



# CERTIFICATE OF ACCREDITATION



## **Budinger & Associates, Inc.**

in

### **Spokane Valley, Washington, 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](http://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 'Moe Jamshidi', written over a horizontal line.

Moe Jamshidi,  
AASHTO COMP Chair

This certificate was generated on 08/31/2022 at 5:49 PM Eastern Time. Please confirm the current accreditation status of this laboratory at [aashtoresource.org/aap/accreditation-directory](http://aashtoresource.org/aap/accreditation-directory)



# SCOPE OF AASHTO ACCREDITATION FOR:

Budinger & Associates, Inc.

in Spokane Valley, Washington, USA

## Quality Management System

**Standard:**

**Accredited Since:**

R18	Establishing and Implementing a Quality System for Construction Materials Testing Laboratories	05/11/2011
C1077 (Aggregate)	Laboratories Testing Concrete and Concrete Aggregates	07/18/2013
C1077 (Concrete)	Laboratories Testing Concrete and Concrete Aggregates	07/18/2013
C1093 (Masonry)	Accreditation of Testing Agencies for Unit Masonry	07/18/2013
D3666 (Aggregate)	Minimum Requirements for Agencies Testing and Inspecting Road and Paving Materials	12/20/2017
D3666 (Asphalt Mixture)	Minimum Requirements for Agencies Testing and Inspecting Road and Paving Materials	05/11/2011
D3740 (Soil)	Minimum Requirements for Agencies Engaged in Testing and/or Inspection of Soil and Rock as Used in Engineering Design and Construction	07/18/2013
E329 (Aggregate)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	07/18/2013
E329 (Asphalt Mixture)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	05/11/2011
E329 (Concrete)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	07/18/2013
E329 (Masonry)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	04/30/2021
E329 (Soil)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	07/18/2013
E329 (Sprayed Fire-Resistive Material)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	07/18/2013
E329 (Steel Inspection)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	04/04/2016



# SCOPE OF AASHTO ACCREDITATION FOR:

Budinger & Associates, Inc.

in Spokane Valley, Washington, USA

## Asphalt Mixture

### Standard:

### Accredited Since:

R30	Mixture Conditioning of Hot Mix Asphalt (HMA)	12/20/2017
R35	Superpave Volumetric Design for Hot Mix Asphalt (HMA)	12/20/2017
R47	Reducing Samples of Hot-Mix Asphalt to Testing Size	05/11/2011
R68	Preparation of Asphalt Mixtures by Means of the Marshall Apparatus	07/18/2013
T30	Mechanical Analysis of Extracted Aggregate	05/11/2011
T166	Bulk Specific Gravity of Compacted Hot Mix Asphalt Using Saturated Surface-Dry Specimens	05/11/2011
T168	Sampling Bituminous Paving Mixtures	04/04/2016
T209	Maximum Specific Gravity of Hot Mix Asphalt Paving Mixtures	05/11/2011
T245	Resistance to Plastic Flow of Asphalt Mixtures Using Marshall Apparatus	07/18/2013
T269	Percent Air Voids in Compacted Dense and Open Bituminous Paving Mixtures	05/11/2011
T275	Bulk Specific Gravity of Compacted Bituminous Mixtures Using Paraffin-Coated Specimens	07/18/2013
T283	Resistance of Compacted Mixtures to Moisture Induced Damage	05/11/2011
T305	Draindown Characteristics of HMA	04/04/2016
T308	Determining the Asphalt Content of Hot Mix Asphalt (HMA) by the Ignition Method	05/11/2011
T312	Preparing and Determining the Density of Hot Mix Asphalt (HMA) Specimens by Means of the Superpave Gyratory Compactor	05/11/2011
T329	Moisture Content of Hot-Mix Asphalt (HMA) by Oven Method	05/11/2011
T355	Density of Bituminous Concrete In Place by Nuclear Methods	03/17/2020
D979	Sampling Bituminous Paving Mixtures	04/04/2016
D1188	Bulk Specific Gravity of Compacted Bituminous Mixtures Using Paraffin-Coated Specimens	07/18/2013
D2041	Maximum Specific Gravity of Hot Mix Asphalt Paving Mixtures	05/11/2011
D2726	Bulk Specific Gravity of Compacted Hot Mix Asphalt Using Saturated Surface-Dry Specimens	05/11/2011
D2950	Density of Bituminous Concrete In Place by Nuclear Methods	07/18/2013
D3203	Percent Air Voids in Compacted Dense and Open Bituminous Paving Mixtures	05/11/2011



