

TESTING SERVICES OFFERED

Specifications

		A2LA	USACE	AASHTO	OTHER
ASTM E329	Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	X	X	X	
ASTM C1077	Practice for Laboratories Testing Concrete and Aggregates for Use in Construction & Criteria for Lab Evaluation	X	X		
ASTM D3740	Minimum Requirements for Agencies Engaged in the Testing and/or Inspection of Soil and Rock as Used in Engineering Design and Construction	X	X		
ASTM D3666	Minimum Requirements for Agencies Testing and Inspecting Bituminous Paving Materials	X	X	X	
AASHTO R18	Establishing and Implementing a Quality System for Construction Materials Testing Laboratories	X			

Test Methods

		A2LA	USACE	AASHTO	OTHER
CONCRETE					
ASTM C31, AASHTO T23	Making and Curing Concrete Test Specimens in the Field	X	X		WAQTC
ASTM C39, AASHTO T22	Compressive Strength of Cylindrical Concrete Specimens	X	X		ITD
ASTM C42, AASHTO T24	Obtaining and Testing Drilled Cores and Sawed Beams of Concrete				
ASTM C78, AASHTO T97	Flexural Strength of Concrete (Using Simple Beam w/Third-Point Loading)	X	X		
ASTM C138, AASHTO T121	Mass per Cubic Foot, Yield, and Air Content (Gravimetric) of Concrete	X	X		WAQTC
ASTM C143, AASHTO T119	Slump of Hydraulic Cement Concrete	X	X		WAQTC
ASTM C172, AASHTO T141	Sampling Freshly Mixed Concrete	X	X		
ASTM C173, AASHTO T196	Air Content of Freshly Mixed Concrete by the Volumetric Method	X	X		
ASTM C174	Measuring Thickness of Concrete Elements Using Drilled Concrete Cores		X		
ASTM C192, AASHTO T126	Making and Curing Concrete Test Specimens in the Laboratory	X	X		
ASTM C231, AASHTO T152	Air Content of Freshly Mixed Concrete by the Pressure Method	X	X		WAQTC
ASTM C293, AASHTO T177	Flexural Strength of Concrete (Using Simple Beam w/Center-Point Loading)	X			
ASTM C470	Molds for Cylindrical Specimens		X		
ASTM C511	Moist Cabinets, Moist Rooms, & Water Storage Tanks		X		
ASTM C617, AASHTO T231	Capping Cylindrical Concrete Specimens	X	X		ITD
ASTM C642	Density, Absorption, and Voids in Hardened Concrete	X	X		
ASTM C1064, AASHTO T309	Temperature of Freshly Mixed Portland Cement Concrete	X	X		WAQTC
ASTM C1231, AASHTO T22	Use of Unbonded Caps in Determination of Compressive Strength of Hardened Concrete Cylinders	X	X		ITD
AGGREGATES					
ASTM C29, AASHTO T19	Bulk Density ("Unit Weight) and Voids in Aggregate	X	X		ITD
ASTM C40, AASHTO T21	Organic Impurities in Fine Aggregates for Concrete	X	X		
ASTM C88, AASHTO T104	Soundness of Aggregate by Use of Sodium Sulfate or Magnesium Sulfate	X	X		
ASTM C117, AASHTO T11	Materials Finer Than No. 200 Sieve in Mineral Aggregates by Washing	X	X		WAQTC
ASTM C123, AASHTO T113	Lightweight Pieces in Aggregate	X	X		

