

SCOPE OF ACCREDITATION TO ISO/IEC 17043:2010

AASHTO re:source 4441 Buckeystown Pike, Suite A Frederick, MD 21704 Tracy Barnhart tbarnhart@aashtoresource.org

PROFICIENCY TESTING PROVIDER

Valid To: March 31, 2025 Certificate Number: 4159.01

In recognition of the successful completion of the A2LA evaluation process, this proficiency testing provider has been found to meet ISO/IEC 17043:2010, "Conformity assessment-General Requirements for Proficiency Testing". Accreditation is granted to this provider to provide proficiency testing samples in the following programs:

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PT Scheme ¹	Measurands or Properties/Characteristics Tested	Test Method Titles/Type of PT Item(s)
Soil Classification and Compaction	 Total material passing the 2.00-mm (No. 10) sieve Total material passing the 0.425-mm (No. 40) sieve Total material passing the 0.075-mm (No. 200) sieve Total material smaller than 0.02 mm Total material smaller than 0.002 mm Total material smaller than 0.001 mm Liquid limit 	AASHTO T 88 Standard Method of Test for Particle Size Analysis of Soils ASTM D422 Standard Test Method for Particle-Size Analysis
	•	Test for Determining the Liquid Limit of Soils ASTM D4318 Standard Test Methods for Liquid Limit, Plastic Limit, and Plasticity Index of Soils
	1. Plastic limit	AASHTO T 90 Standard Method of Test for Determining the Plastic Limit and Plasticity Index of Soils ASTM D4318 Standard Test Methods for Liquid Limit, Plastic Limit, and Plasticity Index of Soils
	Shrinkage limit (Water Submersion Method)	ASTM D4943 Standard Test Method for Shrinkage Factors of Cohesive Soils by the Water Submersion Method
	 Optimum moisture content (Standard) Maximum dry density (Standard) 	AASHTO T 99 Standard Method of Test for Moisture-Density Relations of Soils Using a 2.5-kg (5.5-lb) Rammer and a 305-mm (12-in.) Drop
		ASTM D698 Standard Test Methods

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PT Scheme ¹	Measurands or Properties/Characteristics Tested	Test Method Titles/Type of PT Item(s)
Soil Classification and Compaction (cont)		for Laboratory Compaction Characteristics of Soil Using Standard Effort (12 400 ft-lbf/ft3 (600 kN-m/m3))
	1. Specific gravity, passing 2.00 mm (No. 10), TX / 20°C	AASHTO T 100 Standard Method of Test for Specific Gravity of Soils ASTM D854 Standard Test Methods
		for Specific Gravity of Soil Solids by Water Pycnometer
	 Optimum moisture content (Modified) Maximum dry density (Modified) 	AASHTO T 180 Standard Method of Test for Moisture-Density Relations of Soils Using a 4.54-kg (10-lb) Rammer and a 457-mm (18-in.) Drop
		ASTM D1557 Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Modified Effort (56,000 ft-lbf/ft3 (2,700 kN- m/m3))
	 Particle diameter (D) at 4 minutes of sedimentation Particle diameter (D) at 30 minutes of sedimentation Particle diameter (D) at 60 minutes of sedimentation 	ASTM D7928 Standard Test Method for Particle-Size Distribution (Gradation) of Fine-Grained Soils Using the Sedimentation (Hydrometer) Analysis
	 4. Particle diameter (D) at 240 minutes of sedimentation 5. Particle diameter (D) at 1440 minutes of sedimentation 6. Total percent finer (Nm) at 4 minutes of 	
	sedimentation 7. Total percent finer (Nm) at 30 minutes of sedimentation 8. Total percent finer (Nm) at 60 minutes of sedimentation	
	9. Total percent finer (Nm) at 240 minutes of sedimentation10. Total percent finer (Nm) at 1440 minutes of sedimentation	
Soil Resistance R-Value	 Water (Moisture) content as received R-Value at 300 psi (2068 kPa) exudation pressure 	AASHTO T 190 Standard Method of Test for Resistance R-Value and Expansion Pressure of Compacted Soils
		ASTM D2844 Standard Test Method for Resistance R-Value and Expansion Pressure of Compacted Soils



