



CERTIFICATE OF ACCREDITATION



Thiele Geotech, Inc.

in

Omaha, Nebraska, 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 04/01/2023 at 3:48 AM Eastern Time. Please confirm the current accreditation status of this laboratory at aashtoresource.org/aap/accreditation-directory



SCOPE OF AASHTO ACCREDITATION FOR:

Thiele Geotech, Inc.

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Quality Management System

Standard:

Accredited Since:

R18	Establishing and Implementing a Quality System for Construction Materials Testing Laboratories	11/15/1993
C1077 (Aggregate)	Laboratories Testing Concrete and Concrete Aggregates	01/10/2011
C1077 (Concrete)	Laboratories Testing Concrete and Concrete Aggregates	01/10/2011
C1093 (Masonry)	Accreditation of Testing Agencies for Unit Masonry	01/10/2011
D3666 (Aggregate)	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	01/10/2011
E329 (Aggregate)	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	06/09/2015
E329 (Soil)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	01/10/2011
E329 (Sprayed Fire-Resistive Material)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	04/30/2014



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Asphalt Mixture

Standard:

Accredited Since:

R30	Mixture Conditioning of Hot Mix Asphalt (HMA)	10/15/2021
R35	Superpave Volumetric Design for Hot Mix Asphalt (HMA)	04/03/2019
R47	Reducing Samples of Hot-Mix Asphalt to Testing Size	11/15/1993
R68	Preparation of Asphalt Mixtures by Means of the Marshall Apparatus	11/15/1993
R97	Sampling Bituminous Paving Mixtures	10/15/2021
T30	Mechanical Analysis of Extracted Aggregate	11/15/1993
T166	Bulk Specific Gravity of Compacted Hot Mix Asphalt Using Saturated Surface-Dry Specimens	11/15/1993
T209	Maximum Specific Gravity of Hot Mix Asphalt Paving Mixtures	11/15/1993
T245	Resistance to Plastic Flow of Asphalt Mixtures Using Marshall Apparatus	11/15/1993
T269	Percent Air Voids in Compacted Dense and Open Bituminous Paving Mixtures	11/15/1993
T275	Bulk Specific Gravity of Compacted Bituminous Mixtures Using Paraffin-Coated Specimens	11/15/1993
T283	Resistance of Compacted Mixtures to Moisture Induced Damage	11/15/1993
T308	Determining the Asphalt Content of Hot Mix Asphalt (HMA) by the Ignition Method	11/15/1993
T312	Preparing and Determining the Density of Hot Mix Asphalt (HMA) Specimens by Means of the Superpave Gyratory Compactor	11/15/1993
T329	Moisture Content of Hot-Mix Asphalt (HMA) by Oven Method	04/30/2014
T355	Density of Bituminous Concrete In Place by Nuclear Methods	10/15/2021
D979	Sampling Bituminous Paving Mixtures	04/03/2019
D1188	Bulk Specific Gravity of Compacted Bituminous Mixtures Using Paraffin-Coated Specimens	10/15/2021
D2041	Maximum Specific Gravity of Hot Mix Asphalt Paving Mixtures	11/15/1993
D2726	Bulk Specific Gravity of Compacted Hot Mix Asphalt Using Saturated Surface-Dry Specimens	11/15/1993
D2950	Density of Bituminous Concrete In Place by Nuclear Methods	11/15/1993
D3203	Percent Air Voids in Compacted Dense and Open Bituminous Paving Mixtures	11/15/1993
D3549	Thickness or Height of Compacted Bituminous Paving Mixture Specimens	10/15/2021



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Asphalt Mixture (Continued)

Standard:

Accredited Since:

D3665 Random Sampling of Construction Materials	10/15/2021
D4867 Resistance of Compacted Mixtures to Moisture Induced Damage	11/15/1993
D5444 Mechanical Analysis of Extracted Aggregate	11/15/1993
D6307 Determining the Asphalt Content of Hot Mix Asphalt (HMA) by the Ignition Method	11/15/1993
D6925 Preparing and Determining the Density of Hot Mix Asphalt (HMA) Specimens by Means of the Superpave Gyratory Compactor	11/15/1993
D6926 Preparation of Asphalt Mixtures by Means of the Marshall Apparatus	11/15/1993
D6927 Resistance to Plastic Flow of Asphalt Mixtures Using Marshall Apparatus	11/15/1993



