



CERTIFICATE OF ACCREDITATION



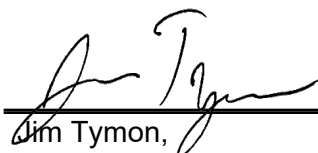
Kleinfelder, Inc.

in

Redmond, 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).


Jim Tymon,
AASHTO Executive Director


Matt Linneman,
AASHTO COMP Chair

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SCOPE OF AASHTO ACCREDITATION FOR:

Kleinfelder, Inc.

in Redmond, Washington, USA

Quality Management System

Standard:

Accredited Since:

R18	Establishing and Implementing a Quality System for Construction Materials Testing Laboratories	07/06/2011
C1077 (Aggregate)	Laboratories Testing Concrete and Concrete Aggregates	08/25/2015
C1077 (Concrete)	Laboratories Testing Concrete and Concrete Aggregates	05/09/2013
D3666 (Aggregate)	Minimum Requirements for Agencies Testing and Inspecting Road and Paving Materials	01/18/2023
D3666 (Asphalt Mixture)	Minimum Requirements for Agencies Testing and Inspecting Road and Paving Materials	01/18/2023
D3740 (Soil)	Minimum Requirements for Agencies Engaged in Testing and/or Inspection of Soil and Rock as Used in Engineering Design and Construction	01/18/2023
E329 (Aggregate)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	08/25/2015
E329 (Asphalt Mixture)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	01/18/2023
E329 (Concrete)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	05/09/2013
E329 (Soil)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	01/18/2023



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Asphalt Mixture

Standard:

Accredited Since:

R47	Reducing Samples of Hot-Mix Asphalt to Testing Size	05/23/2011
R97	Sampling Bituminous Paving Mixtures	01/18/2023
T30	Mechanical Analysis of Extracted Aggregate	03/01/2006
T166 (Cores)	Bulk Specific Gravity of Compacted Hot Mix Asphalt Using Saturated Surface-Dry Specimens (Cores)	04/27/2020
T209	Maximum Specific Gravity of Hot Mix Asphalt Paving Mixtures	12/03/2017
T269	Percent Air Voids in Compacted Dense and Open Bituminous Paving Mixtures	12/03/2017
T308	Determining the Asphalt Content of Hot Mix Asphalt (HMA) by the Ignition Method	05/23/2011
T329	Moisture Content of Hot-Mix Asphalt (HMA) by Oven Method	03/01/2006
T355	Density of Bituminous Concrete In Place by Nuclear Methods	12/03/2017
D979	Sampling Bituminous Paving Mixtures	12/03/2017
D2041	Maximum Specific Gravity of Hot Mix Asphalt Paving Mixtures	12/03/2017
D2726 (Cores)	Bulk Specific Gravity of Compacted Hot Mix Asphalt Using Saturated Surface-Dry Specimens (Cores)	04/27/2020
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	12/03/2017
D5444	Mechanical Analysis of Extracted Aggregate	03/01/2006
D6307	Determining the Asphalt Content of Hot Mix Asphalt (HMA) by the Ignition Method	05/23/2011



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Soil

Standard:

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R58	Dry Preparation of Disturbed Soil and Soil Aggregate Samples for Test	07/11/2013
T88	Particle Size Analysis of Soils by Hydrometer	07/11/2013
T89	Determining the Liquid Limit of Soils (Atterberg Limits)	07/11/2013
T90	Plastic Limit of Soils (Atterberg Limits)	07/11/2013
T99	The Moisture-Density Relations of Soils Using a 5.5 lb [2.5 kg] Rammer and a 12 in. [305 mm] Drop	07/11/2013
T100	Specific Gravity of Soils	03/01/2006
T180	Moisture-Density Relations of Soils Using a 10 lb [4.54 kg] Rammer and an 18 in. [457 mm] Drop	07/11/2013
T193	The California Bearing Ratio	07/11/2013
T216	One-Dimensional Consolidation Properties of Soils Using Incremental Loading	07/11/2013
T236	Direct Shear Test of Soils Under Consolidated Drained Conditions	07/11/2013
T265	Laboratory Determination of Moisture Content of Soils	07/11/2013
T267	Determination of Organic Content in Soils by Loss on Ignition	07/11/2013
T296	Unconsolidated, Undrained Compressive Strength of Cohesive Soils in Triaxial Compression	04/19/2023
T297	Consolidated-Undrained Triaxial Compression Test on Cohesive Soils	04/19/2023
T310	In-Place Density and Moisture Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)	07/11/2013
D421	Dry Preparation of Disturbed Soil and Soil Aggregate Samples for Test	03/01/2006
D422	Particle Size Analysis of Soils by Hydrometer	03/01/2006
D698	The Moisture-Density Relations of Soils Using a 5.5 lb [2.5 kg] Rammer and a 12 in. [305 mm] Drop	03/01/2006
D854	Specific Gravity of Soils	03/05/2014
D1140	Amount of Material in Soils Finer than the No. 200 (75-µm) Sieve	04/27/2020
D1557	Moisture-Density Relations of Soils Using a 10 lb [4.54 kg] Rammer and an 18 in. [457 mm] Drop	03/01/2006
D1883	The California Bearing Ratio	05/23/2011
D2216	Laboratory Determination of Moisture Content of Soils	03/01/2006



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Soil (Continued)

Standard:		Accredited Since:
D2435	One-Dimensional Consolidation Properties of Soils Using Incremental Loading	05/23/2011
D2487	Classification of Soils for Engineering Purposes (Unified Soil Classification System)	03/01/2006
D2488	Description and Identification of Soils (Visual-Manual Procedure)	03/01/2006
D2850	Unconsolidated, Undrained Compressive Strength of Cohesive Soils in Triaxial Compression	04/19/2023
D2974	Determination of Organic Content in Soils by Loss on Ignition	05/23/2011
D3080 (3000 lb/ft-sq or Greater Normal Stress)	Direct Shear Test of Soils Under Consolidated Drained Conditions (with Exceptions)	01/18/2023
D4318	Determining the Liquid Limit of Soils (Atterberg Limits)	03/01/2006
D4318	Plastic Limit of Soils (Atterberg Limits)	03/01/2006
D4718	Oversize Particle Correction	08/24/2015
D4767	Consolidated-Undrained Triaxial Compression Test on Cohesive Soils	04/19/2023
D6913	Particle-Size Distribution (Gradation) of Soils Using Sieve Analysis	07/11/2013
D6938	In-Place Density and Moisture Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)	03/01/2006



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Aggregate

Standard:

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R76	Reducing Samples of Aggregate to Testing Size	08/25/2015
R90	Sampling Aggregate	06/19/2018
T11	Materials Finer Than 75- μ m (No. 200) Sieve in Mineral Aggregates by Washing	08/25/2015
T19	Bulk Density ("Unit Weight") and Voids in Aggregate	12/03/2017
T21	Organic Impurities in Fine Aggregates for Concrete	04/14/2021
T27	Sieve Analysis of Fine and Coarse Aggregates	08/25/2015
T84	Specific Gravity (Relative Density) and Absorption of Fine Aggregate	08/25/2015
T85	Specific Gravity and Absorption of Coarse Aggregate	08/25/2015
T96	Resistance to Abrasion of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	08/25/2015
T112	Clay Lumps and Friable Particles in Aggregate	12/03/2017
T176	Plastic Fines in Graded Aggregates and Soils by Use of the Sand Equivalent Test	03/01/2006
T255	Total Moisture Content of Aggregate by Drying	08/25/2015
T335	Determining the Percentage of Fractured Particles in Coarse Aggregate	01/18/2023
C29	Bulk Density ("Unit Weight") and Voids in Aggregate	12/03/2017
C40	Organic Impurities in Fine Aggregates for Concrete	04/14/2021
C117	Materials Finer Than 75- μ m (No. 200) Sieve in Mineral Aggregates by Washing	08/25/2015
C127	Specific Gravity and Absorption of Coarse Aggregate	08/25/2015
C128	Specific Gravity (Relative Density) and Absorption of Fine Aggregate	08/25/2015
C131	Resistance to Abrasion of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	08/25/2015
C136	Sieve Analysis of Fine and Coarse Aggregates	08/25/2015
C142	Clay Lumps and Friable Particles in Aggregate	12/03/2017
C535	Resistance to Degradation of Large-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	08/25/2015
C566	Total Moisture Content of Aggregate by Drying	08/25/2015