# SCOPE OF AASHTO ACCREDITATION FOR:

Budinger & Associates, Inc.

in Spokane Valley, Washington, USA

## Asphalt Mixture (Continued)

### Standard:

### Accredited Since:

D3549 Thickness or Height of Compacted Bituminous Paving Mixture Specimens	03/17/2020
D4867 Resistance of Compacted Mixtures to Moisture Induced Damage	05/11/2011
D5444 Mechanical Analysis of Extracted Aggregate	05/11/2011
D6307 Determining the Asphalt Content of Hot Mix Asphalt (HMA) by the Ignition Method	05/11/2011
D6390 Draindown Characteristics of HMA	04/04/2016
D6925 Preparing and Determining the Density of Hot Mix Asphalt (HMA) Specimens by Means of the Superpave Gyratory Compactor	05/11/2011
D6926 Preparation of Asphalt Mixtures by Means of the Marshall Apparatus	07/18/2013
D6927 Resistance to Plastic Flow of Asphalt Mixtures Using Marshall Apparatus	07/18/2013
D6931 Indirect Tensile Strength (IDT)	07/29/2020



# SCOPE OF AASHTO ACCREDITATION FOR:

Budinger & Associates, Inc.

in Spokane Valley, Washington, USA

## Soil

### Standard:

### Accredited Since:

R58	Dry Preparation of Disturbed Soil and Soil Aggregate Samples for Test	07/18/2013
T88	Particle Size Analysis of Soils by Hydrometer	07/18/2013
T89	Determining the Liquid Limit of Soils (Atterberg Limits)	07/18/2013
T90	Plastic Limit of Soils (Atterberg Limits)	07/18/2013
T99	The Moisture-Density Relations of Soils Using a 5.5 lb [2.5 kg] Rammer and a 12 in. [305 mm] Drop	07/18/2013
T100	Specific Gravity of Soils	07/18/2013
T134	Moisture-Density Relations of Soil-Cement Mixtures	07/18/2013
T135	Wetting-and-Drying Test of Compacted Soil-Cement Mixtures	07/18/2013
T136	Freezing-and-Thawing Tests of Compacted Soil-Cement Mixtures	07/18/2013
T180	Moisture-Density Relations of Soils Using a 10 lb [4.54 kg] Rammer and an 18 in. [457 mm] Drop	07/18/2013
T191	Density of Soil In-Place by the Sand Cone Method	07/18/2013
T193	The California Bearing Ratio	07/18/2013
T208	Unconfined Compressive Strength of Cohesive Soil	04/04/2016
T215	Permeability of Granular Soils (Constant Head)	07/18/2013
T216	One-Dimensional Consolidation Properties of Soils Using Incremental Loading	03/17/2020
T236	Direct Shear Test of Soils Under Consolidated Drained Conditions	03/17/2020
T265	Laboratory Determination of Moisture Content of Soils	07/18/2013
T267	Determination of Organic Content in Soils by Loss on Ignition	04/04/2016
T288	Minimum Soil Resistivity	04/04/2016
T289	pH of Soils for Corrosion Testing	04/04/2016
T296	Unconsolidated, Undrained Compressive Strength of Cohesive Soils in Triaxial Compression	03/17/2020
T297	Consolidated-Undrained Triaxial Compression Test on Cohesive Soils	07/18/2013
T310	In-Place Density and Moisture Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)	07/18/2013