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Soil

Standard:

Accredited Since:

R58	Dry Preparation of Disturbed Soil and Soil Aggregate Samples for Test	11/15/1993
R74	Wet Preparation of Disturbed Soil Samples for Test	10/15/2021
T88	Particle Size Analysis of Soils by Hydrometer	11/15/1993
T89	Determining the Liquid Limit of Soils (Atterberg Limits)	11/15/1993
T90	Plastic Limit of Soils (Atterberg Limits)	11/15/1993
T99	The Moisture-Density Relations of Soils Using a 5.5 lb [2.5 kg] Rammer and a 12 in. [305 mm] Drop	11/15/1993
T100	Specific Gravity of Soils	11/15/1993
T134	Moisture-Density Relations of Soil-Cement Mixtures	10/15/2021
T180	Moisture-Density Relations of Soils Using a 10 lb [4.54 kg] Rammer and an 18 in. [457 mm] Drop	11/15/1993
T191	Density of Soil In-Place by the Sand Cone Method	10/15/2021
T193	The California Bearing Ratio	11/15/1993
T208	Unconfined Compressive Strength of Cohesive Soil	11/15/1993
T215	Permeability of Granular Soils (Constant Head)	05/14/2012
T216	One-Dimensional Consolidation Properties of Soils Using Incremental Loading	05/14/2012
T217	Determination of Moisture in Soils by Means of a Calcium Carbide Gas Pressure Moisture Tester	10/15/2021
T236	Direct Shear Test of Soils Under Consolidated Drained Conditions	05/14/2012
T265	Laboratory Determination of Moisture Content of Soils	11/15/1993
T296	Unconsolidated, Undrained Compressive Strength of Cohesive Soils in Triaxial Compression	05/14/2012
T310	In-Place Density and Moisture Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)	11/15/1993
D421	Dry Preparation of Disturbed Soil and Soil Aggregate Samples for Test	11/15/1993
D422	Particle Size Analysis of Soils by Hydrometer	11/15/1993
D558	Moisture-Density Relations of Soil-Cement Mixtures	10/15/2021
D698	The Moisture-Density Relations of Soils Using a 5.5 lb [2.5 kg] Rammer and a 12 in. [305 mm] Drop	11/15/1993



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Soil (Continued)

Standard:	Accredited Since:
D1140 Amount of Material in Soils Finer than the No. 200 (75- μ m) Sieve	11/15/1993
D1556 Density of Soil In-Place by the Sand Cone Method	10/15/2021
D1557 Moisture-Density Relations of Soils Using a 10 lb [4.54 kg] Rammer and an 18 in. [457 mm] Drop	11/15/1993
D1883 The California Bearing Ratio	11/15/1993
D2166 Unconfined Compressive Strength of Cohesive Soil	11/15/1993
D2216 Laboratory Determination of Moisture Content of Soils	11/15/1993
D2434 Permeability of Granular Soils (Constant Head)	11/15/1993
D2435 One-Dimensional Consolidation Properties of Soils Using Incremental Loading	11/15/1993
D2487 Classification of Soils for Engineering Purposes (Unified Soil Classification System)	11/15/1993
D2488 Description and Identification of Soils (Visual-Manual Procedure)	11/15/1993
D2850 Unconsolidated, Undrained Compressive Strength of Cohesive Soils in Triaxial Compression	11/15/1993
D2937 Density of Soil in Place by the Drive-Cylinder Method	10/15/2021
D3080 Direct Shear Test of Soils Under Consolidated Drained Conditions	05/14/2012
D4254 Minimum Index Density and Unit Weight of Soils and Calculation of Relative Density	10/15/2021
D4318 Determining the Liquid Limit of Soils (Atterberg Limits)	11/15/1993
D4318 Plastic Limit of Soils (Atterberg Limits)	11/15/1993
D4546 One-Dimensional Swell or Settlement Potential of Cohesive Soils	10/15/2021
D4643 Determination of Water (Moisture) Content of Soil by Microwave Oven Heating	10/15/2021
D4718 Oversize Particle Correction	10/15/2021
D4944 Determination of Moisture in Soils by Means of a Calcium Carbide Gas Pressure Moisture Tester	10/15/2021
D5084 Hydraulic Conductivity of Saturated Porous Materials Using a Flexible Wall Permeameter	11/15/1993
D6938 In-Place Density and Moisture Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)	11/15/1993