PT Scheme ¹	Measurands or Properties/Characteristics Tested	Test Method Titles/Type of PT Item(s)
California Bearing Ratio (CBR)	Water (Moisture) content as Received Water content immediately Before Compaction	AASHTO T 193 Standard Method of Test for The California Bearing Ratio
	3. Water content of unused material immediately after compaction4. Dry unit weight of compacted specimen before	ASTM D1883 Standard Test Method for California Bearing Ratio (CBR) of Laboratory-Compacted Soils
	soaking5. Swell - percentage of initial specimen height6. CBR (corrected) at 0.1 in. penetration	
	7. CBR (corrected) at 0.2 in. penetration	
Coarse Aggregate	1. Percentage finer than the 75-μm sieve by washing	AASHTO T 11 Standard Method of Test for Materials Finer Than 75-µm (No. 200) Sieve in Mineral Aggregates by Washing
		ASTM C117 Standard Test Method for Materials Finer than 75-µm (No. 200) Sieve in Mineral Aggregates by Washing
	1. Total material passing the 25.0-mm (1-in.) sieve	AASHTO T 27 Standard Method of Test for Sieve Analysis of Fine and
	2. Total material passing the 19.0-mm (3/4-in.) sieve	Coarse Aggregates
	3. Total material passing the 12.5-mm (1/2-in.) sieve	ASTM C136 Standard Test Method for Sieve Analysis of Fine and Coarse
	 4. Total material passing the 9.5-mm (3/8-in.) sieve 5. Total material passing the 4.75-mm (No. 4) 	Aggregates
	sieve	
	 Bulk specific gravity [or relative density, OD for C127] Bulk specific gravity, SSD [or relative density, 	AASHTO T 85 Standard Method of Test for Specific Gravity and Absorption of Coarse Aggregate
	SSD for C127] 3. Apparent specific gravity [or apparent relative	ASTM C127 Standard Test Method for
	density for C127] 4. Absorption	Relative Density (Specific Gravity) and Absorption of Coarse Aggregate
	Percentage of loss by abrasion and impact	AASHTO T 96 Standard Method of Test for Resistance to Degradation of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine
		ASTM C131 Standard Test Method for Resistance to Degradation of Small-
		Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine
	Sodium sulfate-percentage of 19.0 to 9.5-mm fraction passing 8.0-mm sieve	AASHTO T 104 Standard Method of Test for Soundness of Aggregate by
	2. Sodium sulfate-percentage of 9.5 to 4.75-mm fraction passing 4.0-mm sieve	Use of Sodium Sulfate or Magnesium Sulfate



PT Scheme ¹	Measurands or Properties/Characteristics Tested	Test Method Titles/Type of PT Item(s)
Coarse Aggregate (cont)	 Magnesium sulfate-percentage of 19.0 to 9.5-mm fraction passing 8.0-mm sieve Magnesium sulfate-percentage of 9.5 to 4.75-mm fraction passing 4.0-mm sieve Percentage of loss in the Micro-Deval 	ASTM C 88 Standard Test Method for Soundness of Aggregates by Use of Sodium Sulfate or Magnesium Sulfate AASHTO T 327 Standard Method of Test for Resistance of Coarse Aggregate to Degradation by Abrasion in the Micro-Deval Apparatus ASTM D6928 Standard Test Method for Resistance of Coarse Aggregate to Degradation by Abrasion in the Micro-Deval Apparatus
Fine Aggregate	 Total oven dry mass of specimen before washing Percentage finer than the 75-μm sieve by washing 	AASHTO T 11 Standard Method of Test for Materials Finer Than 75-µm (No. 200) Sieve in Mineral Aggregates by Washing ASTM C117 Standard Test Method for Materials Finer than 75-µm (No. 200) Sieve in Mineral Aggregates by Washing
	 Total material passing the 4.75-mm (No. 4) sieve Total material passing the 2.36-mm (No. 8) sieve Total material passing the 1.18-mm (No. 16) sieve Total material passing the 600-μm (No. 30) sieve Total material passing the 300-μm (No. 50) sieve Total material passing the 150-μm (No. 100) sieve Total material passing the 75-μm (No. 200) sieve 	AASHTO T 27 Standard Method of Test for Sieve Analysis of Fine and Coarse Aggregates ASTM C136 Standard Test Method for Sieve Analysis of Fine and Coarse Aggregates
	 Bulk specific gravity [or relative density, oven dry for C128] Bulk specific gravity, SSD [or relative density, SSD for C128] Apparent specific gravity [or apparent relative density for C128] Absorption Material finer than the 1.18-mm sieve, Na Material finer than the 600-μm sieve, Na Material finer than the 1.18-mm sieve, Na Material finer than the 1.18-mm sieve, Na Material finer than the 1.18-mm sieve, Mg Material finer than the 600-μm sieve, Mg Material finer than the 300-μm sieve, Mg Material finer than the 300-μm sieve, Mg 	AASHTO T 84 Standard Method of Test for Specific Gravity and Absorption of Fine Aggregate ASTM C128 Standard Test Method for Relative Density (Specific Gravity) and Absorption of Fine Aggregate AASHTO T 104 Standard Method of Test for Soundness of Aggregate by Use of Sodium Sulfate or Magnesium Sulfate ASTM C88 Standard Test Method for Soundness of Aggregates by Use of



