



# CERTIFICATE OF ACCREDITATION



## BSK Associates

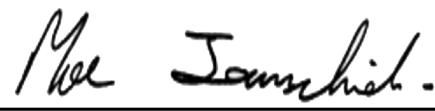
in

## Livermore, California, 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://www.aashtoresource.org)).

  
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Jim Tymon,  
AASHTO Executive Director

  
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Moe Jamshidi,  
AASHTO COMP Chair

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**SCOPE OF AASHTO ACCREDITATION FOR:**  
 BSK Associates  
 in Livermore, California, USA

**Quality Management System**

<b>Standard:</b>		<b>Accredited Since:</b>
R18	Establishing and Implementing a Quality System for Construction Materials Testing Laboratories	07/08/2008
C1077 (Aggregate)	Laboratories Testing Concrete and Concrete Aggregates	12/23/2013
C1077 (Concrete)	Laboratories Testing Concrete and Concrete Aggregates	10/04/2013
C1093 (Masonry)	Accreditation of Testing Agencies for Unit Masonry	10/10/2014
D3666 (Aggregate)	Minimum Requirements for Agencies Testing and Inspecting Road and Paving Materials	08/07/2017
D3666 (Asphalt Mixture)	Minimum Requirements for Agencies Testing and Inspecting Road and Paving Materials	08/07/2017
D3740 (Soil)	Minimum Requirements for Agencies Engaged in Testing and/or Inspection of Soil and Rock as Used in Engineering Design and Construction	09/29/2011
E329 (Aggregate)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	12/23/2013
E329 (Asphalt Mixture)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	08/07/2017
E329 (Concrete)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	10/04/2013
E329 (Masonry)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	11/18/2021
E329 (Soil)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	11/18/2012
E329 (Sprayed Fire-Resistive Material)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	12/08/2021



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**Asphalt Mixture**

<b>Standard:</b>	<b>Accredited Since:</b>
R30 Mixture Conditioning of Hot Mix Asphalt (HMA)	12/08/2021
R35 Superpave Volumetric Design for Hot Mix Asphalt (HMA)	12/08/2021
R47 Reducing Samples of Hot-Mix Asphalt to Testing Size	08/07/2017
R68 Preparation of Asphalt Mixtures by Means of the Marshall Apparatus	08/07/2017
R97 Sampling Bituminous Paving Mixtures	12/08/2021
T30 Mechanical Analysis of Extracted Aggregate	08/07/2017
T166 Bulk Specific Gravity of Compacted Hot Mix Asphalt Using Saturated Surface-Dry Specimens	08/07/2017
T209 Maximum Specific Gravity of Hot Mix Asphalt Paving Mixtures	08/07/2017
T245 Resistance to Plastic Flow of Asphalt Mixtures Using Marshall Apparatus	08/07/2017
T246 Resistance to Deformation and Cohesion of Bituminous Mixtures by Means of Hveem Apparatus	08/07/2017
T247 Preparation of Test Specimens of Bituminous Mixtures by Means of California Kneading Compactor	08/07/2017
T269 Percent Air Voids in Compacted Dense and Open Bituminous Paving Mixtures	08/07/2017
T275 Bulk Specific Gravity of Compacted Bituminous Mixtures Using Paraffin-Coated Specimens	08/07/2017
T283 Resistance of Compacted Mixtures to Moisture Induced Damage	08/07/2017
T305 Draindown Characteristics of HMA	12/08/2021
T308 Determining the Asphalt Content of Hot Mix Asphalt (HMA) by the Ignition Method	08/07/2017
T312 Preparing and Determining the Density of Hot Mix Asphalt (HMA) Specimens by Means of the Superpave Gyrotory Compactor	08/07/2017
T324 Hamburg Wheel-Track Testing of Compacted Hot-Mix Asphalt (HMA)	08/07/2017
T329 Moisture Content of Hot-Mix Asphalt (HMA) by Oven Method	08/07/2017
T355 Density of Bituminous Concrete In Place by Nuclear Methods	09/30/2019
D979 Sampling Bituminous Paving Mixtures	09/30/2019
D1188 Bulk Specific Gravity of Compacted Bituminous Mixtures Using Paraffin-Coated Specimens	12/08/2021
D1560 (Stability) Resistance to Deformation of Bituminous Mixtures by Means of Hveem Apparatus	08/07/2017