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Aggregate

Standard:		Accredited Since:
R76	Reducing Samples of Aggregate to Testing Size	11/15/1993
R90	Sampling Aggregate	04/30/2014
T11	Materials Finer Than 75- μ m (No. 200) Sieve in Mineral Aggregates by Washing	11/15/1993
T19	Bulk Density ("Unit Weight") and Voids in Aggregate	11/15/1993
T21	Organic Impurities in Fine Aggregates for Concrete	11/15/1993
T27	Sieve Analysis of Fine and Coarse Aggregates	11/15/1993
T84	Specific Gravity (Relative Density) and Absorption of Fine Aggregate	11/15/1993
T85	Specific Gravity and Absorption of Coarse Aggregate	11/15/1993
T96	Resistance to Abrasion of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	11/15/1993
T100 (Mineral Filler)	Specific Gravity of Mineral Filler on Asphalt Mixture Designs	04/03/2019
T103	Soundness of Aggregates by Freezing and Thawing	10/15/2021
T104	Soundness of Aggregate by Use of Sodium Sulfate or Magnesium Sulfate	11/15/1993
T112	Clay Lumps and Friable Particles in Aggregate	11/15/1993
T113	Lightweight Pieces in Aggregate	11/15/1993
T176	Plastic Fines in Graded Aggregates and Soils by Use of the Sand Equivalent Test	11/15/1993
T255	Total Moisture Content of Aggregate by Drying	11/15/1993
T304	Uncompacted Void Content of Fine Aggregate (Influenced by Shape, Texture, and Grading)	11/15/1993
T327	Resistance to Abrasion by Micro-Deval (Coarse Aggregate)	10/15/2021
T335	Determining the Percentage of Fractured Particles in Coarse Aggregate	04/30/2014
C29	Bulk Density ("Unit Weight") and Voids in Aggregate	11/15/1993
C40	Organic Impurities in Fine Aggregates for Concrete	11/15/1993
C88	Soundness of Aggregate by Use of Sodium Sulfate or Magnesium Sulfate	11/15/1993
C117	Materials Finer Than 75- μ m (No. 200) Sieve in Mineral Aggregates by Washing	11/15/1993



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Aggregate (Continued)

Standard:		Accredited Since:
C123	Lightweight Pieces in Aggregate	11/15/1993
C127	Specific Gravity and Absorption of Coarse Aggregate	11/15/1993
C128	Specific Gravity (Relative Density) and Absorption of Fine Aggregate	11/15/1993
C131	Resistance to Abrasion of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	11/15/1993
C136	Sieve Analysis of Fine and Coarse Aggregates	11/15/1993
C142	Clay Lumps and Friable Particles in Aggregate	11/15/1993
C535	Resistance to Degradation of Large-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	11/15/1993
C566	Total Moisture Content of Aggregate by Drying	11/15/1993
C702	Reducing Samples of Aggregate to Testing Size	11/15/1993
C1252	Uncompacted Void Content of Fine Aggregate (Influenced by Shape, Texture, and Grading)	11/15/1993
D75	Sampling Aggregate	04/30/2014
D2419	Plastic Fines in Graded Aggregates and Soils by Use of the Sand Equivalent Test	11/15/1993
D4791	Flat Particles, Elongated Particles, or Flat and Elongated Particles in Coarse Aggregate	11/15/1993
D5821	Determining the Percentage of Fractured Particles in Coarse Aggregate	11/15/1993
D6928	Resistance to Abrasion by Micro-Deval (Coarse Aggregate)	10/15/2021
D7428	Resistance to Abrasion by Micro-Deval (Fine Aggregate)	10/15/2021



