



CERTIFICATE OF ACCREDITATION



Kleinfelder, Inc.

in

Rancho Cordova, 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).

A handwritten signature in black ink, appearing to read 'Jim Tymon', is written over a horizontal line.

Jim Tymon,
AASHTO Executive Director

A handwritten signature in black ink, appearing to read 'Matt Linneman', is written over a horizontal line.

Matt Linneman,
AASHTO COMP Chair

This certificate was generated on 10/27/2026 at 1:32 AM Eastern Time. Please confirm the current accreditation status of this laboratory at aashtoresource.org/aap/accreditation-directory



SCOPE OF AASHTO ACCREDITATION FOR:

Kleinfelder, Inc.

in Rancho Cordova, California, USA

Quality Management System

Standard:

Accredited Since:

R18	Establishing and Implementing a Quality System for Construction Materials Testing Laboratories	07/01/2000
C1077 (Aggregate)	Laboratories Testing Concrete and Concrete Aggregates	04/03/2020
C1077 (Concrete)	Laboratories Testing Concrete and Concrete Aggregates	01/10/2011
C1093 (Masonry)	Accreditation of Testing Agencies for Unit Masonry	02/01/2011
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	01/10/2011
E329 (Masonry)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	04/09/2013
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	08/13/2024



SCOPE OF AASHTO ACCREDITATION FOR:

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in Rancho Cordova, California, USA

Asphalt Mixture

Standard:

Accredited Since:

T30	Mechanical Analysis of Extracted Aggregate	03/01/2002
T164	Quantitative Extraction of Asphalt Binder from Hot Mix Asphalt (HMA)	03/01/2002
T166	Bulk Specific Gravity of Compacted Hot Mix Asphalt Using Saturated Surface-Dry Specimens	03/01/2002
T209	Maximum Specific Gravity of Hot Mix Asphalt Paving Mixtures	03/01/2002
T246	Resistance to Deformation and Cohesion of Bituminous Mixtures by Means of Hveem Apparatus	01/11/2013
T247	Preparation of Test Specimens of Bituminous Mixtures by Means of California Kneading Compactor	03/01/2002
T269	Percent Air Voids in Compacted Dense and Open Bituminous Paving Mixtures	11/04/2024
T308	Determining the Asphalt Content of Hot Mix Asphalt (HMA) by the Ignition Method	03/01/2002
D1560 (Stability)	Resistance to Deformation of Bituminous Mixtures by Means of Hveem Apparatus	03/01/2002
D1561	Preparation of Test Specimens of Bituminous Mixtures by Means of California Kneading Compactor	03/01/2002
D2041	Maximum Specific Gravity of Hot Mix Asphalt Paving Mixtures	03/01/2002
D2172	Quantitative Extraction of Asphalt Binder from Hot Mix Asphalt (HMA)	03/01/2002
D2726	Bulk Specific Gravity of Compacted Hot Mix Asphalt Using Saturated Surface-Dry Specimens	03/01/2002
D3203	Percent Air Voids in Compacted Dense and Open Bituminous Paving Mixtures	11/04/2024
D5444	Mechanical Analysis of Extracted Aggregate	03/01/2002
D6307	Determining the Asphalt Content of Hot Mix Asphalt (HMA) by the Ignition Method	03/01/2002



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Soil

Standard:

Accredited Since:

R58	Dry Preparation of Disturbed Soil and Soil Aggregate Samples for Test	07/01/2000
T88	Particle Size Analysis of Soils by Hydrometer	07/01/2000
T89	Determining the Liquid Limit of Soils (Atterberg Limits)	07/01/2000
T90	Plastic Limit of Soils (Atterberg Limits)	07/01/2000
T99	The Moisture-Density Relations of Soils Using a 5.5 lb [2.5 kg] Rammer and a 12 in. [305 mm] Drop	07/01/2000
T100	Specific Gravity of Soils	07/01/2000
T180	Moisture-Density Relations of Soils Using a 10 lb [4.54 kg] Rammer and an 18 in. [457 mm] Drop	07/01/2000
T190	Resistance R-Value and Expansion Pressure of Compacted Soils	07/01/2000
T191	Density of Soil In-Place by the Sand Cone Method	07/01/2000
T208	Unconfined Compressive Strength of Cohesive Soil	07/01/2000
T215	Permeability of Granular Soils (Constant Head)	07/26/2019
T216	One-Dimensional Consolidation Properties of Soils Using Incremental Loading	07/01/2000
T236	Direct Shear Test of Soils Under Consolidated Drained Conditions	07/01/2000
T265	Laboratory Determination of Moisture Content of Soils	07/01/2000
T296	Unconsolidated, Undrained Compressive Strength of Cohesive Soils in Triaxial Compression	07/01/2000
T297	Consolidated-Undrained Triaxial Compression Test on Cohesive Soils	07/01/2000
T310	In-Place Density and Moisture Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)	07/01/2000
D421	Dry Preparation of Disturbed Soil and Soil Aggregate Samples for Test	07/01/2000
D422	Particle Size Analysis of Soils by Hydrometer	07/01/2000
D698	The Moisture-Density Relations of Soils Using a 5.5 lb [2.5 kg] Rammer and a 12 in. [305 mm] Drop	07/01/2000
D854	Specific Gravity of Soils	07/01/2000
D1140	Amount of Material in Soils Finer than the No. 200 (75-µm) Sieve	07/01/2000
D1556	Density of Soil In-Place by the Sand Cone Method	07/01/2000



SCOPE OF AASHTO ACCREDITATION FOR:

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in Rancho Cordova, California, USA

Soil (Continued)

Standard:	Accredited Since:
D1557 Moisture-Density Relations of Soils Using a 10 lb [4.54 kg] Rammer and an 18 in. [457 mm] Drop	07/01/2000
D2166 Unconfined Compressive Strength of Cohesive Soil	07/01/2000
D2216 Laboratory Determination of Moisture Content of Soils	07/01/2000
D2434 Permeability of Granular Soils (Constant Head)	06/17/2015
D2435 One-Dimensional Consolidation Properties of Soils Using Incremental Loading	07/01/2000
D2487 Classification of Soils for Engineering Purposes (Unified Soil Classification System)	07/01/2000
D2488 Description and Identification of Soils (Visual-Manual Procedure)	07/01/2000
D2844 Resistance R-Value and Expansion Pressure of Compacted Soils	07/01/2000
D2850 Unconsolidated, Undrained Compressive Strength of Cohesive Soils in Triaxial Compression	07/01/2000
D2974 Determination of Organic Content in Soils by Loss on Ignition	07/01/2000
D3080 Direct Shear Test of Soils Under Consolidated Drained Conditions	07/26/2019
D4318 Determining the Liquid Limit of Soils (Atterberg Limits)	07/01/2000
D4318 Plastic Limit of Soils (Atterberg Limits)	07/01/2000
D4718 Oversize Particle Correction	06/17/2015
D4767 Consolidated-Undrained Triaxial Compression Test on Cohesive Soils	07/01/2000
D4829 Expansion Index of Soils	07/01/2000
D5084 Hydraulic Conductivity of Saturated Porous Materials Using a Flexible Wall Permeameter	07/01/2000
D6913 Particle-Size Distribution (Gradation) of Soils Using Sieve Analysis	06/17/2015
D6938 In-Place Density and Moisture Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)	07/01/2000
D7263 Density and Unit Weight of Soil	08/13/2024
D7928 Particle-Size Distribution (Gradation) of Fine-Grained Soils Using the Sedimentation (Hydrometer) Analysis	08/13/2024



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Rock

Standard:

Accredited Since:

D3967	Splitting Tensile Strength of Intact Rock Core Specimens	07/26/2019
D4543	Preparing Rock Core as Cylindrical Test Specimens and Verifying Conformance to Dimensional and Shape Tolerances	07/26/2019
D4644	Slake Durability of Shales and Weak Rocks	07/26/2019
D5731	Point Load Strength Index of Rock	07/26/2019
D7012 (Method C)	Compressive Strength of Rock Core Specimens (Method C)	07/26/2019