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## Asphalt Mixture (Continued)

<b>Standard:</b>		<b>Accredited Since:</b>
D1561	Preparation of Test Specimens of Bituminous Mixtures by Means of California Kneading Compactor	08/07/2017
D2041	Maximum Specific Gravity of Hot Mix Asphalt Paving Mixtures	11/18/2012
D2726	Bulk Specific Gravity of Compacted Hot Mix Asphalt Using Saturated Surface-Dry Specimens	08/07/2017
D2950	Density of Bituminous Concrete In Place by Nuclear Methods	11/18/2012
D3203	Percent Air Voids in Compacted Dense and Open Bituminous Paving Mixtures	11/18/2012
D3549	Thickness or Height of Compacted Bituminous Paving Mixture Specimens	12/08/2021
D3665	Random Sampling of Construction Materials	09/30/2019
D4867	Resistance of Compacted Mixtures to Moisture Induced Damage	08/07/2017
D5444	Mechanical Analysis of Extracted Aggregate	08/07/2017
D6307	Determining the Asphalt Content of Hot Mix Asphalt (HMA) by the Ignition Method	08/07/2017
D6390	Draindown Characteristics of HMA	12/08/2021
D6925	Preparing and Determining the Density of Hot Mix Asphalt (HMA) Specimens by Means of the Superpave Gyrotory Compactor	08/07/2017
D6926	Preparation of Asphalt Mixtures by Means of the Marshall Apparatus	08/07/2017
D6927	Resistance to Plastic Flow of Asphalt Mixtures Using Marshall Apparatus	08/07/2017
D6931	Indirect Tensile Strength (IDT)	12/08/2021



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## Soil

### Standard:

### Accredited Since:

R58	Dry Preparation of Disturbed Soil and Soil Aggregate Samples for Test	08/07/2017
T88	Particle Size Analysis of Soils by Hydrometer	08/07/2017
T89	Determining the Liquid Limit of Soils (Atterberg Limits)	08/07/2017
T90	Plastic Limit of Soils (Atterberg Limits)	08/07/2017
T99	The Moisture-Density Relations of Soils Using a 5.5 lb [2.5 kg] Rammer and a 12 in. [305 mm] Drop	08/07/2017
T134	Moisture-Density Relations of Soil-Cement Mixtures	12/08/2021
T180	Moisture-Density Relations of Soils Using a 10 lb [4.54 kg] Rammer and an 18 in. [457 mm] Drop	08/07/2017
T190	Resistance R-Value and Expansion Pressure of Compacted Soils	08/07/2017
T191	Density of Soil In-Place by the Sand Cone Method	08/07/2017
T265	Laboratory Determination of Moisture Content of Soils	08/07/2017
T310	In-Place Density and Moisture Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)	08/07/2017
D421	Dry Preparation of Disturbed Soil and Soil Aggregate Samples for Test	07/08/2008
D422	Particle Size Analysis of Soils by Hydrometer	11/18/2012
D558	Moisture-Density Relations of Soil-Cement Mixtures	12/08/2021
D698	The Moisture-Density Relations of Soils Using a 5.5 lb [2.5 kg] Rammer and a 12 in. [305 mm] Drop	07/08/2008
D1140	Amount of Material in Soils Finer than the No. 200 (75- $\mu$ m) Sieve	07/08/2008
D1556	Density of Soil In-Place by the Sand Cone Method	11/18/2012
D1557	Moisture-Density Relations of Soils Using a 10 lb [4.54 kg] Rammer and an 18 in. [457 mm] Drop	07/08/2008
D2216	Laboratory Determination of Moisture Content of Soils	07/08/2008
D2487	Classification of Soils for Engineering Purposes (Unified Soil Classification System)	07/08/2008
D2488	Description and Identification of Soils (Visual-Manual Procedure)	07/08/2008
D2844	Resistance R-Value and Expansion Pressure of Compacted Soils	08/07/2017
D4318	Determining the Liquid Limit of Soils (Atterberg Limits)	07/08/2008



