 (Asphalt Binder)   | Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction                         | 01/10/2011        |
| E329 (Asphalt Mixture)  | Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction                         | 01/10/2011        |
| E329 (Concrete)         | Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction                         | 01/10/2011        |
| E329 (Soil)             | Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction                         | 01/12/2022        |



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## Asphalt Binder

### Standard:

### Accredited Since:

|       |   |            |
|-------|---|------------|
| R28   | Accelerated Aging of Asphalt Binder Using a Pressurized Aging Vessel                              | 03/01/1989 |
| T51   | Ductility of Bituminous Materials   | 03/01/1989 |
| T228  | Specific Gravity (Relative Density) of Asphalt Cement   | 03/01/1989 |
| T240  | Rolling Thin-Film Oven Testing  | 03/01/1989 |
| T301  | Elastic Recovery Test of Bituminous Materials by Means of a Ductilometer                          | 03/01/1989 |
| T313  | Determining the Flexural Creep Stiffness of Asphalt Binder Using the Bending Beam Rheometer (BBR) | 03/01/1989 |
| T315  | Determining the Rheological Properties of Asphalt Binder Using a Dynamic Shear Rheometer (DSR)    | 03/01/1989 |
| T316  | Viscosity Determination of Asphalt Binder Using Rotational Viscometer                             | 03/01/1989 |
| T350  | Multiple Stress Creep and Recovery (MSCR)   | 09/30/2016 |
| D70   | Specific Gravity (Relative Density) of Asphalt Cement   | 03/01/1989 |
| D113  | Ductility of Bituminous Materials   | 03/01/1989 |
| D2872 | Rolling Thin-Film Oven Testing  | 03/01/1989 |
| D4402 | Viscosity Determination of Asphalt Binder Using Rotational Viscometer                             | 03/01/1989 |
| D6084 | Elastic Recovery Test of Bituminous Materials by Means of a Ductilometer                          | 03/01/1989 |
| D6648 | Determining the Flexural Creep Stiffness of Asphalt Binder Using the Bending Beam Rheometer (BBR) | 03/01/1989 |
| D7175 | Determining the Rheological Properties of Asphalt Binder Using a Dynamic Shear Rheometer (DSR)    | 03/01/1989 |
| D7405 | Multiple Stress Creep and Recovery (MSCR)   | 03/01/1989 |



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## Emulsified Asphalt

| <b>Standard:</b>                                  | <b>Accredited Since:</b> |
|---|--------------------------|
| T59 Aggregate Coating                             | 03/01/1989               |
| T59 Particle Charge                               | 03/01/1989               |
| T59 Residue by Evaporation                        | 03/01/1989               |
| T59 Settlement and Storage Stability              | 03/01/1989               |
| T59 Sieve Test                                    | 03/01/1989               |
| T59-T72 Saybolt Furol Viscosity at 25°C (77°F)    | 03/01/1989               |
| T59-T72 Saybolt Furol Viscosity at 50°C (122°F)   | 03/01/1989               |
| D6930 Settlement and Storage Stability            | 03/01/1989               |
| D6933 Sieve Test                                  | 03/01/1989               |
| D6934 Residue by Evaporation                      | 03/01/1989               |
| D6998 Aggregate Coating                           | 03/01/1989               |
| D7402 Particle Charge                             | 03/01/1989               |
| D7496-D88 Saybolt Furol Viscosity at 25°C (77°F)  | 03/01/1989               |
| D7496-D88 Saybolt Furol Viscosity at 50°C (122°F) | 03/01/1989               |



