



CERTIFICATE OF ACCREDITATION



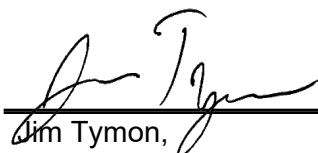
Kleinfelder, Inc.

in

Dublin, 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).


Jim Tymon,
AASHTO Executive Director


Matt Linneman,
AASHTO COMP Chair

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SCOPE OF AASHTO ACCREDITATION FOR:

Kleinfelder, Inc.
in Dublin, California, USA

Quality Management System

Standard:

Accredited Since:

R18	Establishing and Implementing a Quality System for Construction Materials Testing Laboratories	05/15/1994
C1077 (Aggregate)	Laboratories Testing Concrete and Concrete Aggregates	01/10/2011
C1077 (Concrete)	Laboratories Testing Concrete and Concrete Aggregates	07/12/2011
C1093 (Masonry)	Accreditation of Testing Agencies for Unit Masonry	10/29/2013
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
D3666 (Emulsified Asphalt)	Minimum Requirements for Agencies Testing and Inspecting Road and Paving Materials	04/29/2014
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	10/29/2013
E329 (Emulsified Asphalt)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	04/29/2014
E329 (Masonry)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	08/06/2015
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	11/02/2012



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Emulsified Asphalt

Standard:

Accredited Since:

T59	Particle Charge	11/02/2012
T59	Residue by Evaporation	11/02/2012
T59	Settlement and Storage Stability	11/02/2012
T59	Sieve Test	11/02/2012
T59-T72	Saybolt Furol Viscosity at 25°C (77°F)	08/13/2013
T59-T72	Saybolt Furol Viscosity at 50°C (122°F)	08/13/2013
D6930	Settlement and Storage Stability	11/02/2012
D6933	Sieve Test	11/02/2012
D6934	Residue by Evaporation	11/02/2012
D7402	Particle Charge	11/02/2012
D7496-D88	Saybolt Furol Viscosity at 25°C (77°F)	08/13/2013
D7496-D88	Saybolt Furol Viscosity at 50°C (122°F)	08/13/2013



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Asphalt Mixture

Standard:

Accredited Since:

R30	Mixture Conditioning of Hot Mix Asphalt (HMA)	10/21/2022
R47	Reducing Samples of Hot-Mix Asphalt to Testing Size	05/15/1994
R68	Preparation of Asphalt Mixtures by Means of the Marshall Apparatus	06/17/2015
T30	Mechanical Analysis of Extracted Aggregate	05/15/1994
T164	Quantitative Extraction of Asphalt Binder from Hot Mix Asphalt (HMA)	05/15/1994
T166	Bulk Specific Gravity of Compacted Hot Mix Asphalt Using Saturated Surface-Dry Specimens	05/15/1994
T209	Maximum Specific Gravity of Hot Mix Asphalt Paving Mixtures	05/15/1994
T245	Resistance to Plastic Flow of Asphalt Mixtures Using Marshall Apparatus	06/17/2015
T246	Resistance to Deformation and Cohesion of Bituminous Mixtures by Means of Hveem Apparatus	11/02/2012
T247	Preparation of Test Specimens of Bituminous Mixtures by Means of California Kneading Compactor	05/15/1994
T269	Percent Air Voids in Compacted Dense and Open Bituminous Paving Mixtures	05/15/1994
T275	Bulk Specific Gravity of Compacted Bituminous Mixtures Using Paraffin-Coated Specimens	05/15/1994
T283	Resistance of Compacted Mixtures to Moisture Induced Damage	05/15/1994
T305	Draindown Characteristics of HMA	08/13/2013
T308	Determining the Asphalt Content of Hot Mix Asphalt (HMA) by the Ignition Method	05/15/1994
T312	Preparing and Determining the Density of Hot Mix Asphalt (HMA) Specimens by Means of the Superpave Gyrotory Compactor	07/31/2013
T324	Hamburg Wheel-Track Testing of Compacted Hot-Mix Asphalt (HMA)	03/05/2025
T329	Moisture Content of Hot-Mix Asphalt (HMA) by Oven Method	09/06/2017
D1188	Bulk Specific Gravity of Compacted Bituminous Mixtures Using Paraffin-Coated Specimens	05/15/1994
D1560 (Stability)	Resistance to Deformation of Bituminous Mixtures by Means of Hveem Apparatus	05/15/1994
D1561	Preparation of Test Specimens of Bituminous Mixtures by Means of California Kneading Compactor	05/15/1994
D2041	Maximum Specific Gravity of Hot Mix Asphalt Paving Mixtures	05/15/1994
D2172	Quantitative Extraction of Asphalt Binder from Hot Mix Asphalt (HMA)	08/09/2013