PT Scheme ¹	Measurands or Properties/Characteristics Tested	Test Method Titles/Type of PT Item(s)
Fine Aggregate (cont)	Sand equivalent value	Sodium Sulfate or Magnesium Sulfate AASHTO T 176 Standard Method of Test for Plastic Fines in Graded
		Aggregates and Soils by Use of the Sand Equivalent Test ASTM D2419 Standard Test Method
		for Sand Equivalent Value of Soils and Fine Aggregate
	1. Uncompacted voids, test run # 1	AASHTO T 304 Standard Method of
	2. Uncompacted voids, test run # 23. Uncompacted voids, average of two runs	Test for Uncompacted Void Content of Fine Aggregate
		ASTM C1252 Standard Test Methods for Uncompacted Void Content of Fine
		Aggregate (as Influenced by Particle Shape, Surface Texture, and Grading)
	1. Micro-Deval abrasion loss	ASTM D7428 Standard Test Method
		for Resistance of Fine Aggregate to Degradation by Abrasion in the Micro-
		Deval Apparatus
Viscosity Graded Asphalt Cement	1. Corrected flash point	AASHTO T 48 Standard Method of Test for Flash Point of Asphalt Binder
Cement		by Cleveland Open Cup
		ASTM D92 Standard Test Method for
		Flash and Fire Points by Cleveland Open Cup Tester
	1. Penetration of original sample at 25 °C, 100 g,	AASHTO T 49 Standard Method of
	5 s 2. Penetration of original sample at 4 °C, 200 g,	Test for Penetration of Bituminous Materials
	60 s	Waterials
		ASTM D5 Standard Test Method for Penetration of Bituminous Materials
	1. Kinematic viscosity of original asphalt at 135 °C	AASHTO T 201 Standard Method of
		Test for Kinematic Viscosity of Asphalts (Bitumens)
		ASTM D2170 Standard Test Method for Kinematic Viscosity of Asphalts
	1. Viscosity of original asphalt at 60 °C	AASHTO T 202 Standard Method of Test for Viscosity of Asphalts by
		Vacuum Capillary Viscometer
		ASTM D2171 Standard Test Method
		for Viscosity of Asphalts by Vacuum Capillary Viscometer
	1. Specific gravity (relative density) at 25/25 °C	AASHTO T 228 Standard Method of Test for Specific Gravity of Semi-Solid
		Asphalt Materials



PT Scheme ¹	Measurands or Properties/Characteristics Tested	Test Method Titles/Type of PT Item(s)
Viscosity Graded Asphalt Cement (cont)		ASTM D70 Standard Test Method for Density of Semi-Solid Asphalt Binder (Pycnometer Method)
	1. Change in mass	AASHTO T 240 Standard Method of Test for Effect of Heat and Air on a Moving Film of Asphalt Binder (Rolling Thin-Film Oven Test) ASTM D2872 Standard Test Method for Effect of Heat and Air on a Moving Film of Asphalt (Rolling Thin-Film Oven Test)
Viscosity Graded Asphalt Cement - Tests on Rolling Thin Film Oven (RTFO) Residue	 Penetration of RTFO residue at 25 °C, 100 g, 5 s Penetration of RTFO residue at 4 °C, 200 g, 60 s 	AASHTO T 49 Standard Method of Test for Penetration of Bituminous Materials
	Kinematic viscosity of RTFO residue at 135 °C	ASTM D5 Standard Test Method for Penetration of Bituminous Materials AASHTO T 201 Standard Method of Test for Kinematic Viscosity of Asphalts (Bitumens)
	1. Viscosity of RTFO residue at 60 °C	ASTM D2170 Standard Test Method for Kinematic Viscosity of Asphalts AASHTO T 202 Standard Method of Test for Viscosity of Asphalts by Vacuum Capillary Viscometer
Performance Graded	Corrected flash point	ASTM D2171 Standard Test Method for Viscosity of Asphalts by Vacuum Capillary Viscometer AASHTO T 48 Standard Method of
Asphalt Binder – Tests on Original Binder	-	Test for Flash Point of Asphalt Binder by Cleveland Open Cup ASTM D92 Standard Test Method for Flash and Fire Points by Cleveland Open Cup Tester
	1. Specific gravity (relative density) at 25/25 °C	AASHTO T 228 Standard Method of Test for Specific Gravity of Semi-Solid Asphalt Materials ASTM D70 Standard Test Method for Density of Semi-Solid Asphalt Binder (Pycnometer Method)
	Average percent elongation recovery	AASHTO T 301 Standard Method of Test for Elastic Recovery Test of Asphalt Materials by Means of a Ductilometer