# SCOPE OF AASHTO ACCREDITATION FOR:

Budinger & Associates, Inc.

in Spokane Valley, Washington, USA

## Soil (Continued)

<b>Standard:</b>	<b>Accredited Since:</b>
D421 Dry Preparation of Disturbed Soil and Soil Aggregate Samples for Test	07/18/2013
D422 Particle Size Analysis of Soils by Hydrometer	07/18/2013
D558 Moisture-Density Relations of Soil-Cement Mixtures	07/18/2013
D559 Wetting-and-Drying Test of Compacted Soil-Cement Mixtures	07/18/2013
D560 Freezing-and-Thawing Tests of Compacted Soil-Cement Mixtures	07/18/2013
D698 The Moisture-Density Relations of Soils Using a 5.5 lb [2.5 kg] Rammer and a 12 in. [305 mm] Drop	07/18/2013
D1140 Amount of Material in Soils Finer than the No. 200 (75- $\mu$ m) Sieve	07/18/2013
D1556 Density of Soil In-Place by the Sand Cone Method	07/18/2013
D1557 Moisture-Density Relations of Soils Using a 10 lb [4.54 kg] Rammer and an 18 in. [457 mm] Drop	07/18/2013
D1883 The California Bearing Ratio	07/18/2013
D2166 Unconfined Compressive Strength of Cohesive Soil	04/04/2016
D2216 Laboratory Determination of Moisture Content of Soils	07/18/2013
D2434 Permeability of Granular Soils (Constant Head)	07/18/2013
D2435 One-Dimensional Consolidation Properties of Soils Using Incremental Loading	03/17/2020
D2850 Unconsolidated, Undrained Compressive Strength of Cohesive Soils in Triaxial Compression	03/17/2020
D2974 Determination of Organic Content in Soils by Loss on Ignition	04/04/2016
D3080 Direct Shear Test of Soils Under Consolidated Drained Conditions	03/17/2020
D4318 Determining the Liquid Limit of Soils (Atterberg Limits)	07/18/2013
D4318 Plastic Limit of Soils (Atterberg Limits)	07/18/2013
D4718 Oversize Particle Correction	04/04/2016
D4767 Consolidated-Undrained Triaxial Compression Test on Cohesive Soils	07/18/2013
D5084 Hydraulic Conductivity of Saturated Porous Materials Using a Flexible Wall Permeameter	07/18/2013
D6913 Particle-Size Distribution (Gradation) of Soils Using Sieve Analysis	12/20/2017



# SCOPE OF AASHTO ACCREDITATION FOR:

Budinger & Associates, Inc.

in Spokane Valley, Washington, USA

## Soil (Continued)

### Standard:

### Accredited Since:

D6938 In-Place Density and Moisture Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)

07/18/2013

D7928 Particle-Size Distribution (Gradation) of Fine-Grained Soils Using the Sedimentation (Hydrometer) Analysis

07/29/2020



AASHTO  
ACCREDITED

# SCOPE OF AASHTO ACCREDITATION FOR:

Budinger & Associates, Inc.

in Spokane Valley, Washington, USA

## Rock

### Standard:

### Accredited Since:

D4644	Slake Durability of Shales and Weak Rocks	03/17/2020
D5731	Point Load Strength Index of Rock	03/17/2020
D7012 (without D4543 sample preparation)	Compressive Strength of Rock Core Specimens (Method C without D4543 preparation)	04/04/2016





# SCOPE OF AASHTO ACCREDITATION FOR:

Budinger & Associates, Inc.