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## Soil (Continued)

**Standard:**

**Accredited Since:**

D4318 Plastic Limit of Soils (Atterberg Limits)	07/08/2008
D4643 Determination of Water (Moisture) Content of Soil by Microwave Oven Heating	08/07/2017
D6938 In-Place Density and Moisture Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)	07/08/2008



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**Aggregate**

<b>Standard:</b>	<b>Accredited Since:</b>	
R76	Reducing Samples of Aggregate to Testing Size	08/07/2017
R90	Sampling Aggregate	08/07/2017
T11	Materials Finer Than 75-µm (No. 200) Sieve in Mineral Aggregates by Washing	08/07/2017
T19	Bulk Density ("Unit Weight") and Voids in Aggregate	12/08/2021
T21	Organic Impurities in Fine Aggregates for Concrete	08/07/2017
T27	Sieve Analysis of Fine and Coarse Aggregates	08/07/2017
T37	Sieve Analysis of Mineral Filler for Road and Paving Materials	12/08/2021
T84	Specific Gravity (Relative Density) and Absorption of Fine Aggregate	08/07/2017
T85	Specific Gravity and Absorption of Coarse Aggregate	08/07/2017
T96	Resistance to Abrasion of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	08/07/2017
T100 (Mineral Filler)	Specific Gravity of Mineral Filler on Asphalt Mixture Designs	12/08/2021
T104	Soundness of Aggregate by Use of Sodium Sulfate or Magnesium Sulfate	08/07/2017
T112	Clay Lumps and Friable Particles in Aggregate	08/07/2017
T176	Plastic Fines in Graded Aggregates and Soils by Use of the Sand Equivalent Test	08/07/2017
T210	Aggregate Durability Index	08/07/2017
T255	Total Moisture Content of Aggregate by Drying	08/07/2017
T304	Uncompacted Void Content of Fine Aggregate (Influenced by Shape, Texture, and Grading)	08/07/2017
T335	Determining the Percentage of Fractured Particles in Coarse Aggregate	08/07/2017
C29	Bulk Density ("Unit Weight") and Voids in Aggregate	12/08/2021
C40	Organic Impurities in Fine Aggregates for Concrete	07/08/2008
C88	Soundness of Aggregate by Use of Sodium Sulfate or Magnesium Sulfate	08/07/2017
C117	Materials Finer Than 75-µm (No. 200) Sieve in Mineral Aggregates by Washing	07/08/2008
C127	Specific Gravity and Absorption of Coarse Aggregate	07/08/2008



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## Aggregate (Continued)

<b>Standard:</b>		<b>Accredited Since:</b>
C128	Specific Gravity (Relative Density) and Absorption of Fine Aggregate	07/08/2008
C131	Resistance to Abrasion of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	08/07/2017
C136	Sieve Analysis of Fine and Coarse Aggregates	12/23/2013
C142	Clay Lumps and Friable Particles in Aggregate	08/07/2017
C535	Resistance to Degradation of Large-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	08/07/2017
C566	Total Moisture Content of Aggregate by Drying	07/08/2008
C702	Reducing Samples of Aggregate to Testing Size	07/08/2008
C1252	Uncompacted Void Content of Fine Aggregate (Influenced by Shape, Texture, and Grading)	08/07/2017
D75	Sampling Aggregate	11/18/2012
D546	Sieve Analysis of Mineral Filler for Road and Paving Materials	12/08/2021
D2419	Plastic Fines in Graded Aggregates and Soils by Use of the Sand Equivalent Test	11/18/2012
D3744	Aggregate Durability Index	08/07/2017
D4791	Flat Particles, Elongated Particles, or Flat and Elongated Particles in Coarse Aggregate	08/07/2017
D5821	Determining the Percentage of Fractured Particles in Coarse Aggregate	08/07/2017





