



How to use these tables:

The following tables show the standard test methods included in each AASHTO resource and CCRL proficiency sample. Each line item in the table includes a number that corresponds to an accreditation policy related to participation in the proficiency sample program for each standard test method. Each reference sample-specific policy is shown under each table.

A notation of a dash (-) means that the normal policies apply, and there are no additional sample-specific policies for that test method. A notation of n/a means that the rating is not used for accreditation purposes. The general policies related to proficiency testing are in the AASHTO Procedures Manual for the Accreditation of Construction Materials Testing Laboratories.

The following policies apply to all standard test methods and all samples:

- Laboratory accreditation is suspended when any combination of ratings of 0, 1, or -1 and no results occur on samples for a test property (line item on a proficiency sample report) on consecutive sample rounds.
- Laboratory accreditation is not suspended for low ratings or no data on single operator precision results.
- If the standard test method is included in more than one proficiency sample, laboratory participation will be evaluated separately for each proficiency sample (ex. low ratings/no results on AASHTO T30 on Hot-Mix Solvent samples and satisfactory ratings on AASHTO T30 on Hot-Mix Ignition samples will still result in a T30 suspension due to the low ratings on the Hot-Mix Solvent samples.) If there is an exception to this rule, it will be noted in the sample-specific policies (see VGA rule 1 for example).

The following pages describe the proficiency sample-specific policies.



Viscosity Graded Asphalt Cement (VGA)

AASHTO	ASTM	Test Name	Policy
T48	D92	Cleveland Flash	1
T49	D5	Penetration	2, 3, 5
T201	D2170	Kinematic Viscosity	2, 3, 4
T202	D2172	Absolute Viscosity	2, 3
T228	D70	Specific Gravity	1
T240	D2872	Rolling Thin-Film Oven	1

- 1 Participation may be in either PGB or VGA for these tests. If no data is submitted, there will not be a suspension unless it is the only sample type that allows the laboratory to perform the test included in their accreditation.
- 2 For tests on material following RTFO, even though these tests may be an indicator of the effectiveness of the RTFO-conditioning, the accreditation for individual tests in which low ratings are received will be suspended rather than T240/D2872.
- 3 These tests are required to be performed on VGA samples unless the laboratory only performs the test on recovered asphalt residue and performs the test on the EML or HMS samples.
- 4 If “(cut-back asphalt only)” is listed on a laboratory’s accreditation for T201/D2170, participation in the proficiency sample program is not required for this test.
- 5 Penetration of samples at 4°C, 200g, 60s will not be evaluated for accreditation purposes.



Performance Graded Asphalt Binder (PGB)

AASHTO	ASTM	Test Name	Policy
R28	D6521	Pressurized Aging Vessel	1
T48	D92	Cleveland Flash	2
T228	D70	Specific Gravity	2
T240	D2872	Rolling Thin-Film Oven	2
T301	D6084	Elastic Recovery	3
T313	D6648	Bending Beam Rheometer (BBR)	-
T314	D6723	Direct Tension (DT)	-
T315	D7175	Dynamic Shear Rheometer (DSR)	4
T316	D4402	Rotational Viscosity (Brookfield)	-
T350	D7405	Multiple Stress Creep and Recovery (MSCR)	5
	D8078	Ash Content	-

- 1** This is a standard practice only, but it is required to be performed when performing T313/D6648, T314/D6723, T315/D7175, or T315/D7175 (PAV-aged). Accreditation for this standard practice will only be suspended if no data is submitted for T313/D6648, T314/D6723, T315/D7175, or T315/D7175 (PAV-aged).
- 2** Participation may be in either PGB or VGA for these tests. If no data is submitted, there will not be a suspension unless it is the only sample type that allows the laboratory to perform the test included in their accreditation.
- 3** This will only be evaluated in the fall rounds. The fall rounds always include a modified binder.
- 4a** T315/D7175 will be suspended if low ratings/no data occur when testing the original, PAV-aged, or RTFO-conditioned samples.
- 4b** If a laboratory chooses to limit their accreditation to unaged binder, RTFO-aged binder, or PAV-aged binder, the accreditation listings and suspensions will be split using the following terms: T315/D7175 (Original), T315/D7175 (RTFO-aged), and T315/D7175 (PAV-aged). Performance will be evaluated separately for each component.
- 4c** Laboratory accreditation is not suspended for low ratings or no data on Phase angle (δ) results.
- 4d** This test is required to be performed on PGB samples unless the laboratory only performs the test on recovered asphalt residue and performs the test on HMS samples.
- 5** Laboratory accreditation is not suspended for low ratings or no data on Percent Difference in Recovery between 0.1 and 3.2 kPa and Percent Difference of Non-recoverable Creep Compliance, or Jnr-diff results. “Rdiff” and “Jnr-diff” are calculated from test data that may not lie within a reasonable deviation about the consensus values for the Average Percent Recovery and Non-Recoverable Creep Compliance at 0.1 and 3.2 kPa, respectively.