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ASTM C127, AASHTO T85	Specific Gravity and Absorption of Coarse Aggregate	X	X		WAQTC
ASTM C128, AASHTO T84	Specific Gravity and Absorption of Fine Aggregate	X	X		ITD
ASTM C131, AASHTO T96	Resistance to Degradation of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	X	X		ITD
ASTM C136, AASHTO T27	Sieve Analysis of Fine and Coarse Aggregates	X	X		WAQTC
ASTM C142, AASHTO T112	Clay Lumps and Friable Particles in Aggregate	X	X		
ASTM C535	Resistance to Degradation of Large-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	X	X		
ASTM C566, AASHTO T255	Total Evaporable Moisture Content of Aggregate by Drying	X	X		WAQTC
ASTM C702, AASHTO T248	Reducing Samples of Aggregate to Testing Size	X	X		WAQTC
ASTM C1252	Uncompacted Void Content		X		
ASTM D75, AASHTO T2	Sampling of Aggregates	X	X		
ASTM D2419, AASHTO T176	Plastic Fines in Graded Aggregates and Soil by Use of the Sand Equivalent Method	X	X		WAQTC
ASTM D3744, AASHTO T210	Aggregate Durability Index	X	X		
ASTM D4791, CRD C119	Flat Particles, Elongated Particles, or Flat and Elongated Particles in Coarse Aggregate		X		ITD
ASTM D5821, WAQTC TM1 (IDAHO, WASHINGTON)	Determining the Percentage of Fractured Particles in Coarse Aggregate	X	X		WAQTC
WFLHD (FHWA)	Accelerated Weathering of Aggregate by Use of Dimethyl Sulfoxide	X			
WSDOT 113	Washington Degradation				
ID T-15	Idaho Degradation				
ID T-72	Cleanliness Value				ITD
ID T-116	Disintegration of Quarry Aggregates (Ethylene Glycol)				
		A2LA	USACE	AASHTO	OTHER
ROCK					
ASTM D4644	Slake Durability		X		
		A2LA	USACE	AASHTO	OTHER
SOILS					
ASTM D421, AASHTO T87	Dry Preparation of Disturbed Soil and Soil Aggregate Samples for Test	X	X		
ASTM D422, AASHTO T88	Particle Size Analysis of Soils	X	X		
ASTM D427, AASHTO T92	Determining the Shrinkage Factor of Soils				
ASTM D558	Moisture-Density of Soil-Cement		X		
ASTM D559	Wetting and Drying Soil-Cement		X		
ASTM D560	Freezing and Thawing Soil-Cement		X		
ASTM D698, AASHTO T99	Laboratory Compaction Characteristics of Soil Using Standard Effort	X	X		WAQTC
ASTM D854, AASHTO T100	Specific Gravity of Soils	X	X		ITD
ASTM D1140	Amount of Material in Soils Finer than No. 200 Sieve	X	X		

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ASTM D1556, AASHTO T191	Density of Soil in Place by the Sand Cone Method	X	X		
ASTM D1557, AASHTO T180	Laboratory Compaction Characteristics of Soil Using Modified Effort	X	X		WAQTC
ASTM D1883	California Bearing Ratio of Compacted Soils		X		
ASTM D2166, AASHTO T208	Unconfined Compressive Strength of Cohesive Soils		X		
ASTM D2216, AASHTO T265	Laboratory Determination of Moisture Content of Soils	X	X		WAQTC
ASTM D2434, AASHTO T215	Permeability of Granular Soils (Constant Head)		X		
ASTM D2435, AASHTO T216	One Dimensional Consolidation Properties of Soils				
ASTM D2487	Classification of Soils for Engineering Purposes (USCS)	X	X		
ASTM D2850	Unconsolidated-Undrained Triaxial Compression		X		
ASTM D2922, AASHTO T310	Density of Soil & Soil-Aggregate in Place by Nuclear Methods (Shallow Depth)				WAQTC
ASTM D2937	Density of Soil in Place by Drive Cylinder Method				
ASTM D2938	Unconfined Compressive Strength of Intact Rock Core Specimens				
ASTM D3017, AASHTO T310	Moisture Content of Soil & Soil Aggregate in Place by Nuclear Methods (Shallow Depth)				
ASTM D3080, AASHTO T236	Direct Shear Test of Soil Under Consolidated Drained Conditions				
ASTM D3282	Classification of Soils & Soil-Aggregate Mixtures for Highway Construction Purposes	X			
ASTM D4318, AASHTO T89, T90	Liquid Limit, Plastic Limit & Plasticity Index of Soils	X	X		WAQTC
ASTM D4718, AASHTO T224	Correction for Coarse Particles in Soil Compaction Test				
ASTM D4767	Consolidated-Undrained Triaxial Compression				
ASTM D4829, AASHTO T258	Expansive Index of Soils				
ASTM D5084	Measurement of Hydraulic Conductivity of Saturated Porous Materials Using Flexible Wall Permeameter		X		
AASHTO T272	Family of Curves - One Point Method				WAQTC
AASHTO T288	Determining Minimum Laboratory Soil Resistivity				ITD
AASHTO T289	pH of Soil				ITD