PT Scheme ¹	Measurands or Properties/Characteristics Tested	Test Method Titles/Type of PT Item(s)
Performance Graded Asphalt Binder – Tests on Original Binder (cont)		ASTM D6084 Standard Test Method for Elastic Recovery of Asphalt Materials by Ductilometer
	 Complex shear modulus, G* Phase angle, ŏ G* / sin ŏ (Original) 	AASHTO T 315 Standard Method of Test for Determining the Rheological Properties of Asphalt Binder Using a Dynamic Shear Rheometer (DSR)
		ASTM D7175 Standard Test Method for Determining the Rheological Properties of Asphalt Binder Using a Dynamic Shear Rheometer
	1. Rotational viscosity at 135 °C	AASHTO T 316 Standard Method of Test for Viscosity Determination of Asphalt Binder Using Rotational Viscometer
		ASTM D4402 Standard Test Method for Viscosity Determination of Asphalt at Elevated Temperatures Using a Rotational Viscometer
	1. Ash content of the residue	ASTM D8078 Standard Test Method for Ash Content of Asphalt and Emulsified Asphalt Residues
Performance Graded Asphalt Binder - Tests on Rolling Thin Film Oven (RTFO) Material	1. Change in mass	AASHTO T 240 Standard Method of Test for Effect of Heat and Air on a Moving Film of Asphalt Binder (Rolling Thin-Film Oven Test)
		ASTM D2872 Standard Test Method for Effect of Heat and Air on a Moving Film of Asphalt (Rolling Thin-Film Oven Test)
	 Complex shear modulus, G* Phase angle, ð G* / sin ð (Original) 	AASHTO T 315 Standard Method of Test for Determining the Rheological Properties of Asphalt Binder Using a Dynamic Shear Rheometer (DSR)
		ASTM D7175 Standard Test Method for Determining the Rheological Properties of Asphalt Binder Using a Dynamic Shear Rheometer
	 Average percent recovery at 0.1 kPa, R0.1 Average percent recovery at 3.2 kPa, R3.2 Percent difference in recovery between 0.1 and 3.2 kPa, Rdiff 	AASHTO T 350 Standard Method of Test for Multiple Stress Creep Recovery (MSCR) Test of Asphalt Binder Using a Dynamic Shear
	 4. Non-recoverable creep compliance at 0.1 kPa, Jnr0.1 5. Non-recoverable creep compliance at 3.2 kPa, 	Rheometer (DSR) ASTM D7405 Standard Test Method



PT Scheme ¹	Measurands or Properties/Characteristics <u>Tested</u>	Test Method Titles/Type of PT Item(s)
	Jnr3.2 6. Percent difference of non-recoverable creep compliance, Jnr-diff	for Multiple Stress Creep and Recovery (MSCR) of Asphalt Binder Using a Dynamic Shear Rheometer
Performance Graded	Not Applicable – the referenced standards under	Sample Conditioning
Asphalt Binder - Tests on	'Test Method Titles/Type of PT Item(s)' column	Procedures/Methods:
Pressurized Aging Vessel (PAV) Residue	are sample conditioning procedures/methods which support the testing for the applicable PT scheme. Therefore, there is no measurand or characteristic to be identified.	AASHTO R 28 Standard Practice for Accelerated Aging of Asphalt Binder Using a Pressurized Aging Vessel (PAV)
		ASTM D6521 Standard Practice for Accelerated Aging of Asphalt Binder Using a Pressurized Aging Vessel (PAV)
	 Estimated stiffness (Average) Estimated slope, m-value (Average) 	AASHTO T 313 Standard Method of Test for Determining the Flexural Creep Stiffness of Asphalt Binder Using the Bending Beam Rheometer (BBR)
		ASTM D6648 Standard Test Method for Determining the Flexural Creep Stiffness of Asphalt Binder Using the Bending Beam Rheometer (BBR)
	 Complex shear modulus, G* Phase angle, ð G* / sin ð (Original) 	AASHTO T 315 Standard Method of Test for Determining the Rheological Properties of Asphalt Binder Using a Dynamic Shear Rheometer (DSR)
		ASTM D7175 Standard Test Method for Determining the Rheological Properties of Asphalt Binder Using a Dynamic Shear Rheometer
Slurry and Micro Systems	Water (moisture) content as received	AASHTO T 255 Standard Method of Test for Total Evaporable Moisture Content of Aggregate by Drying
		ASTM C566 Standard Test Method for Total Evaporable Moisture Content of Aggregate by Drying
	1. Loss corrected to C-100 mixer	ISSA TB-100 Test Method for Wet Track Abrasion of Slurry Surfacing Systems
		ASTM D3910 Standard Practices for Design, Testing, and Construction of Slurry Seal
		ASTM D6372 Standard Practice for



