



CERTIFICATE OF ACCREDITATION



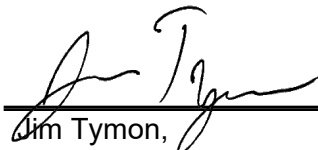
Olsson, Inc.

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).



Jim Tymon,
AASHTO Executive Director



Matt Linneman,
AASHTO COMP Chair

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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	12/06/2015
C1077 (Aggregate)	Laboratories Testing Concrete and Concrete Aggregates	01/22/2018
C1077 (Concrete)	Laboratories Testing Concrete and Concrete Aggregates	12/06/2015
C1093 (Masonry)	Accreditation of Testing Agencies for Unit Masonry	06/16/2021
D3666 (Asphalt Mixture)	Minimum Requirements for Agencies Testing and Inspecting Road and Paving Materials	12/16/2016
D3740 (Soil)	Minimum Requirements for Agencies Engaged in Testing and/or Inspection of Soil and Rock as Used in Engineering Design and Construction	12/16/2016
E329 (Aggregate)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	01/22/2018
E329 (Asphalt Mixture)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	12/16/2016
E329 (Concrete)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	12/06/2015
E329 (Masonry)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	06/16/2021
E329 (Soil)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	12/16/2016



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Asphalt Mixture

Standard:

Accredited Since:

R47	Reducing Samples of Hot-Mix Asphalt to Testing Size	12/16/2016
D979	Sampling Bituminous Paving Mixtures	12/16/2016
D2041	Maximum Specific Gravity of Hot Mix Asphalt Paving Mixtures	12/16/2016
D2726 (Cores)	Bulk Specific Gravity of Compacted Hot Mix Asphalt Using Saturated Surface-Dry Specimens (Cores)	12/16/2016
D2950	Density of Bituminous Concrete In Place by Nuclear Methods	12/16/2016
D3203	Percent Air Voids in Compacted Dense and Open Bituminous Paving Mixtures	12/16/2016
D5444	Mechanical Analysis of Extracted Aggregate	12/16/2016
D6307	Determining the Asphalt Content of Hot Mix Asphalt (HMA) by the Ignition Method	12/16/2016



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Soil

Standard:

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D421 Dry Preparation of Disturbed Soil and Soil Aggregate Samples for Test	12/16/2016
D422 Particle Size Analysis of Soils by Hydrometer	12/16/2016
D698 The Moisture-Density Relations of Soils Using a 5.5 lb [2.5 kg] Rammer and a 12 in. [305 mm] Drop	12/16/2016
D1140 Amount of Material in Soils Finer than the No. 200 (75- μ m) Sieve	12/16/2016
D1557 Moisture-Density Relations of Soils Using a 10 lb [4.54 kg] Rammer and an 18 in. [457 mm] Drop	12/16/2016
D1883 The California Bearing Ratio	12/16/2016
D2166 Unconfined Compressive Strength of Cohesive Soil	12/16/2016
D2216 Laboratory Determination of Moisture Content of Soils	12/16/2016
D2435 One-Dimensional Consolidation Properties of Soils Using Incremental Loading	12/16/2016
D2487 Classification of Soils for Engineering Purposes (Unified Soil Classification System)	12/16/2016
D2488 Description and Identification of Soils (Visual-Manual Procedure)	12/16/2016
D4318 Determining the Liquid Limit of Soils (Atterberg Limits)	12/16/2016
D4318 Plastic Limit of Soils (Atterberg Limits)	12/16/2016
D4546 One-Dimensional Swell or Settlement Potential of Cohesive Soils	12/16/2016
D4643 Determination of Water (Moisture) Content of Soil by Microwave Oven Heating	12/16/2016
D4718 Oversize Particle Correction	12/16/2016
D6913 Particle-Size Distribution (Gradation) of Soils Using Sieve Analysis	12/16/2016
D6938 In-Place Density and Moisture Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)	12/16/2016
G51 Measuring pH for Corrosion Testing	02/04/2022
G57 Field Measurement of Soil Resistivity Using the Wenner Four-Electrode Method	12/16/2016



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Aggregate

Standard:

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C29 Bulk Density ("Unit Weight") and Voids in Aggregate	12/06/2015
C40 Organic Impurities in Fine Aggregates for Concrete	12/06/2015
C117 Materials Finer Than 75-µm (No. 200) Sieve in Mineral Aggregates by Washing	12/06/2015
C127 Specific Gravity and Absorption of Coarse Aggregate	12/06/2015
C128 Specific Gravity (Relative Density) and Absorption of Fine Aggregate	12/06/2015
C136 Sieve Analysis of Fine and Coarse Aggregates	12/06/2015
C566 Total Moisture Content of Aggregate by Drying	12/06/2015
C702 Reducing Samples of Aggregate to Testing Size	12/06/2015
D75 Sampling Aggregate	12/06/2015



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Concrete

Standard:

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C31 (Cylinders)	Making and Curing Concrete Test Specimens in the Field	02/01/2023
C39	Compressive Strength of Cylindrical Concrete Specimens	12/06/2015
C42 (Testing Drilled Cores of Concrete)	Testing Drilled Cores of Concrete	12/06/2015
C138	Density (Unit Weight), Yield, and Air Content of Concrete	12/06/2015
C143	Slump of Hydraulic Cement Concrete	12/06/2015
C172	Sampling Freshly Mixed Concrete	12/06/2015
C173	Air Content of Freshly Mixed Concrete by the Volumetric Method	12/06/2015
C174	Measuring Thickness of Concrete Elements Using Drilled Concrete Cores	12/06/2015
C231	Air Content of Freshly Mixed Concrete by the Pressure Method	12/06/2015
C511	Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	12/06/2015
C617 (5000 psi and below)	Capping Cylindrical Concrete Specimens	07/10/2024
C1064	Temperature of Freshly Mixed Portland Cement Concrete	12/06/2015
C1231 (7000 psi and below)	Use of Unbonded Caps in Determination of Compressive Strength of Hardened Concrete Cylinders	12/06/2015



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Masonry

Standard:

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C511 Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	01/22/2018
C1019 Sampling and Testing Grout	01/22/2018
C1314 Compressive Strength of Masonry Prisms	06/16/2021
C1552 Capping Concrete Masonry Units, Related Units and Masonry Prisms for Compression Testing	06/16/2021