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## Sprayed Fire-Resistive Material

### Standard:

### Accredited Since:

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

09/30/2019

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

09/30/2019



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## Iron and Steel

### Standard:

### Accredited Since:

M31-T244 Carbon-Steel Bars, Deformed and Plain: Tension (Elongation)	11/18/2021
M31-T244 Carbon-Steel Bars, Deformed and Plain: Tension (Ultimate Tensile Strength)	11/18/2021
M31-T244 Carbon-Steel Bars, Deformed and Plain: Tension (Yield Strength)	11/18/2021
M31-T285 Carbon-Steel Bars, Deformed and Plain: Bend Test	11/18/2021
A615-A370 Carbon-Steel Bars, Deformed and Plain: Tension (Elongation)	05/24/2016
A615-A370 Carbon-Steel Bars, Deformed and Plain: Tension (Ultimate Tensile Strength)	05/24/2016
A615-A370 Carbon-Steel Bars, Deformed and Plain: Tension (Yield Strength)	05/24/2016
A615-E290 Carbon-Steel Bars, Deformed and Plain: Bend Test	05/24/2016
A706-A370 Low Alloy Steel Bars, Deformed and Plain: Tension (Elongation)	10/10/2014
A706-A370 Low Alloy Steel Bars, Deformed and Plain: Tension (Ultimate Tensile Strength)	10/10/2014
A706-A370 Low Alloy Steel Bars, Deformed and Plain: Tension (Yield Strength)	10/10/2014
A706-E290 Low Alloy Steel Bars, Deformed and Plain: Bend Test	10/10/2014



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**Concrete**

<b>Standard:</b>		<b>Accredited Since:</b>
M201	Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	11/18/2021
R60	Sampling Freshly Mixed Concrete	11/18/2021
R100	Making and Curing Concrete Test Specimens in the Field	11/18/2021
T22	Compressive Strength of Cylindrical Concrete Specimens	11/18/2021
T97	Flexural Strength of Concrete (Using Simple Beam with Third-Point Loading)	11/18/2021
T119	Slump of Hydraulic Cement Concrete	11/18/2021
T121	Density (Unit Weight), Yield, and Air Content of Concrete	11/18/2021
T152	Air Content of Freshly Mixed Concrete by the Pressure Method	11/18/2021
T196	Air Content of Freshly Mixed Concrete by the Volumetric Method	11/18/2021
T231 (6000 psi and below)	Capping Cylindrical Concrete Specimens	11/18/2021
T309	Temperature of Freshly Mixed Portland Cement Concrete	11/18/2021
C31	Making and Curing Concrete Test Specimens in the Field	10/10/2014
C39	Compressive Strength of Cylindrical Concrete Specimens	07/14/2008
C78	Flexural Strength of Concrete (Using Simple Beam with Third-Point Loading)	10/10/2014
C138	Density (Unit Weight), Yield, and Air Content of Concrete	07/14/2008
C143	Slump of Hydraulic Cement Concrete	07/14/2008
C172	Sampling Freshly Mixed Concrete	07/14/2008
C173	Air Content of Freshly Mixed Concrete by the Volumetric Method	07/14/2008
C231	Air Content of Freshly Mixed Concrete by the Pressure Method	07/14/2008
C511	Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	10/10/2014
C617 (6000 psi and below)	Capping Cylindrical Concrete Specimens	11/18/2021
C1064	Temperature of Freshly Mixed Portland Cement Concrete	07/14/2008
C1231 (7000 psi and below)	Use of Unbonded Caps in Determination of Compressive Strength of Hardened Concrete Cylinders	02/01/2011



# SCOPE OF AASHTO ACCREDITATION FOR:

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## Masonry

**Standard:**

**Accredited Since:**

C140 (Concrete Masonry Units) Sampling and Testing Concrete Masonry Units and Related Units	10/10/2014
C511 Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	10/10/2014
C1019 Sampling and Testing Grout	10/10/2014
C1552 Capping Concrete Masonry Units, Related Units and Masonry Prisms for Compression Testing	10/10/2014