PT Scheme ¹	Measurands or Properties/Characteristics Tested	Test Method Titles/Type of PT Item(s)
Slurry and Micro Systems (cont)	Cycle number where "audible tackiness" is determined Mass of adhered sand	Design, Testing, and Construction of Microsurfacing ISSA TB-109 Test Method for Measurement of Excess Asphalt In Bituminous Mixtures by Use of a Loaded Wheel Tester and Sand
	 Time to "break" Time to clear water set Torque value at time 30 minutes 	Adhesion ISSA TB-113 Test Method for Determining Mix Time for Slurry Surfacing Systems ISSA TB-139 Test Method to
	 Torque value at time 60 minutes Torque value at time 90 minutes Torque value at time 120 minutes Torque value at time 30 minutes 	Determine Set and Cure Development of Slurry Surfacing Systems by Cohesion Tester ASTM D3910 Standard Practices for
		Design, Testing, and Construction of Slurry Seal ASTM D6372 Standard Practice for Design, Testing, and Construction of Microsurfacing
	 Percent vertical displacement as percent of original thickness Percent lateral displacement as percent increase of width 	ISSA TB-147 Test Method for Measurement of Stability and Resistance to Compaction, Vertical and Lateral Displacement of Multilayered Fine Aggregate Cold Mixes ASTM D6372 Standard Practice for
Emulsified Asphalt	Saybolt furol viscosity	Design, Testing, and Construction of Microsurfacing AASHTO T 59 Standard Method of Test for Emulsified Asphalts
		ASTM D7496 Standard Test Method for Viscosity of Emulsified Asphalt by Saybolt Furol Viscometer
	1. Apparent viscosity at 50°C	AASHTO T 382 Standard Method of Test for Determining the Viscosity of Emulsified Asphalt by a Rotational Paddle Viscometer
		ASTM D7226 Standard Test Method for Determining the Viscosity of Emulsified Asphalts Using a Rotational Paddle Viscometer
Emulsified Asphalt – Tests on Residue by Distillation	Percent solubility of the residue	AASHTO T 44 Standard Method of Test for Solubility of Bituminous Materials



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PT Scheme ¹	Measurands or Properties/Characteristics <u>Tested</u>	Test Method Titles/Type of PT Item(s)
Emulsified Asphalt – Tests on Residue by Distillation (cont)		ASTM D2042 Standard Test Method for Solubility of Asphalt Materials in Trichloroethylene
	1. Penetration of the residue @ 25 °C (Distillation)	AASHTO T 49 Standard Method of Test for Penetration of Bituminous Materials
		ASTM D5 Standard Test Method for Penetration of Bituminous Materials
	 Percent residue Percent oil distillate by volume of emulsion 	AASHTO T 59 Standard Method of Test for Emulsified Asphalts
Emploified Ambelt	Percent Solubility of the Residue (Distillation)	ASTM D6997 Standard Test Method for Distillation of Emulsified Asphalt AASHTO T 44 Standard Method of
Emulsified Asphalt – Tests on Residue by Evaporation	1. Telcent Solubility of the Residue (Distillation)	Test for Solubility of Bituminous Materials
		ASTM D2042 Standard Test Method for Solubility of Asphalt Materials in Trichloroethylene
	1. Penetration of the Residue @ 25 °C (Distillation)	AASHTO T 49 Standard Method of Test for Penetration of Bituminous Materials
		ASTM D5 Standard Test Method for Penetration of Bituminous Materials
	Percent Residue - average of beakers	AASHTO T 59 Standard Method of Test for Emulsified Asphalts
		ASTM D6934 Standard Test Method for Residue by Evaporation of Emulsified Asphalt
	1. Ash Content of the Residue	ASTM D8078 Standard Test Method for Ash Content of Asphalt and Emulsified Asphalt Residues
Asphalt Mixture Solvent Extraction	 Sample mass, assume moisture free Percent asphalt 	AASHTO T 164 Standard Method of Test for Quantitative Extraction of Asphalt Binder from Hot Mix Asphalt (HMA)
		ASTM D2172 Standard Test Methods for Quantitative Extraction of Asphalt Binder from Asphalt Mixtures
		AASHTO T 319 Standard Method of Test for Quantitative Extraction and Recovery of Asphalt Binder from Asphalt Mixtures