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Aggregate (Continued)

Standard:

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C702 Reducing Samples of Aggregate to Testing Size	08/25/2015
D75 Sampling Aggregate	06/19/2018
D2419 Plastic Fines in Graded Aggregates and Soils by Use of the Sand Equivalent Test	03/01/2006
D5821 Determining the Percentage of Fractured Particles in Coarse Aggregate	01/18/2023



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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	08/25/2015
R60	Sampling Freshly Mixed Concrete	08/25/2015
R100 (Beams)	Making and Curing Concrete Test Specimens in the Field	08/25/2015
R100 (Cylinders)	Making and Curing Concrete Test Specimens in the Field	08/25/2015
T22	Compressive Strength of Cylindrical Concrete Specimens	08/25/2015
T24 (Testing Drilled Cores of Concrete)	Testing Drilled Cores of Concrete	08/25/2015
T97	Flexural Strength of Concrete (Using Simple Beam with Third-Point Loading)	08/25/2015
T119	Slump of Hydraulic Cement Concrete	08/25/2015
T121	Density (Unit Weight), Yield, and Air Content of Concrete	08/25/2015
T152	Air Content of Freshly Mixed Concrete by the Pressure Method	08/25/2015
T196	Air Content of Freshly Mixed Concrete by the Volumetric Method	04/14/2021
T231 (6000 psi and below)	Capping Cylindrical Concrete Specimens	08/26/2024
T309	Temperature of Freshly Mixed Portland Cement Concrete	08/25/2015
C31 (Beams)	Making and Curing Concrete Test Specimens in the Field	01/03/2011
C31 (Cylinders)	Making and Curing Concrete Test Specimens in the Field	01/03/2011
C39	Compressive Strength of Cylindrical Concrete Specimens	01/03/2011
C42 (Testing Drilled Cores of Concrete)	Testing Drilled Cores of Concrete	01/03/2011
C78	Flexural Strength of Concrete (Using Simple Beam with Third-Point Loading)	01/03/2011
C138	Density (Unit Weight), Yield, and Air Content of Concrete	01/03/2011
C143	Slump of Hydraulic Cement Concrete	01/03/2011
C172	Sampling Freshly Mixed Concrete	01/03/2011
C173	Air Content of Freshly Mixed Concrete by the Volumetric Method	04/14/2021
C231	Air Content of Freshly Mixed Concrete by the Pressure Method	01/03/2011



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Concrete (Continued)

Standard:

Accredited Since:

C511	Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	05/09/2013
C617 (6000 psi and below)	Capping Cylindrical Concrete Specimens	08/26/2024
C942 (Pre-Mixed)	Compressive Strength of Grouts for Preplaced-Aggregate Concrete in the Laboratory (Pre-Mixed Grout)	08/25/2015
C1064	Temperature of Freshly Mixed Portland Cement Concrete	01/03/2011
C1231 (7000 psi and below)	Use of Unbonded Caps in Determination of Compressive Strength of Hardened Concrete Cylinders	01/03/2011
C1542	Measuring Length of Concrete Cores	08/25/2015



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Masonry

Standard:

Accredited Since:

C140 (Concrete Masonry Units) Sampling and Testing Concrete Masonry Units and Related Units	01/03/2011
C511 Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	08/25/2015
C1019 Sampling and Testing Grout	08/25/2015
C1552 Capping Concrete Masonry Units, Related Units and Masonry Prisms for Compression Testing	01/03/2011