		A2LA	USACE	AASHTO	OTHER
BITUMINOUS					
ASTM D140, AASHTO T40	Sampling Bituminous Materials				
ASTM D979, AASHTO T168	Sampling Bituminous Paving Mixtures	X			
ASTM D1074, AASHTO T167	Compressive Strength of Bituminous Mixtures	X			
ASTM D1188, AASHTO T275	Bulk Specific Gravity of Compacted Bituminous Mixtures Using Paraffin-Coated Specimens	X	X		
ASTM D1461, AASHTO T110	Moisture or Volatile Distillates in Bituminous Paving Mixtures				
ASTM D1559, AASHTO T245	Resistance to Plastic Flow of Bituminous Mixture Using Marshall Apparatus	X		X	
ASTM D1883, AASHTO T193	The California Bearing Ratio				

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		A2LA	USACE	AASHTO	OTHER
ASTM D2041, AASHTO T209	Theoretical Maximum Specific Gravity and Density of Bituminous Paving Mixtures	X	X	X	WAQTC
ASTM D2172, AASHTO T164	Quantitative Extraction of Bitumen from Bituminous Paving Mixtures				
ASTM D2726, AASHTO T166	Bulk Specific Gravity and Density of Non-Absorptive Compacted Bituminous Mixtures	X	X	X	WAQTC
ASTM D2844, AASHTO T190	Resistance R-Value and Expansion Pressure of Compacted Soils				
ASTM D2950, WSDOT 715	Density of Bituminous Concrete in Place by Nuclear Method		X		WAQTC
ASTM D3203, AASHTO T269, CRD C650	Percent Air Voids in Compacted Dense & Open Bituminous Paving Materials	X	X	X	
ASTM D3665, WSDOT T716, IDT WAQTC	Random Sampling of Construction Materials	X			
ASTM D4867, AASHTO T283	Moisture-Induced Damage of HMA (Tensile Strength)			X	
ASTM D5444, AASHTO T30	Mechanical Size Analysis of Extracted Aggregates	X	X	X	WAQTC
ASTM D6307, AASHTO T308	Determining the Asphalt Binder Content of Hot Mix Asphalt by the Ignition Method	X	X	X	WAQTC
ASTM D 6925, AASHTO T312	Hot Mix Asphalt Superpave Gyratory Compactor			X	ITD STQP
ASTM D6926	Preparation of Bituminous Specimens Using Marshall Apparatus	X	X		
ASTM D6927	Marshall Stability & Flow of Bituminous Mixtures	X	X		
AASHTO T329	Moisture Content of HMA by Oven			X	WAQTC
AASHTO R47, WAQTC TM-5	Reducing Samples of Hot Mix Asphalt			X	WAQTC
ID T-125	Test Strip				WAQTC

		A2LA	USACE	AASHTO	OTHER
UNIT MASONRY					
ASTM C67, AASHTO T32	Sampling and Testing of Brick and Structural Clay Tile (Compression)	X			
ASTM C109	Compressive Strength of Hydraulic Cement Mortars	X			
ASTM C140	Sampling and Testing Concrete Masonry Units (Compression, Moisture, Absorption)	X			
ASTM C780	Preconstruction and Construction Evaluation of Mortar (Making Test Specimens & Compression Testing)	X			
ASTM C1019	Sampling and Testing Grout	X			ITD
ASTM C1314	Compressive Strength of Masonry Prisms				

		A2LA	USACE	AASHTO	OTHER
STEEL - FIELD INSPECTION					
AISC	Field Bolt-Torque Inspection	X			
AWS, ASME	Field Visual Welding Inspection	X			
AWS, ASME	Erection Visual Inspection	X			

		A2LA	USACE	AASHTO	OTHER
STEEL - SHOP INSPECTION					
AWS, ASME, AISC	Fabrication	X			
AWS, ASME	Welding, Visual	X			

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		A2LA A2LA	USACE USACE	AASHTO AASHTO	OTHER OTHER
FIREPROOFING					
ASTM E736	Adhesion/Cohesion of SFRM	X			
ASTM E605	Thickness and Density of SFRM	X			