PT Scheme ¹	Measurands or Properties/Characteristics Tested	Test Method Titles/Type of PT Item(s)
Asphalt Mixture Solvent Extraction (cont)		ASTM D8159 Standard Test Method for Automated Extraction of Asphalt Binder from Asphalt Mixtures
	 Mass removed by washing over 75-μm (No. 200) sieve Total material passing the 12.5-mm (1/2 in.) sieve Total material passing the 9.5-mm (3/8 in.) sieve Total material passing the 4.75-mm (No. 4) 	AASHTO T 30 Standard Method of Test for Mechanical Analysis of Extracted Aggregate ASTM D5444 Standard Test Method for Mechanical Size Analysis of Extracted Aggregate
	 sieve Total material passing the 2.36-mm (No. 8) sieve Total material passing the 1.18-mm (No. 16) sieve Total material passing the 600-μm (No. 30) sieve Total material passing the 300-μm (No. 50) sieve Total material passing the 150-μm (No. 100) sieve Total material passing the 75-μm (No. 200) 	
Asphalt Mixture Solvent Extraction - Recovery and Testing of Asphalt Residue	Not Applicable – the referenced standards under 'Test Method Titles/Type of PT Item(s)' column are sample conditioning procedures/methods which support the testing for the applicable PT scheme. Therefore, there is no measurand or characteristic to be identified.	Sample Conditioning Procedures/Methods: AASHTO R 59 Standard Practice for Recovery of Asphalt Binder from Solution by Abson Method ASTM D1856 Standard Test Method for Recovery of Asphalt From Solution by Abson Method
	Not Applicable – the referenced standards under 'Test Method Titles/Type of PT Item(s)' column are sample conditioning procedures/methods which support the testing for the applicable PT scheme. Therefore, there is no measurand or characteristic to be identified.	Sample Conditioning Procedures/Methods: AASHTO T 319 Standard Method of Test for Quantitative Extraction and Recovery of Asphalt Binder from Asphalt Mixtures ASTM D5404 Standard Practice for Recovery of Asphalt from Solution
	1. Penetration of the residue @ 25°C, 100 g, 5 s (Abson)	Using the Rotary Evaporator AASHTO T 49 Standard Method of Test for Penetration of Bituminous Materials ASTM D5 Standard Test Method for Penetration of Bituminous Materials



PT Scheme ¹	Measurands or Properties/Characteristics Tested	Test Method Titles/Type of PT Item(s)
Asphalt Mixture Solvent Extraction - Recovery and Testing of Asphalt Residue (cont)	Kinematic viscosity of residue at 135°C (Abson)	AASHTO T 201 Standard Method of Test for Kinematic Viscosity of Asphalts (Bitumens) ASTM D2170 Standard Test Method
	1. Viscosity of residue at 60°C (Abson)	for Kinematic Viscosity of Asphalts AASHTO T 202 Standard Method of Test for Viscosity of Asphalts by Vacuum Capillary Viscometer
		ASTM D2171 Standard Test Method for Viscosity of Asphalts by Vacuum Capillary Viscometer
	1. G* / sin ð tested as original binder (Abson)	AASHTO T 315 Standard Method of Test for Determining the Rheological Properties of Asphalt Binder Using a Dynamic Shear Rheometer (DSR) ASTM D7175 Standard Test Method for Determining the Rheological Properties of Asphalt Binder Using a
	1. Penetration of the residue @ 25°C, 100 g, 5 s (Rotavapor)	Dynamic Shear Rheometer AASHTO T 49 Standard Method of Test for Penetration of Bituminous Materials
		ASTM D5 Standard Test Method for Penetration of Bituminous Materials
	1. Kinematic Viscosity of Residue at 135°C (Rotavapor)	AASHTO T 201 Standard Method of Test for Kinematic Viscosity of Asphalts (Bitumens)
	1. Viscosity of Residue at 60°C (Rotavapor)	ASTM D2170 Standard Test Method for Kinematic Viscosity of Asphalts AASHTO T 202 Standard Method of Test for Viscosity of Asphalts by
		Vacuum Capillary Viscometer ASTM D2171 Standard Test Method for Viscosity of Asphalts by Vacuum Capillary Viscometer
	1. G* / sin ð tested as original binder (Rotavapor)	AASHTO T 315 Standard Method of Test for Determining the Rheological Properties of Asphalt Binder Using a Dynamic Shear Rheometer (DSR)
		ASTM D7175 Standard Test Method for Determining the Rheological Properties of Asphalt Binder Using a Dynamic Shear Rheometer