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Asphalt Mixture (Continued)

Standard:		Accredited Since:
D2726	Bulk Specific Gravity of Compacted Hot Mix Asphalt Using Saturated Surface-Dry Specimens	05/15/1994
D3203	Percent Air Voids in Compacted Dense and Open Bituminous Paving Mixtures	05/15/1994
D3549	Thickness or Height of Compacted Bituminous Paving Mixture Specimens	09/21/2022
D4867	Resistance of Compacted Mixtures to Moisture Induced Damage	05/15/1994
D5444	Mechanical Analysis of Extracted Aggregate	05/15/1994
D6307	Determining the Asphalt Content of Hot Mix Asphalt (HMA) by the Ignition Method	05/15/1994
D6390	Draindown Characteristics of HMA	08/13/2013
D6925	Preparing and Determining the Density of Hot Mix Asphalt (HMA) Specimens by Means of the Superpave Gyratory Compactor	07/31/2013
D6926	Preparation of Asphalt Mixtures by Means of the Marshall Apparatus	05/15/1994
D6927	Resistance to Plastic Flow of Asphalt Mixtures Using Marshall Apparatus	05/15/1994



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Soil

Standard:

Accredited Since:

R58	Dry Preparation of Disturbed Soil and Soil Aggregate Samples for Test	05/15/1994
R74	Wet Preparation of Disturbed Soil Samples for Test	05/15/1994
T88	Particle Size Analysis of Soils by Hydrometer	05/15/1994
T89	Determining the Liquid Limit of Soils (Atterberg Limits)	05/15/1994
T90	Plastic Limit of Soils (Atterberg Limits)	05/15/1994
T99	The Moisture-Density Relations of Soils Using a 5.5 lb [2.5 kg] Rammer and a 12 in. [305 mm] Drop	05/15/1994
T100	Specific Gravity of Soils	05/15/1994
T134	Moisture-Density Relations of Soil-Cement Mixtures	09/21/2022
T135	Wetting-and-Drying Test of Compacted Soil-Cement Mixtures	09/17/2024
T190	Resistance R-Value and Expansion Pressure of Compacted Soils	05/15/1994
T208	Unconfined Compressive Strength of Cohesive Soil	05/15/1994
T216	One-Dimensional Consolidation Properties of Soils Using Incremental Loading	05/15/1994
T265	Laboratory Determination of Moisture Content of Soils	05/15/1994
T267	Determination of Organic Content in Soils by Loss on Ignition	05/15/1994
T296	Unconsolidated, Undrained Compressive Strength of Cohesive Soils in Triaxial Compression	05/15/1994
T297	Consolidated-Undrained Triaxial Compression Test on Cohesive Soils	05/15/1994
D421	Dry Preparation of Disturbed Soil and Soil Aggregate Samples for Test	05/15/1994
D422	Particle Size Analysis of Soils by Hydrometer	05/15/1994
D558	Moisture-Density Relations of Soil-Cement Mixtures	09/21/2022
D559	Wetting-and-Drying Test of Compacted Soil-Cement Mixtures	09/17/2024
D698	The Moisture-Density Relations of Soils Using a 5.5 lb [2.5 kg] Rammer and a 12 in. [305 mm] Drop	05/15/1994
D854	Specific Gravity of Soils	05/15/1994
D1140	Amount of Material in Soils Finer than the No. 200 (75-µm) Sieve	05/15/1994