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**Asphalt Mixture**

| <b>Standard:</b>  | <b>Accredited Since:</b>   |
|-------------------|--|
| R30               | Mixture Conditioning of Hot Mix Asphalt (HMA) 09/30/2016   |
| R35               | Superpave Volumetric Design for Hot Mix Asphalt (HMA) 09/30/2016   |
| R47               | Reducing Samples of Hot-Mix Asphalt to Testing Size 03/01/1989   |
| R79               | Rapid Drying of Compacted Asphalt Mixture Specimens Using Vacuum Drying Apparatus 09/01/2021                                     |
| R97               | Sampling Bituminous Paving Mixtures 09/01/2021   |
| T30               | Mechanical Analysis of Extracted Aggregate 03/01/1989  |
| T166              | Bulk Specific Gravity of Compacted Hot Mix Asphalt Using Saturated Surface-Dry Specimens 03/01/1989                              |
| T167              | Compressive Strength of Hot Mix Asphalt 03/01/1989   |
| T209              | Maximum Specific Gravity of Hot Mix Asphalt Paving Mixtures 03/01/1989   |
| T246              | Resistance to Deformation and Cohesion of Bituminous Mixtures by Means of Hveem Apparatus 10/24/2014                             |
| T247              | Preparation of Test Specimens of Bituminous Mixtures by Means of California Kneading Compactor 03/01/1989                        |
| T269              | Percent Air Voids in Compacted Dense and Open Bituminous Paving Mixtures 03/01/1989  |
| T283              | Resistance of Compacted Mixtures to Moisture Induced Damage 03/01/1989   |
| T305              | Draindown Characteristics of HMA 10/24/2014  |
| T308              | Determining the Asphalt Content of Hot Mix Asphalt (HMA) by the Ignition Method 03/01/1989                                       |
| T312              | Preparing and Determining the Density of Hot Mix Asphalt (HMA) Specimens by Means of the Superpave Gyration Compactor 03/01/1989 |
| T329              | Moisture Content of Hot-Mix Asphalt (HMA) by Oven Method 03/01/1989  |
| T331              | Bulk Specific Gravity of Compacted Bituminous Mixtures Using Automatic Vacuum Sealing Method 03/01/1989                          |
| D979              | Sampling Bituminous Paving Mixtures 09/01/2021   |
| D1074             | Compressive Strength of Hot Mix Asphalt 03/01/1989   |
| D1075             | Effect of Water on Cohesion of Compacted Bituminous Mixtures 03/01/1989  |
| D1560 (Stability) | Resistance to Deformation of Bituminous Mixtures by Means of Hveem Apparatus 03/01/1989  |
| D1561             | Preparation of Test Specimens of Bituminous Mixtures by Means of California Kneading Compactor 03/01/1989                        |



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**Asphalt Mixture (Continued)**

| <b>Standard:</b> | <b>Accredited Since:</b>  |            |
|------------------|---|------------|
| D2041            | Maximum Specific Gravity of Hot Mix Asphalt Paving Mixtures   | 03/01/1989 |
| D2726            | Bulk Specific Gravity of Compacted Hot Mix Asphalt Using Saturated Surface-Dry Specimens                              | 03/01/1989 |
| D3203            | Percent Air Voids in Compacted Dense and Open Bituminous Paving Mixtures  | 03/01/1989 |
| D3549            | Thickness or Height of Compacted Bituminous Paving Mixture Specimens  | 09/01/2021 |
| D3665            | Random Sampling of Construction Materials   | 09/01/2021 |
| D4867            | Resistance of Compacted Mixtures to Moisture Induced Damage   | 03/01/1989 |
| D5444            | Mechanical Analysis of Extracted Aggregate  | 03/01/1989 |
| D6307            | Determining the Asphalt Content of Hot Mix Asphalt (HMA) by the Ignition Method                                       | 03/01/1989 |
| D6390            | Draindown Characteristics of HMA  | 10/24/2014 |
| D6752            | Bulk Specific Gravity of Compacted Bituminous Mixtures Using Automatic Vacuum Sealing Method                          | 03/01/1989 |
| D6925            | Preparing and Determining the Density of Hot Mix Asphalt (HMA) Specimens by Means of the Superpave Gyrotory Compactor | 03/01/1989 |
| D6931            | Indirect Tensile Strength (IDT)   | 03/01/1989 |
| D7227            | Rapid Drying of Compacted Asphalt Mixture Specimens Using Vacuum Drying Apparatus                                     | 09/01/2021 |