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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

05/14/2012

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

05/14/2012



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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	09/11/2012
R39	Making and Curing Concrete Test Specimens in the Laboratory	05/01/1995
R60	Sampling Freshly Mixed Concrete	05/01/1995
R100	Making and Curing Concrete Test Specimens in the Field	05/01/1995
T22	Compressive Strength of Cylindrical Concrete Specimens	05/01/1995
T24	Obtaining and Testing Drilled Cores and Sawed Beams of Concrete	05/01/1995
T97	Flexural Strength of Concrete (Using Simple Beam with Third-Point Loading)	05/01/1995
T119	Slump of Hydraulic Cement Concrete	05/01/1995
T121	Density (Unit Weight), Yield, and Air Content of Concrete	05/01/1995
T148	Measuring Thickness of Concrete Elements Using Drilled Concrete Cores	05/01/1995
T152	Air Content of Freshly Mixed Concrete by the Pressure Method	05/01/1995
T160	Length Change of Hardened Hydraulic-Cement, Mortar, and Concrete	09/11/2012
T161	Resistance of Concrete to Rapid Freezing and Thawing	03/20/2020
T196	Air Content of Freshly Mixed Concrete by the Volumetric Method	05/01/1995
T231 (8000 psi and below)	Capping Cylindrical Concrete Specimens	03/20/2020
T303	Potential Alkali Reactivity of Aggregates (Mortar-Bar Method)	09/11/2012
T309	Temperature of Freshly Mixed Portland Cement Concrete	09/11/2012
C31	Making and Curing Concrete Test Specimens in the Field	05/01/1995
C39	Compressive Strength of Cylindrical Concrete Specimens	05/01/1995
C42	Obtaining and Testing Drilled Cores and Sawed Beams of Concrete	05/01/1995
C78	Flexural Strength of Concrete (Using Simple Beam with Third-Point Loading)	05/01/1995
C138	Density (Unit Weight), Yield, and Air Content of Concrete	05/01/1995
C143	Slump of Hydraulic Cement Concrete	05/01/1995



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Concrete (Continued)

Standard:		Accredited Since:
C157	Length Change of Hardened Hydraulic-Cement, Mortar, and Concrete	05/01/1995
C172	Sampling Freshly Mixed Concrete	05/01/1995
C173	Air Content of Freshly Mixed Concrete by the Volumetric Method	05/01/1995
C174	Measuring Thickness of Concrete Elements Using Drilled Concrete Cores	05/01/1995
C192	Making and Curing Concrete Test Specimens in the Laboratory	05/01/1995
C215	Fundamental Transverse, Longitudinal and Torsional Frequencies of Concrete Specimens	06/25/2018
C231	Air Content of Freshly Mixed Concrete by the Pressure Method	05/01/1995
C511	Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	09/11/2012
C617 (8000 psi and below)	Capping Cylindrical Concrete Specimens	03/20/2020
C642	Density, Absorption, and Voids in Hardened Concrete	05/01/1995
C666	Resistance of Concrete to Rapid Freezing and Thawing	06/25/2018
C1064	Temperature of Freshly Mixed Portland Cement Concrete	05/01/1995
C1231 (7000 psi and below)	Use of Unbonded Caps in Determination of Compressive Strength of Hardened Concrete Cylinders	10/20/2017
C1260	Potential Alkali Reactivity of Aggregates (Mortar-Bar Method)	11/15/1993
C1567	Determining the Potential Alkali-Silica Reactivity of Combinations of Cementitious Materials and Aggregate (Accelerated Mortar-Bar Method)	11/15/1993



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	03/30/2005
C1262 Evaluating the Freeze-Thaw Durability of Dry-Cast Segmental Retaining Wall Units and Related Concrete Units	03/20/2020
C1552 Capping Concrete Masonry Units, Related Units and Masonry Prisms for Compression Testing	03/30/2005