Emulsified Asphalt (EML)

AASHTO	ASTM	Test name	Policy
T59	D7496-D88	Saybolt Viscosity (25°C)	1
T59	D7496-D88	Saybolt Viscosity (50°C)	1
T382	D7226	Paddle Viscometer	-
T59	D6997	Residue by Distillation	2
T59	D6934	Residue by Evaporation	-

Tests on Recovered Residue

T44	D2042	Solubility	3
T49	D5	Penetration	4
	D8078	Ash Content	5

1 Saybolt Viscosity (T59/D7496) only needs to be performed if the sample round requires testing at the specified temperature that is included in the laboratory accreditation. For example, if the lab is only accredited for testing at 25°C, the laboratory is only required to perform the test on the emulsion proficiency sample if the sample is required to be tested at 25°C.

2 Laboratory accreditation is not suspended for low ratings or no data on Percent Oil results.

3 Laboratory accreditation is not suspended for low ratings or no data on T44/D2042 results.

4a Even though this test may be an indicator of the effectiveness of the distillation or evaporation technique, the individual tests in which low ratings are received will be suspended rather than the distillation or evaporation practices.

4b If the laboratory is not accredited for the distillation or evaporation, the results of the test on residue will not be evaluated that follow that process.

4c If the laboratory performs this test on the VGA or HMS sample, results are not required to be submitted on this sample.

5a Accreditation policies will only be enforced on the PGB samples for this test.

5b Even though data for D8078 may be submitted in the EML sample, a laboratory is required to be enrolled and submit data in PGB to maintain accreditation for D8078.



Slurry and Micro Systems (SMS)

ISSA	ASTM	Test Name	Policy
TB-100	D3910 and D6372	Wet Track Abrasion	1
	D3910	Set Time	1
TB-109		Measurement of Excess Asphalt by Loaded Wheel Tester and Sand Adhesion	1
TB-113		Trial Mix Procedure of Slurry Design	1
TB-139	D3910 and D6372	Set and Cure Development by Cohesion Tester	1
TB-147	D6372	Measurement of Vertical and Lateral Displacement by Loaded Wheel Tester	1

1 Proficiency sample rounds 9 and 10 are the first rounds that will be used for AASHTO Accreditation purposes.



Hot Mix Asphalt Solvent Extraction (HMS)

AASHTO	ASTM	Test Name	Policy
T164	D2172	AC Content by Extraction	1
	D8159	Automated Extraction	1
T30	D5444	Gradation of Extracted Aggregate	2
R59	D1856	Abson Recovery	n/a
	D5404	Rotovapor Recovery	n/a

Tests on Recovered Residue

AASHTO	ASTM	Test Name	Policy
T49	D5	Penetration	3
T201	D2170	Kinematic Viscosity	3
T202	D2171	Absolute Viscosity	3
T315	D2175	Dynamic Shear Rheometer (DSR)	3

1 The option to determine the asphalt content per D8159 was added to HMS samples 91 and 92. Low ratings or no results on asphalt binder content will result in a suspension of accreditation for T164 and D2172. If a laboratory wishes to perform both D8159 and T164/D2172, the laboratory should perform T164/D2172 on the normal round of testing and D8159 on an extra sample.

2a Low ratings/no results must occur on the same sieve size in order to be considered consecutive.

2b Low ratings/no results must occur on samples extracted by the same test (T308/D6307 or T164/D2172) in order to be considered consecutive.

3 Data for tests on residue are only required to be submitted if a laboratory is accredited for a method of recovery (R59/D1856 or D5404) and one of the tests on residue.

Hot Mix Asphalt Ignition Oven (HMI)

AASHTO	ASTM	Test Name	Policy
T308	D6307	AC Content by Ignition Oven	-
T30	D5444	Gradation of Extracted Aggregate	1

1a Low ratings/no results must occur on the same sieve size in order to be considered consecutive.