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## Soil

### Standard:

### Accredited Since:

|       |   |            |
|-------|---|------------|
| R58   | Dry Preparation of Disturbed Soil and Soil Aggregate Samples for Test                             | 03/01/1989 |
| R74   | Wet Preparation of Disturbed Soil Samples for Test  | 03/01/1989 |
| T89   | Determining the Liquid Limit of Soils (Atterberg Limits)  | 03/01/1989 |
| T90   | Plastic Limit of Soils (Atterberg Limits)   | 03/01/1989 |
| T99   | The Moisture-Density Relations of Soils Using a 5.5 lb [2.5 kg] Rammer and a 12 in. [305 mm] Drop | 03/01/1989 |
| T100  | Specific Gravity of Soils   | 03/01/1989 |
| T180  | Moisture-Density Relations of Soils Using a 10 lb [4.54 kg] Rammer and an 18 in. [457 mm] Drop    | 03/01/1989 |
| T190  | Resistance R-Value and Expansion Pressure of Compacted Soils                                      | 03/01/1989 |
| T265  | Laboratory Determination of Moisture Content of Soils   | 03/01/1989 |
| T267  | Determination of Organic Content in Soils by Loss on Ignition                                     | 06/21/2012 |
| T288  | Minimum Soil Resistivity  | 10/24/2014 |
| T289  | pH of Soils for Corrosion Testing   | 10/24/2014 |
| T311  | Grain-Size Analysis of Granular Soil Materials  | 03/01/1989 |
| D421  | Dry Preparation of Disturbed Soil and Soil Aggregate Samples for Test                             | 03/01/1989 |
| D698  | The Moisture-Density Relations of Soils Using a 5.5 lb [2.5 kg] Rammer and a 12 in. [305 mm] Drop | 03/01/1989 |
| D854  | Specific Gravity of Soils   | 03/01/1989 |
| D1140 | Amount of Material in Soils Finer than the No. 200 (75- $\mu$ m) Sieve                            | 03/01/1989 |
| D1557 | Moisture-Density Relations of Soils Using a 10 lb [4.54 kg] Rammer and an 18 in. [457 mm] Drop    | 03/01/1989 |
| D2216 | Laboratory Determination of Moisture Content of Soils   | 03/01/1989 |
| D2487 | Classification of Soils for Engineering Purposes (Unified Soil Classification System)             | 03/01/1989 |
| D2488 | Description and Identification of Soils (Visual-Manual Procedure)                                 | 03/01/1989 |
| D2844 | Resistance R-Value and Expansion Pressure of Compacted Soils                                      | 03/01/1989 |
| D2974 | Determination of Organic Content in Soils by Loss on Ignition                                     | 06/21/2012 |



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**Soil (Continued)**

**Standard:**

**Accredited Since:**

|   |            |
|---|------------|
| D4318 Determining the Liquid Limit of Soils (Atterberg Limits)                    | 03/01/1989 |
| D4318 Plastic Limit of Soils (Atterberg Limits)                                   | 03/01/1989 |
| D4643 Determination of Water (Moisture) Content of Soil by Microwave Oven Heating | 09/30/2016 |



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**Rock**

**Standard:**

**Accredited Since:**

|                  |   |            |
|------------------|---|------------|
| D4543            | Preparing Rock Core as Cylindrical Test Specimens and Verifying Conformance to Dimensional and Shape Tolerances | 03/05/2025 |
| D7012 (Method C) | Compressive Strength of Rock Core Specimens (Method C)  | 03/05/2025 |