in Spokane Valley, Washington, USA

## Aggregate

Standard:		Accredited Since:
R76	Reducing Samples of Aggregate to Testing Size	07/18/2013
R90	Sampling Aggregate	07/18/2013
T11	Materials Finer Than 75- $\mu$ m (No. 200) Sieve in Mineral Aggregates by Washing	07/18/2013
T19	Bulk Density ("Unit Weight") and Voids in Aggregate	07/18/2013
T21	Organic Impurities in Fine Aggregates for Concrete	07/18/2013
T27	Sieve Analysis of Fine and Coarse Aggregates	07/18/2013
T84	Specific Gravity (Relative Density) and Absorption of Fine Aggregate	07/18/2013
T85	Specific Gravity and Absorption of Coarse Aggregate	07/18/2013
T96	Resistance to Abrasion of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	07/18/2013
T100 (Mineral Filler)	Specific Gravity of Mineral Filler on Asphalt Mixture Designs	03/13/2018
T104	Soundness of Aggregate by Use of Sodium Sulfate or Magnesium Sulfate	07/18/2013
T112	Clay Lumps and Friable Particles in Aggregate	07/18/2013
T113	Lightweight Pieces in Aggregate	07/18/2013
T176	Plastic Fines in Graded Aggregates and Soils by Use of the Sand Equivalent Test	07/18/2013
T210	Aggregate Durability Index	07/18/2013
T255	Total Moisture Content of Aggregate by Drying	12/20/2017
T304	Uncompacted Void Content of Fine Aggregate (Influenced by Shape, Texture, and Grading)	01/24/2013
T335	Determining the Percentage of Fractured Particles in Coarse Aggregate	04/04/2016
C29	Bulk Density ("Unit Weight") and Voids in Aggregate	07/18/2013
C40	Organic Impurities in Fine Aggregates for Concrete	07/18/2013
C88	Soundness of Aggregate by Use of Sodium Sulfate or Magnesium Sulfate	07/18/2013
C117	Materials Finer Than 75- $\mu$ m (No. 200) Sieve in Mineral Aggregates by Washing	07/18/2013
C123	Lightweight Pieces in Aggregate	07/18/2013



# SCOPE OF AASHTO ACCREDITATION FOR:

Budinger & Associates, Inc.

in Spokane Valley, Washington, USA

## Aggregate (Continued)

<b>Standard:</b>		<b>Accredited Since:</b>
C127	Specific Gravity and Absorption of Coarse Aggregate	07/18/2013
C128	Specific Gravity (Relative Density) and Absorption of Fine Aggregate	07/18/2013
C131	Resistance to Abrasion of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	07/18/2013
C136	Sieve Analysis of Fine and Coarse Aggregates	07/18/2013
C142	Clay Lumps and Friable Particles in Aggregate	07/18/2013
C535	Resistance to Degradation of Large-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	12/20/2017
C566	Total Moisture Content of Aggregate by Drying	12/20/2017
C702	Reducing Samples of Aggregate to Testing Size	07/18/2013
C1252	Uncompacted Void Content of Fine Aggregate (Influenced by Shape, Texture, and Grading)	04/04/2016
D75	Sampling Aggregate	07/18/2013
D2419	Plastic Fines in Graded Aggregates and Soils by Use of the Sand Equivalent Test	07/18/2013
D3744	Aggregate Durability Index	07/18/2013
D4791	Flat Particles, Elongated Particles, or Flat and Elongated Particles in Coarse Aggregate	01/24/2013
D5821	Determining the Percentage of Fractured Particles in Coarse Aggregate	01/24/2013



# SCOPE OF AASHTO ACCREDITATION FOR:

Budinger & Associates, Inc.

in Spokane Valley, Washington, USA

## Sprayed Fire-Resistive Material

### Standard:

### Accredited Since:

E605 Thickness and Density of Sprayed Fire-Resistive Material(SFRM) Applied to Structural Members

07/18/2013

E736 Cohesion/Adhesion of Sprayed Fire-Resistive Materials Applied to Structural Members

07/18/2013



AASHTO  
ACCREDITED

# SCOPE OF AASHTO ACCREDITATION FOR:

Budinger & Associates, Inc.

