



CERTIFICATE OF ACCREDITATION



Element Materials Technology St. Paul Inc.

in

Saint Paul, Minnesota, 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).

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 04/07/2021 at 12:28 PM Eastern Time. Please confirm the current accreditation status of this laboratory at aashtoresource.org/aap/accreditation-directory



SCOPE OF AASHTO ACCREDITATION FOR:

Element Materials Technology St. Paul Inc.
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Quality Management System

Standard:

Accredited Since:

R18	Establishing and Implementing a Quality System for Construction Materials Testing Laboratories	04/15/1998
C1077 (Aggregate)	Laboratories Testing Concrete and Concrete Aggregates	06/27/2013
C1077 (Concrete)	Laboratories Testing Concrete and Concrete Aggregates	06/27/2013
D3666 (Aggregate)	Minimum Requirements for Agencies Testing and Inspecting Road and Paving Materials	06/27/2013
D3666 (Asphalt Mixture)	Minimum Requirements for Agencies Testing and Inspecting Road and Paving Materials	06/27/2013
E329 (Aggregate)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	06/27/2013
E329 (Asphalt Mixture)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	06/27/2013
E329 (Concrete)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	06/27/2013



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Asphalt Mixture

Standard:		Accredited Since:
R68	Preparation of Asphalt Mixtures by Means of the Marshall Apparatus	04/15/1998
T30	Mechanical Analysis of Extracted Aggregate	04/15/1998
T166	Bulk Specific Gravity of Compacted Hot Mix Asphalt Using Saturated Surface-Dry Specimens	04/15/1998
T209	Maximum Specific Gravity of Hot Mix Asphalt Paving Mixtures	04/15/1998
T245	Resistance to Plastic Flow of Asphalt Mixtures Using Marshall Apparatus	04/15/1998
T269	Percent Air Voids in Compacted Dense and Open Bituminous Paving Mixtures	04/15/1998
T312	Preparing and Determining the Density of Hot Mix Asphalt (HMA) Specimens by Means of the Superpave Gyratory Compactor	04/15/1998
D2041	Maximum Specific Gravity of Hot Mix Asphalt Paving Mixtures	04/15/1998
D2172 (Mineral Matter Not Determined)	Quantitative Extraction of Asphalt Binder from Hot Mix Asphalt (HMA) - Plant Control	06/11/2018
D2726	Bulk Specific Gravity of Compacted Hot Mix Asphalt Using Saturated Surface-Dry Specimens	04/15/1998
D2950	Density of Bituminous Concrete In Place by Nuclear Methods	05/23/2011
D3203	Percent Air Voids in Compacted Dense and Open Bituminous Paving Mixtures	04/15/1998
D3549	Thickness or Height of Compacted Bituminous Paving Mixture Specimens	07/14/2020
D5444	Mechanical Analysis of Extracted Aggregate	04/15/1998
D6307	Determining the Asphalt Content of Hot Mix Asphalt (HMA) by the Ignition Method	05/23/2011
D6925	Preparing and Determining the Density of Hot Mix Asphalt (HMA) Specimens by Means of the Superpave Gyratory Compactor	04/15/1998
D6926	Preparation of Asphalt Mixtures by Means of the Marshall Apparatus	04/15/1998
D6927	Resistance to Plastic Flow of Asphalt Mixtures Using Marshall Apparatus	04/15/1998



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Soil

Standard:

Accredited Since:

R58	Dry Preparation of Disturbed Soil and Soil Aggregate Samples for Test	04/15/1998
T88	Particle Size Analysis of Soils by Hydrometer	05/23/2011
T89	Determining the Liquid Limit of Soils (Atterberg Limits)	05/23/2011
T90	Plastic Limit of Soils (Atterberg Limits)	05/23/2011
T99	The Moisture-Density Relations of Soils Using a 5.5 lb [2.5 kg] Rammer and a 12 in. [305 mm] Drop	04/15/1998
T180	Moisture-Density Relations of Soils Using a 10 lb [4.54 kg] Rammer and an 18 in. [457 mm] Drop	04/15/1998
T191	Density of Soil In-Place by the Sand Cone Method	04/15/1998
T208	Unconfined Compressive Strength of Cohesive Soil	04/15/1998
T265	Laboratory Determination of Moisture Content of Soils	04/15/1998
T310	In-Place Density and Moisture Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)	04/15/1998
D421	Dry Preparation of Disturbed Soil and Soil Aggregate Samples for Test	04/15/1998
D422	Particle Size Analysis of Soils by Hydrometer	04/15/1998
D698	The Moisture-Density Relations of Soils Using a 5.5 lb [2.5 kg] Rammer and a 12 in. [305 mm] Drop	04/15/1998
D1140	Amount of Material in Soils Finer than the No. 200 (75- μ m) Sieve	09/21/2015
D1556	Density of Soil In-Place by the Sand Cone Method	04/15/1998
D1557	Moisture-Density Relations of Soils Using a 10 lb [4.54 kg] Rammer and an 18 in. [457 mm] Drop	04/15/1998
D2166	Unconfined Compressive Strength of Cohesive Soil	04/15/1998
D2216	Laboratory Determination of Moisture Content of Soils	04/15/1998
D2487	Classification of Soils for Engineering Purposes (Unified Soil Classification System)	09/21/2015
D2488	Description and Identification of Soils (Visual-Manual Procedure)	09/21/2015
D4318	Determining the Liquid Limit of Soils (Atterberg Limits)	04/15/1998
D4318	Plastic Limit of Soils (Atterberg Limits)	04/15/1998
D6938	In-Place Density and Moisture Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)	04/15/1998



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Aggregate

Standard:

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R76	Reducing Samples of Aggregate to Testing Size	05/23/2011
T11	Materials Finer Than 75- μ m (No. 200) Sieve in Mineral Aggregates by Washing	05/23/2011
T19	Bulk Density ("Unit Weight") and Voids in Aggregate	05/23/2011
T21	Organic Impurities in Fine Aggregates for Concrete	05/23/2011
T27	Sieve Analysis of Fine and Coarse Aggregates	05/23/2011
T84	Specific Gravity (Relative Density) and Absorption of Fine Aggregate	05/23/2011
T85	Specific Gravity and Absorption of Coarse Aggregate	05/23/2011
T96	Resistance to Abrasion of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	05/23/2011
T255	Total Moisture Content of Aggregate by Drying	05/23/2011
T304	Uncompacted Void Content of Fine Aggregate (Influenced by Shape, Texture, and Grading)	09/21/2015
C29	Bulk Density ("Unit Weight") and Voids in Aggregate	05/23/2011
C40	Organic Impurities in Fine Aggregates for Concrete	05/23/2011
C117	Materials Finer Than 75- μ m (No. 200) Sieve in Mineral Aggregates by Washing	05/23/2011
C127	Specific Gravity and Absorption of Coarse Aggregate	05/23/2011
C128	Specific Gravity (Relative Density) and Absorption of Fine Aggregate	05/23/2011
C131	Resistance to Abrasion of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	05/23/2011
C136	Sieve Analysis of Fine and Coarse Aggregates	05/23/2011
C535	Resistance to Degradation of Large-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	05/23/2011
C566	Total Moisture Content of Aggregate by Drying	05/23/2011
C702	Reducing Samples of Aggregate to Testing Size	05/23/2011
C1252	Uncompacted Void Content of Fine Aggregate (Influenced by Shape, Texture, and Grading)	09/21/2015
D4791	Flat Particles, Elongated Particles, or Flat and Elongated Particles in Coarse Aggregate	04/15/1998



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Concrete

Standard:

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C31	Making and Curing Concrete Test Specimens in the Field	12/30/2010
C39	Compressive Strength of Cylindrical Concrete Specimens	12/30/2010
C78	Flexural Strength of Concrete (Using Simple Beam with Third-Point Loading)	12/30/2010
C138	Density (Unit Weight), Yield, and Air Content of Concrete	12/30/2010
C143	Slump of Hydraulic Cement Concrete	12/30/2010
C172	Sampling Freshly Mixed Concrete	12/30/2010
C231	Air Content of Freshly Mixed Concrete by the Pressure Method	12/30/2010
C511	Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	09/24/2012
C617 (6000 psi and below)	Capping Cylindrical Concrete Specimens	02/20/2020
C1064	Temperature of Freshly Mixed Portland Cement Concrete	12/30/2010
C1231 (7000 psi and below)	Use of Unbonded Caps in Determination of Compressive Strength of Hardened Concrete Cylinders	12/30/2010