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## Aggregate

| Standard:             |   | Accredited Since: |
|-----------------------|---|-------------------|
| R76                   | Reducing Samples of Aggregate to Testing Size   | 03/01/1989        |
| R90                   | Sampling Aggregate  | 10/24/2014        |
| T11                   | Materials Finer Than 75- $\mu$ m (No. 200) Sieve in Mineral Aggregates by Washing                       | 03/01/1989        |
| T19                   | Bulk Density ("Unit Weight") and Voids in Aggregate   | 03/01/1989        |
| T21                   | Organic Impurities in Fine Aggregates for Concrete  | 03/01/1989        |
| T27                   | Sieve Analysis of Fine and Coarse Aggregates  | 03/01/1989        |
| T37                   | Sieve Analysis of Mineral Filler for Road and Paving Materials  | 03/01/1989        |
| T84                   | Specific Gravity (Relative Density) and Absorption of Fine Aggregate                                    | 03/01/1989        |
| T85                   | Specific Gravity and Absorption of Coarse Aggregate   | 03/01/1989        |
| T96                   | Resistance to Abrasion of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine | 03/01/1989        |
| T100 (Mineral Filler) | Specific Gravity of Mineral Filler on Asphalt Mixture Designs   | 03/08/2019        |
| T104                  | Soundness of Aggregate by Use of Sodium Sulfate or Magnesium Sulfate                                    | 03/01/1989        |
| T112                  | Clay Lumps and Friable Particles in Aggregate   | 03/01/1989        |
| T176                  | Plastic Fines in Graded Aggregates and Soils by Use of the Sand Equivalent Test                         | 03/01/1989        |
| T255                  | Total Moisture Content of Aggregate by Drying   | 03/01/1989        |
| T304                  | Uncompacted Void Content of Fine Aggregate (Influenced by Shape, Texture, and Grading)                  | 03/01/1989        |
| T335                  | Determining the Percentage of Fractured Particles in Coarse Aggregate                                   | 10/24/2014        |
| C29                   | Bulk Density ("Unit Weight") and Voids in Aggregate   | 03/01/1989        |
| C40                   | Organic Impurities in Fine Aggregates for Concrete  | 03/01/1989        |
| C88                   | Soundness of Aggregate by Use of Sodium Sulfate or Magnesium Sulfate                                    | 03/01/1989        |
| C117                  | Materials Finer Than 75- $\mu$ m (No. 200) Sieve in Mineral Aggregates by Washing                       | 03/01/1989        |
| C127                  | Specific Gravity and Absorption of Coarse Aggregate   | 03/01/1989        |
| C128                  | Specific Gravity (Relative Density) and Absorption of Fine Aggregate                                    | 03/01/1989        |



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**Aggregate (Continued)**

| <b>Standard:</b> |  | <b>Accredited Since:</b> |
|------------------|--|--------------------------|
| C131             | Resistance to Abrasion of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine    | 03/01/1989               |
| C136             | Sieve Analysis of Fine and Coarse Aggregates   | 03/01/1989               |
| C142             | Clay Lumps and Friable Particles in Aggregate  | 03/01/1989               |
| C535             | Resistance to Degradation of Large-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine | 03/01/1989               |
| C566             | Total Moisture Content of Aggregate by Drying  | 03/01/1989               |
| C702             | Reducing Samples of Aggregate to Testing Size  | 03/01/1989               |
| C1252            | Uncompacted Void Content of Fine Aggregate (Influenced by Shape, Texture, and Grading)                     | 03/01/1989               |
| D75              | Sampling Aggregate   | 10/24/2014               |
| D546             | Sieve Analysis of Mineral Filler for Road and Paving Materials   | 03/01/1989               |
| D2419            | Plastic Fines in Graded Aggregates and Soils by Use of the Sand Equivalent Test                            | 03/01/1989               |
| D4791            | Flat Particles, Elongated Particles, or Flat and Elongated Particles in Coarse Aggregate                   | 03/01/1989               |
| D5821            | Determining the Percentage of Fractured Particles in Coarse Aggregate                                      | 03/01/1989               |