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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	05/15/1994
D1633 Compressive Strength of Molded Soil-Cement Cylinders	09/21/2022
D2166 Unconfined Compressive Strength of Cohesive Soil	05/15/1994
D2216 Laboratory Determination of Moisture Content of Soils	05/15/1994
D2435 One-Dimensional Consolidation Properties of Soils Using Incremental Loading	05/15/1994
D2487 Classification of Soils for Engineering Purposes (Unified Soil Classification System)	05/15/1994
D2488 Description and Identification of Soils (Visual-Manual Procedure)	05/15/1994
D2844 Resistance R-Value and Expansion Pressure of Compacted Soils	05/15/1994
D2850 Unconsolidated, Undrained Compressive Strength of Cohesive Soils in Triaxial Compression	05/15/1994
D2974 Determination of Organic Content in Soils by Loss on Ignition	05/15/1994
D4318 Determining the Liquid Limit of Soils (Atterberg Limits)	05/15/1994
D4318 Plastic Limit of Soils (Atterberg Limits)	05/15/1994
D4643 Determination of Water (Moisture) Content of Soil by Microwave Oven Heating	11/02/2012
D4718 Oversize Particle Correction	09/21/2022
D4767 Consolidated-Undrained Triaxial Compression Test on Cohesive Soils	05/15/1994
D4829 Expansion Index of Soils	05/15/1994
D5084 Hydraulic Conductivity of Saturated Porous Materials Using a Flexible Wall Permeameter	05/15/1994
D6913 Particle-Size Distribution (Gradation) of Soils Using Sieve Analysis	09/21/2022
D7263 Density and Unit Weight of Soil	09/17/2024
D7928 Particle-Size Distribution (Gradation) of Fine-Grained Soils Using the Sedimentation (Hydrometer) Analysis	09/21/2022



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Aggregate

Standard:

Accredited Since:

R76	Reducing Samples of Aggregate to Testing Size	05/15/1994
R90	Sampling Aggregate	09/17/2024
T11	Materials Finer Than 75- μ m (No. 200) Sieve in Mineral Aggregates by Washing	05/15/1994
T19	Bulk Density ("Unit Weight") and Voids in Aggregate	05/15/1994
T21	Organic Impurities in Fine Aggregates for Concrete	05/15/1994
T27	Sieve Analysis of Fine and Coarse Aggregates	05/15/1994
T84	Specific Gravity (Relative Density) and Absorption of Fine Aggregate	05/15/1994
T85	Specific Gravity and Absorption of Coarse Aggregate	05/15/1994
T96	Resistance to Abrasion of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	05/15/1994
T104	Soundness of Aggregate by Use of Sodium Sulfate or Magnesium Sulfate	05/15/1994
T112	Clay Lumps and Friable Particles in Aggregate	05/15/1994
T113	Lightweight Pieces in Aggregate	05/15/1994
T176	Plastic Fines in Graded Aggregates and Soils by Use of the Sand Equivalent Test	05/15/1994
T210	Aggregate Durability Index	05/15/1994
T255	Total Moisture Content of Aggregate by Drying	05/15/1994
T304	Uncompacted Void Content of Fine Aggregate (Influenced by Shape, Texture, and Grading)	05/15/1994
T335	Determining the Percentage of Fractured Particles in Coarse Aggregate	06/17/2015
C29	Bulk Density ("Unit Weight") and Voids in Aggregate	05/15/1994
C40	Organic Impurities in Fine Aggregates for Concrete	05/15/1994
C88	Soundness of Aggregate by Use of Sodium Sulfate or Magnesium Sulfate	05/15/1994
C117	Materials Finer Than 75- μ m (No. 200) Sieve in Mineral Aggregates by Washing	05/15/1994
C123	Lightweight Pieces in Aggregate	05/15/1994
C127	Specific Gravity and Absorption of Coarse Aggregate	05/15/1994



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Aggregate (Continued)