PT Scheme ¹	Measurands or Properties/Characteristics Tested	Test Method Titles/Type of PT Item(s)
Asphalt Mixture Gyratory	Specific gravity of mineral filler	AASHTO T 100 Standard Method of Test for Specific Gravity of Soils
	1. Maximum specific gravity	AASHTO T 166 Standard Method of Test for Bulk Specific Gravity (Gmb) of Compacted Hot Mix Asphalt (HMA) Using Saturated Surface-Dry Specimens
		ASTM D2726 Standard Test Method for Bulk Specific Gravity and Density of Non-Absorptive Compacted Asphalt Mixtures
	Bulk specific gravity (Saturated Surface-Dry Method)	AASHTO T 209 Standard Method of Test for Theoretical Maximum Specific Gravity (Gmm) and Density of Asphalt Mixtures
		ASTM D2041 Standard Test Method for Theoretical Maximum Specific Gravity and Density of Asphalt Mixtures
	 Height during compaction after 8 gyrations Height during compaction after 100 gyrations Percent of maximum specific gravity after 8 gyrations Percent of maximum specific gravity after 100 gyrations 	AASHTO T 312 Standard Method of Test for Preparing and Determining the Density of Asphalt Mixture Specimens by Means of the Superpave Gyratory Compactor
		ASTM D6925 Standard Test Method for Preparation and Determination of the Relative Density of Asphalt Mix Specimens by Means of the Superpave Gyratory Compactor
	Bulk specific gravity (Vacuum Sealing Method)	AASHTO T 331 Standard Method of Test for Bulk Specific Gravity (Gmb) and Density of Compacted Hot Mix Asphalt (HMA) Using Automatic Vacuum Sealing Method
		ASTM D6752 Standard Test Method for Bulk Specific Gravity and Density of Compacted Asphalt Mixtures Using Automatic Vacuum Sealing Method
Asphalt Mixture Marshall Design	Average bulk specific gravity	AASHTO T 166 Standard Method of Test for Bulk Specific Gravity (Gmb) of Compacted Hot Mix Asphalt (HMA) Using Saturated Surface-Dry Specimens
		ASTM D2726 Standard Test Method for Bulk Specific Gravity and Density



PT Scheme ¹	Measurands or Properties/Characteristics Tested	Test Method Titles/Type of PT Item(s)
Asphalt Mixture Marshall Design (cont)		of Non-Absorptive Compacted Asphalt Mixtures
	Maximum specific gravity	AASHTO T 209 Standard Method of Test for Theoretical Maximum Specific Gravity (Gmm) and Density of Asphalt Mixtures
		ASTM D2041 Standard Test Method for Theoretical Maximum Specific Gravity and Density of Asphalt Mixtures
	1. Average Marshall stability	AASHTO T 245 Standard Method of Test for Resistance to Plastic Flow of Asphalt Mixtures Using Marshall Apparatus
	1 Assessed Manchell Class	ASTM D6926 Standard Practice for Preparation of Asphalt Mixture Specimens Using Marshall Apparatus AASHTO T 245 Standard Method of
	1. Average Marshall flow	Test for Resistance to Plastic Flow of Asphalt Mixtures Using Marshall Apparatus
		ASTM D6927 Standard Test Method for Marshall Stability and Flow of Asphalt Mixtures
	1. Percent air voids	AASHTO T 269 Standard Method of Test for Percent Air Voids in Compacted Dense and Open Asphalt Mixtures
		ASTM D3203 Standard Test Method for Percent Air Voids in Compacted Asphalt Mixtures
	Bulk specific gravity (Vacuum Sealing Method)	AASHTO T 331 Standard Method of Test for Bulk Specific Gravity (Gmb) and Density of Compacted Hot Mix Asphalt (HMA) Using Automatic Vacuum Sealing Method
		ASTM D6752 Standard Test Method for Bulk Specific Gravity and Density of Compacted Asphalt Mixtures Using Automatic Vacuum Sealing Method
	1. Overall average specimen height	ASTM D3549 Standard Test Method for Thickness or Height of Compacted Asphalt Mixture Specimens