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## Concrete

| Standard:                               |   | Accredited Since: |
|---|---|-------------------|
| M201                                    | Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes | 01/25/2013        |
| R39                                     | Making and Curing Concrete Test Specimens in the Laboratory   | 05/01/1989        |
| R60                                     | Sampling Freshly Mixed Concrete   | 05/01/1989        |
| R100 (Cylinders)                        | Making and Curing Concrete Test Specimens in the Field  | 05/01/1989        |
| R115                                    | Mechanical Mixing of Hydraulic Cement Pastes and Mortars of Plastic Consistency                             | 07/01/2024        |
| T22                                     | Compressive Strength of Cylindrical Concrete Specimens  | 05/01/1989        |
| T24 (Testing Drilled Cores of Concrete) | Testing Drilled Cores of Concrete   | 07/15/2015        |
| T119                                    | Slump of Hydraulic Cement Concrete  | 05/01/1989        |
| T121                                    | Density (Unit Weight), Yield, and Air Content of Concrete   | 05/01/1989        |
| T148                                    | Measuring Thickness of Concrete Elements Using Drilled Concrete Cores                                       | 07/01/2024        |
| T152                                    | Air Content of Freshly Mixed Concrete by the Pressure Method  | 05/01/1989        |
| T196                                    | Air Content of Freshly Mixed Concrete by the Volumetric Method  | 05/01/1989        |
| T231 (8000 psi and below)               | Capping Cylindrical Concrete Specimens  | 03/11/2021        |
| T303                                    | Potential Alkali Reactivity of Aggregates (Mortar-Bar Method)   | 07/15/2015        |
| T309                                    | Temperature of Freshly Mixed Portland Cement Concrete   | 05/01/1989        |
| C31 (Cylinders)                         | Making and Curing Concrete Test Specimens in the Field  | 05/01/1989        |
| C39                                     | Compressive Strength of Cylindrical Concrete Specimens  | 05/01/1989        |
| C42 (Testing Drilled Cores of Concrete) | Testing Drilled Cores of Concrete   | 05/01/1989        |
| C138                                    | Density (Unit Weight), Yield, and Air Content of Concrete   | 05/01/1989        |
| C143                                    | Slump of Hydraulic Cement Concrete  | 05/01/1989        |
| C172                                    | Sampling Freshly Mixed Concrete   | 05/01/1989        |
| C173                                    | Air Content of Freshly Mixed Concrete by the Volumetric Method  | 05/01/1989        |
| C174                                    | Measuring Thickness of Concrete Elements Using Drilled Concrete Cores                                       | 07/01/2024        |



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## Concrete (Continued)

| Standard:                               |  | Accredited Since: |
|---|--|-------------------|
| C192                                    | Making and Curing Concrete Test Specimens in the Laboratory  | 05/01/1989        |
| C231                                    | Air Content of Freshly Mixed Concrete by the Pressure Method   | 05/01/1989        |
| C305                                    | Mechanical Mixing of Hydraulic Cement Pastes and Mortars of Plastic Consistency  | 07/01/2024        |
| C511                                    | Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes                                | 01/25/2013        |
| C617 (8000 psi and below)               | Capping Cylindrical Concrete Specimens   | 03/11/2021        |
| C642                                    | Density, Absorption, and Voids in Hardened Concrete  | 07/01/2024        |
| C1064                                   | Temperature of Freshly Mixed Portland Cement Concrete  | 05/01/1989        |
| C1140 (Obtaining and Testing Specimens) | Preparing and Testing Specimens from Shotcrete Test Panels   | 07/01/2024        |
| C1231 (7000 psi and below)              | Use of Unbonded Caps in Determination of Compressive Strength of Hardened Concrete Cylinders   | 01/25/2013        |
| C1260                                   | Potential Alkali Reactivity of Aggregates (Mortar-Bar Method)  | 03/01/1989        |
| C1542                                   | Measuring Length of Concrete Cores   | 07/15/2015        |
| C1567                                   | Determining the Potential Alkali-Silica Reactivity of Combinations of Cementitious Materials and Aggregate (Accelerated Mortar-Bar Method) | 05/01/1989        |
| C1604                                   | Standard Test Method for Obtaining and Testing Drilled Cores of Shotcrete  | 07/01/2024        |