in Spokane Valley, Washington, USA

## Iron and Steel

**Standard:**

F3125 Externally Threaded Fasteners (Bolts): Rotational Capacity

**Accredited Since:**

04/04/2016



# SCOPE OF AASHTO ACCREDITATION FOR:

Budinger & Associates, Inc.

in Spokane Valley, Washington, USA

## Concrete

Standard:		Accredited Since:
M201	Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	07/18/2013
R39	Making and Curing Concrete Test Specimens in the Laboratory	08/26/2015
R60	Sampling Freshly Mixed Concrete	08/26/2015
R100	Making and Curing Concrete Test Specimens in the Field	08/26/2015
T22	Compressive Strength of Cylindrical Concrete Specimens	07/18/2013
T24	Obtaining and Testing Drilled Cores and Sawed Beams of Concrete	08/26/2015
T97	Flexural Strength of Concrete (Using Simple Beam with Third-Point Loading)	08/26/2015
T119	Slump of Hydraulic Cement Concrete	07/18/2013
T121	Density (Unit Weight), Yield, and Air Content of Concrete	07/18/2013
T152	Air Content of Freshly Mixed Concrete by the Pressure Method	07/18/2013
T196	Air Content of Freshly Mixed Concrete by the Volumetric Method	07/18/2013
T231 (8000 psi and below)	Capping Cylindrical Concrete Specimens	02/22/2021
T309	Temperature of Freshly Mixed Portland Cement Concrete	08/26/2015
C31	Making and Curing Concrete Test Specimens in the Field	07/18/2013
C39	Compressive Strength of Cylindrical Concrete Specimens	07/18/2013
C42	Obtaining and Testing Drilled Cores and Sawed Beams of Concrete	08/26/2015
C78	Flexural Strength of Concrete (Using Simple Beam with Third-Point Loading)	07/18/2013
C138	Density (Unit Weight), Yield, and Air Content of Concrete	07/18/2013
C143	Slump of Hydraulic Cement Concrete	07/18/2013
C172	Sampling Freshly Mixed Concrete	07/18/2013
C173	Air Content of Freshly Mixed Concrete by the Volumetric Method	07/18/2013
C192	Making and Curing Concrete Test Specimens in the Laboratory	07/18/2013
C231	Air Content of Freshly Mixed Concrete by the Pressure Method	07/18/2013



# SCOPE OF AASHTO ACCREDITATION FOR:

Budinger & Associates, Inc.

in Spokane Valley, Washington, USA

## Concrete (Continued)

Standard:		Accredited Since:
C511	Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	07/18/2013
C617 (8000 psi and below)	Capping Cylindrical Concrete Specimens	02/22/2021
C642	Density, Absorption, and Voids in Hardened Concrete	07/18/2013
C805	Rebound Number of Hardened Concrete	08/26/2015
C1064	Temperature of Freshly Mixed Portland Cement Concrete	07/18/2013
C1140 (Obtaining and Testing Specimens)	Preparing and Testing Specimens from Shotcrete Test Panels	08/26/2015
C1231 (7000 psi and below)	Use of Unbonded Caps in Determination of Compressive Strength of Hardened Concrete Cylinders	07/18/2013
C1542	Measuring Length of Concrete Cores	04/30/2021



# SCOPE OF AASHTO ACCREDITATION FOR:

Budinger & Associates, Inc.

in Spokane Valley, Washington, USA

## Masonry

### Standard:

### Accredited Since:

C140 (Concrete Masonry Units) Sampling and Testing Concrete Masonry Units and Related Units	07/18/2013
C511 Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	07/18/2013
C1019 Sampling and Testing Grout	07/18/2013
C1314 Compressive Strength of Masonry Prisms	07/18/2013
C1552 Capping Concrete Masonry Units, Related Units and Masonry Prisms for Compression Testing	07/18/2013