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Aggregate

Standard:

Accredited Since:

R76	Reducing Samples of Aggregate to Testing Size	07/01/2000
R90	Sampling Aggregate	01/11/2013
T11	Materials Finer Than 75- μ m (No. 200) Sieve in Mineral Aggregates by Washing	07/01/2000
T19	Bulk Density ("Unit Weight") and Voids in Aggregate	07/01/2000
T21	Organic Impurities in Fine Aggregates for Concrete	07/01/2000
T27	Sieve Analysis of Fine and Coarse Aggregates	07/01/2000
T84	Specific Gravity (Relative Density) and Absorption of Fine Aggregate	07/01/2000
T85	Specific Gravity and Absorption of Coarse Aggregate	07/01/2000
T96	Resistance to Abrasion of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	07/01/2000
T112	Clay Lumps and Friable Particles in Aggregate	07/01/2000
T176	Plastic Fines in Graded Aggregates and Soils by Use of the Sand Equivalent Test	07/01/2000
T210	Aggregate Durability Index	07/01/2000
T255	Total Moisture Content of Aggregate by Drying	07/01/2000
T304	Uncompacted Void Content of Fine Aggregate (Influenced by Shape, Texture, and Grading)	07/01/2000
T335	Determining the Percentage of Fractured Particles in Coarse Aggregate	06/17/2015
C29	Bulk Density ("Unit Weight") and Voids in Aggregate	07/01/2000
C40	Organic Impurities in Fine Aggregates for Concrete	07/01/2000
C117	Materials Finer Than 75- μ m (No. 200) Sieve in Mineral Aggregates by Washing	07/01/2000
C127	Specific Gravity and Absorption of Coarse Aggregate	07/01/2000
C128	Specific Gravity (Relative Density) and Absorption of Fine Aggregate	07/01/2000
C131	Resistance to Abrasion of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	07/01/2000
C136	Sieve Analysis of Fine and Coarse Aggregates	07/01/2000
C142	Clay Lumps and Friable Particles in Aggregate	07/01/2000



SCOPE OF AASHTO ACCREDITATION FOR:

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in Rancho Cordova, California, USA

Aggregate (Continued)

Standard:

Accredited Since:

C535	Resistance to Degradation of Large-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	07/01/2000
C566	Total Moisture Content of Aggregate by Drying	07/01/2000
C702	Reducing Samples of Aggregate to Testing Size	07/01/2000
C1252	Uncompacted Void Content of Fine Aggregate (Influenced by Shape, Texture, and Grading)	07/01/2000
D75	Sampling Aggregate	01/11/2013
D2419	Plastic Fines in Graded Aggregates and Soils by Use of the Sand Equivalent Test	07/01/2000
D3744	Aggregate Durability Index	07/01/2000
D4791	Flat Particles, Elongated Particles, or Flat and Elongated Particles in Coarse Aggregate	07/01/2000
D5821	Determining the Percentage of Fractured Particles in Coarse Aggregate	07/01/2000



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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

10/26/2010

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

06/17/2015



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Iron and Steel

Standard:

Accredited Since:

M111	Zinc Coatings on Iron and Steel: Thickness of Zinc (Magnetic)	07/26/2019
M31-T244	Carbon-Steel Bars, Deformed and Plain: Tension (Elongation)	06/17/2015
M31-T244	Carbon-Steel Bars, Deformed and Plain: Tension (Ultimate Tensile Strength)	06/17/2015
M31-T244	Carbon-Steel Bars, Deformed and Plain: Tension (Yield Strength)	06/17/2015
M31-T285	Carbon-Steel Bars, Deformed and Plain: Bend Test	01/11/2013
M203-T244	Steel Strand, Uncoated Seven-Wire: Tension (Elongation)	06/17/2015
M203-T244	Steel Strand, Uncoated Seven-Wire: Tension (Ultimate Tensile Strength)	06/17/2015
M203-T244	Steel Strand, Uncoated Seven-Wire: Tension (Yield Strength)	06/17/2015
M270-T244	Structural Steel: Tension (Elongation)	06/17/2015
M270-T244	Structural Steel: Tension (Ultimate Tensile Strength)	06/17/2015
M270-T244	Structural Steel: Tension (Yield Strength)	06/17/2015
T244	Externally Threaded Fasteners (Bolts): Proof Load Determination	07/26/2019
T244	Externally Threaded Fasteners (Bolts): Ultimate Tensile Strength	07/26/2019
A709-A6	Structural Steel: Tension (Elongation)	06/17/2015
A709-A6	Structural Steel: Tension (Ultimate Tensile Strength)	06/17/2015
A709-A6	Structural Steel: Tension (Yield Strength)	06/17/2015
A563-E18	Internally Threaded Fasteners (Nuts): Rockwell Hardness	06/17/2015
A123-E376	Zinc Coatings on Iron and Steel: Thickness of Zinc (Magnetic)	08/03/2017
A563-F606	Internally Threaded Fasteners (Nuts): Proof Load Determination	08/03/2017
A615-A370	Carbon-Steel Bars, Deformed and Plain: Tension (Elongation)	06/17/2015
A615-A370	Carbon-Steel Bars, Deformed and Plain: Tension (Ultimate Tensile Strength)	06/17/2015
A615-A370	Carbon-Steel Bars, Deformed and Plain: Tension (Yield Strength)	06/17/2015
A615-E290	Carbon-Steel Bars, Deformed and Plain: Bend Test	03/19/2008



SCOPE OF AASHTO ACCREDITATION FOR:

Kleinfelder, Inc.

in Rancho Cordova, California, USA

Iron and Steel (Continued)

Standard:	Accredited Since:
A706-A370 Low Alloy Steel Bars, Deformed and Plain: Tension (Elongation)	06/17/2015
A706-A370 Low Alloy Steel Bars, Deformed and Plain: Tension (Ultimate Tensile Strength)	06/17/2015
A706-A370 Low Alloy Steel Bars, Deformed and Plain: Tension (Yield Strength)	06/17/2015
A706-E290 Low Alloy Steel Bars, Deformed and Plain: Bend Test	01/11/2013
A970-A370 Headed Steel Bars: Tension (Elongation)	06/17/2015
A970-A370 Headed Steel Bars: Tension (Ultimate Tensile Strength)	06/17/2015
A970-A370 Headed Steel Bars: Tension (Yield Strength)	06/17/2015
A416-A1061 Steel Strand, Uncoated Seven-Wire: Tension (Elongation)	06/17/2015
A416-A1061 Steel Strand, Uncoated Seven-Wire: Tension (Ultimate Tensile Strength)	06/17/2015
A416-A1061 Steel Strand, Uncoated Seven-Wire: Tension (Yield Strength)	06/17/2015
A615-A1034 Carbon-Steel Bars, Deformed and Plain: Testing Mechanical Splices	08/03/2017
A706-A1034 Low Alloy Steel Bars, Deformed and Plain: Testing Mechanical Splices	01/11/2013
F436-E18 Hardened Steel Washers: Rockwell Hardness	06/17/2015
F3125-E18 Externally Threaded Fasteners (Bolts): Rockwell Hardness	03/19/2008
F1554-A370 Anchor Bolts: Tension (Elongation)	08/03/2017
F1554-A370 Anchor Bolts: Tension (Ultimate Tensile Strength of bar stock)	07/26/2019
F1554-A370 Anchor Bolts: Tension (Yield Strength)	08/03/2017
F1554-F606 Anchor Bolts: Tension (Ultimate Tensile Strength of finished bolts)	08/03/2017
F3125-F606 Externally Threaded Fasteners (Bolts): Proof Load Determination	03/19/2008
F3125-F606 Externally Threaded Fasteners (Bolts): Ultimate Tensile Strength	03/19/2008
A615-CT670 Carbon-Steel Bars, Deformed and Plain: Testing Mechanical and Welded Splices	06/17/2015
A706-CT670 Low Alloy Steel Bars, Deformed and Plain: Testing Mechanical and Welded Splices	01/11/2013