PT Scheme ¹	Measurands or Properties/Characteristics Tested	Test Method Titles/Type of PT Item(s)
Asphalt Mixture Hveem Design	1. Bulk specific gravity	AASHTO T 166 Standard Method of Test for Bulk Specific Gravity (Gmb) of Compacted Hot Mix Asphalt (HMA) Using Saturated Surface-Dry Specimens
		AASHTO T 331 Standard Method of Test for Bulk Specific Gravity (Gmb) and Density of Compacted Hot Mix Asphalt (HMA) Using Automatic Vacuum Sealing Method
		ASTM D2726 Standard Test Method for Bulk Specific Gravity and Density of Non-Absorptive Compacted Asphalt Mixtures
	1 Marines Santita	ASTM D6752 Standard Test Method for Bulk Specific Gravity and Density of Compacted Asphalt Mixtures Using Automatic Vacuum Sealing Method
	Maximum specific gravity	AASHTO T 209 Standard Method of Test for Theoretical Maximum Specific Gravity (Gmm) and Density of Asphalt Mixtures
		ASTM D2041 Standard Test Method for Theoretical Maximum Specific Gravity and Density of Asphalt Mixtures
	 Specimen height (nearest 0.01 in.) Stabilometer value uncorrected Stabilometer value corrected 	AASHTO T 246 Standard Method of Test for Resistance to Deformation and Cohesion of Hot Mix Asphalt (HMA) by Means of Hveem Apparatus
		AASHTO T 247 Standard Method of Test for Preparation of Test Specimens of Hot Mix Asphalt (HMA) by Means of California Kneading Compactor
		ASTM D1560 Standard Test Methods for Resistance to Deformation and Cohesion of Asphalt Mixtures by Means of Hveem Apparatus
		ASTM D1561 Standard Practice for Preparation of Bituminous Mixture Test Specimens by Means of California Kneading Compactor



PT Scheme ¹	Measurands or Properties/Characteristics Tested	Test Method Titles/Type of PT Item(s)
Asphalt Mixture Hveem Design (cont)		TEX 206-F Compacting Specimens Using the Texas Gyratory Compactor (TGC)
		TEX 208-F Test for Stabilometer Value of Bituminous Mixtures
		CP-L 5106 Resistance to Deformation of Bituminous Mixtures by Means of Hveem Apparatus
		CP-L 5115 Standard Method for Preparing and Determining the Density of Bituminous Mixture
	1. Percent air voids	AASHTO T 269 Standard Method of Test for Percent Air Voids in Compacted Dense and Open Asphalt Mixtures
		ASTM D3203 Standard Test Method for Percent Air Voids in Compacted Asphalt Mixtures
Asphalt Mixture Ignition Oven	 Initial (as received) mass of pre-mixed HMA sample Correction factor for asphalt binder content Corrected asphalt binder content 	AASHTO T 308 Standard Method of Test for Determining the Asphalt Binder Content of Asphalt Mixtures by the Ignition Method
		ASTM D6307 Standard Test Method for Asphalt Content of Asphalt Mixture by Ignition Method
	 Mass removed by washing over the 75-μm (No. 200) sieve Total material passing the 12.5-mm (1/2 in.) 	AASHTO T30 Standard Method of Test for Mechanical Analysis of Extracted Aggregate
	sieve 3. Total material passing the 9.5-mm (3/8 in.) sieve	ASTM D5444 Standard Test Method for Mechanical Size Analysis of
	 4. Total material passing the 4.75-mm (No. 4) sieve 5. Total material passing the 2.36-mm (No. 8) 	Extracted Aggregate
	sieve 6. Total material passing the 1.18-mm (No. 16)	
	sieve 7. Total material passing the 600-μm (No. 30) sieve	
	8. Total material passing the 300-μm (No. 50) sieve	
	 9. Total material passing the 150-μm (No. 100) sieve 10. Total material passing the 75-μm (No. 200) 	
	sieve	



PT Scheme ¹	Measurands or Properties/Characteristics Tested	Test Method Titles/Type of PT Item(s)
Paint	1. Load to produce 200 r/min	ASTM D562 Standard Test Method for
	2. Krebs unit viscosity at 25°C	Consistency of Paints Measuring Krebs
		Unit (KU) Viscosity Using a Stormer-
		Type Viscometer
	1. Drying time for No-Pick-Up - 15 mil film	ASTM D711 Standard Test Method for
		No-Pick-Up Time of Traffic Paint
	1. Density at 25°C	ASTM D1475 Standard Test Method
		for Density of Liquid Coatings, Inks,
		and Related Products
	1. Percent volatile matter	ASTM D2369 Standard Test Method
		for Volatile Content of Coatings
	1. Percent pigment	ASTM D3723 Standard Test Method
		for Pigment Content of Water-Emulsion
		Paints by Low-Temperature Ashing

¹Details on these schemes can be found at http://aashtoresource.org/psp/samples-types-and-tests.





Accredited Proficiency Testing Provider

A2LA has accredited

AASHTO RE:SOURCE

Frederick, MD

This accreditation covers the specific proficiency testing schemes listed on the agreed upon Scope of Accreditation.

This provider is accredited in accordance with the recognized International Standard ISO/IEC 17043: 2010

Conformity assessment - General requirements for proficiency testing. This accreditation demonstrates technical competence for a defined scope and the operation of a quality management system.



Presented this 20th day of January 2021.

Vice President, Accreditation Services For the Accreditation Council Certificate Number 4159.01 Valid to March 31, 2025