Standard:	Accredited Since:
C128 Specific Gravity (Relative Density) and Absorption of Fine Aggregate	05/15/1994
C131 Resistance to Abrasion of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	05/15/1994
C136 Sieve Analysis of Fine and Coarse Aggregates	05/15/1994
C142 Clay Lumps and Friable Particles in Aggregate	05/15/1994
C535 Resistance to Degradation of Large-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	05/15/1994
C566 Total Moisture Content of Aggregate by Drying	05/15/1994
C702 Reducing Samples of Aggregate to Testing Size	05/15/1994
C1252 Uncompacted Void Content of Fine Aggregate (Influenced by Shape, Texture, and Grading)	05/15/1994
D75 Sampling Aggregate	09/17/2024
D2419 Plastic Fines in Graded Aggregates and Soils by Use of the Sand Equivalent Test	05/15/1994
D3744 Aggregate Durability Index	05/15/1994
D4791 Flat Particles, Elongated Particles, or Flat and Elongated Particles in Coarse Aggregate	05/15/1994
D5821 Determining the Percentage of Fractured Particles in Coarse Aggregate	05/15/1994



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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

11/02/2012



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Iron and Steel

Standard:

Accredited Since:

M31-T244 Carbon-Steel Bars, Deformed and Plain: Tension (Elongation)	11/05/2021
M31-T244 Carbon-Steel Bars, Deformed and Plain: Tension (Ultimate Tensile Strength)	11/05/2021
M31-T244 Carbon-Steel Bars, Deformed and Plain: Tension (Yield Strength)	11/05/2021
M31-T285 Carbon-Steel Bars, Deformed and Plain: Bend Test	03/02/2016
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	07/12/2011



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Concrete

Standard:

Accredited Since:

C31 (Beams)	Making and Curing Concrete Test Specimens in the Field	07/12/2011
C31 (Cylinders)	Making and Curing Concrete Test Specimens in the Field	07/12/2011
C39	Compressive Strength of Cylindrical Concrete Specimens	07/12/2011
C42 (Testing Drilled Cores of Concrete)	Testing Drilled Cores of Concrete	07/12/2011
C78	Flexural Strength of Concrete (Using Simple Beam with Third-Point Loading)	07/12/2011
C138	Density (Unit Weight), Yield, and Air Content of Concrete	07/12/2011
C143	Slump of Hydraulic Cement Concrete	07/12/2011
C157	Length Change of Hardened Hydraulic-Cement, Mortar, and Concrete	07/12/2011
C172	Sampling Freshly Mixed Concrete	07/12/2011
C173	Air Content of Freshly Mixed Concrete by the Volumetric Method	07/12/2011
C192	Making and Curing Concrete Test Specimens in the Laboratory	07/12/2011
C231	Air Content of Freshly Mixed Concrete by the Pressure Method	07/12/2011
C305	Mechanical Mixing of Hydraulic Cement Pastes and Mortars of Plastic Consistency	04/23/2025
C511	Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	10/29/2013
C617 (7000 psi and below)	Capping Cylindrical Concrete Specimens	03/25/2026
C1064	Temperature of Freshly Mixed Portland Cement Concrete	07/12/2011
C1231 (7000 psi and below)	Use of Unbonded Caps in Determination of Compressive Strength of Hardened Concrete Cylinders	07/12/2011
C1260	Potential Alkali Reactivity of Aggregates (Mortar-Bar Method)	07/12/2011
C1293	Determination of Length Change of Concrete Due to Alkali-Silica Reaction	07/12/2011
C1542	Measuring Length of Concrete Cores	03/02/2016
C1567	Determining the Potential Alkali-Silica Reactivity of Combinations of Cementitious Materials and Aggregate (Accelerated Mortar-Bar Method)	07/12/2011



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Masonry

Standard:

Accredited Since:

C140 (Full-Size Concrete Masonry Units)	Sampling and Testing Concrete Masonry Units and Related Units	04/23/2025
C511	Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	03/02/2016
C1019	Sampling and Testing Grout	10/29/2013
C1314 (Prisms Constructed of Full-Size Concrete Masonry Units)	Compressive Strength of Masonry Prisms	04/23/2025
C1552	Capping Concrete Masonry Units, Related Units and Masonry Prisms for Compression Testing	10/29/2013