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in Rancho Cordova, California, USA

Concrete

Standard:

Accredited Since:

M201	Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	06/28/2013
R60	Sampling Freshly Mixed Concrete	06/28/2013
R100 (Beams)	Making and Curing Concrete Test Specimens in the Field	01/13/2025
R100 (Cylinders)	Making and Curing Concrete Test Specimens in the Field	01/10/2019
T22	Compressive Strength of Cylindrical Concrete Specimens	06/28/2013
T24 (Testing Drilled Cores of Concrete)	Testing Drilled Cores of Concrete	06/28/2013
T97	Flexural Strength of Concrete (Using Simple Beam with Third-Point Loading)	01/25/2022
T119	Slump of Hydraulic Cement Concrete	06/28/2013
T121	Density (Unit Weight), Yield, and Air Content of Concrete	06/28/2013
T152	Air Content of Freshly Mixed Concrete by the Pressure Method	06/28/2013
T196	Air Content of Freshly Mixed Concrete by the Volumetric Method	06/28/2013
T231 (6000 psi and below)	Capping Cylindrical Concrete Specimens	01/10/2019
T309	Temperature of Freshly Mixed Portland Cement Concrete	06/28/2013
C31 (Beams)	Making and Curing Concrete Test Specimens in the Field	01/13/2025
C31 (Cylinders)	Making and Curing Concrete Test Specimens in the Field	01/10/2019
C39	Compressive Strength of Cylindrical Concrete Specimens	12/01/2000
C42 (Testing Drilled Cores of Concrete)	Testing Drilled Cores of Concrete	12/01/2000
C78	Flexural Strength of Concrete (Using Simple Beam with Third-Point Loading)	01/25/2022
C138	Density (Unit Weight), Yield, and Air Content of Concrete	12/01/2000
C143	Slump of Hydraulic Cement Concrete	12/01/2000
C172	Sampling Freshly Mixed Concrete	12/01/2000
C173	Air Content of Freshly Mixed Concrete by the Volumetric Method	12/01/2000
C231	Air Content of Freshly Mixed Concrete by the Pressure Method	12/01/2000



SCOPE OF AASHTO ACCREDITATION FOR:

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in Rancho Cordova, California, USA

Concrete (Continued)

Standard:		Accredited Since:
C511	Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	06/28/2013
C617 (6000 psi and below)	Capping Cylindrical Concrete Specimens	01/10/2019
C1064	Temperature of Freshly Mixed Portland Cement Concrete	12/01/2000
C1140 (Obtaining and Testing Specimens)	Preparing and Testing Specimens from Shotcrete Test Panels	09/17/2021
C1231 (7000 psi and below)	Use of Unbonded Caps in Determination of Compressive Strength of Hardened Concrete Cylinders	02/01/2011
C1542	Measuring Length of Concrete Cores	06/28/2013



SCOPE OF AASHTO ACCREDITATION FOR:

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Controlled Low Strength Material (CLSM)

Standard:

Accredited Since:

D4832 Preparation and Testing of Controlled Low Strength Material (CLSM) Test Cylinders

01/13/2025

D5971 Sampling Freshly Mixed Controlled Low-Strength Material (CLSM)

01/13/2025



SCOPE OF AASHTO ACCREDITATION FOR:

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in Rancho Cordova, California, USA

Masonry

Standard:

Accredited Since:

C140 (Full-Size Concrete Masonry Units)	Sampling and Testing Concrete Masonry Units and Related Units	01/13/2025
C511	Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	06/28/2013
C1019	Sampling and Testing Grout	02/01/2011
C1314 (Prisms Constructed of Full-Size Concrete Masonry Units)	Compressive Strength of Masonry Prisms	01/13/2025
C1552	Capping Concrete Masonry Units, Related Units and Masonry Prisms for Compression Testing	02/01/2011