1b Low ratings/no results must occur on samples extracted by the same test (T308/D6307 or T164/D2172) in order to be considered consecutive.

1c The mass removed by washing over the 75-µm (No. 200) sieve will not be evaluated by the accreditation program.



Hot Mix Asphalt Marshall Design (MAR)

AASHTO	ASTM	Test Name	Policy
R68	D6926	Marshall Compaction	-
T245	D6927	Stability and Flow	4
T166	D2726	Bulk Specific Gravity	1, 2
T331	D6752	Bulk Specific Gravity – Core Lok	1, 2
T209	D2041	Maximum Specific Gravity	-
T269	D3203	Percent Air Voids	1
	D3549	Height of Compacted Specimens	3

- 1** No action to be taken if laboratory does not submit data for this test and the laboratory is accredited for the (cores) variation of the bulk specific gravity tests.
- 2a** If a laboratory is accredited for T166/D2726 and T331/D6752, the laboratory must perform both tests in order to maintain accreditation for both tests.
- 2b** If low scores result in a suspension of T166/D2726, accreditation for T275/D1188 will be suspended as well.
- 3** Low scores on height measurement will result in a suspension of R68/D6926 and D3549 since they can be an indication of an error in the compaction process and/or the measurement itself.
- 3b** A laboratory that prepares samples for T283/D4867 using T312/D6925 is not required to enroll in the HVM or MAR programs only for D3549.
- 4** Once negative action has occurred on one test value (stability or flow), satisfactory results are needed on all test values (stability and flow).

Hot Mix Asphalt Gyratory Design (HMG)

AASHTO	ASTM	Test Name	Policy
T312	D6925	Gyratory Compactor	-
T166	T2726	Bulk Specific Gravity	1, 2, 3
T331	D6752	Bulk Specific Gravity – Core Lok	3
T209	D2041	Maximum Specific Gravity	2
T100 (Mineral Filler)		Specific Gravity of Mineral Filler	4

- 1** No action to be taken if laboratory does not submit data for this test and the laboratory is accredited for the (cores) variation of the bulk specific gravity tests.
- 2** The HMG sample does not include T269/D3203 directly; however, if accreditation for any of the prerequisite test methods for T269/D3203 is revoked or withdrawn, T269/D3203 will be revoked or withdrawn.



Hot Mix Asphalt Gyrotory Design (HMG) (continued)

- 3a** If a laboratory is accredited for T166/D2726 and T331/D6752, the laboratory must perform both tests in order to maintain accreditation for both tests.
- 3b** If low scores result in a suspension of T166/D2726, accreditation for T275/D1188 will be suspended as well.
- 4** This method will be listed in the aggregate scope if a laboratory is accredited for R35. If a laboratory is also accredited for T100 in the soils scope, the laboratory must perform T100 testing on the Soil Classification and Compaction samples also.

Hot Mix Asphalt Hveem Design (HVM)¹

AASHTO	ASTM	Test Name	Policy
T247	D1561	CA Kneading Compactor	1
T246	D1560	Hveem (Corrected and Uncorrected)	2
T166	D2726	Bulk Specific Gravity	3, 4
T209	D2041	Maximum Specific Gravity	-
T269	D3203	Percent Air Voids	3
	D3549	Height of Compacted Specimens	5

State Compaction and Stabilometer Methods

CPL-5115 & CPL-5106	CO Gyrotory and Hveem	1, 2
TX-206-F & TX-208-F	TX Gyrotory and Hveem	1, 2

- 1a** Laboratories that are accredited for TX-206-F, CPL 5115, or T247/D1561 must be participating in this sample starting in 2014 whether they are performing the Hveem test or not. Height of compaction will be evaluated.
- 1b** For the HVM samples, the specimens can be compacted by either the California kneading compactor, Texas gyrotory compactor, or the Colorado 4-inch Superpave gyrotory compactor. Ratings will be evaluated for only one of the compaction methods even if the laboratory is accredited for more than one.
- 2** Low ratings/no results on corrected or uncorrected will result in a suspension.
- 3** No action to be taken if laboratory does not submit data for this test and the laboratory is accredited for the (cores) variation of the bulk specific gravity tests.
- 4** If low scores result in a suspension of T166/D2726, accreditation for T275/D1188 and T331/D6752 will also be suspended.
- 5a** Low scores on height measurement will result in a suspension of T247/D1561 and D3549 since they can be an indication of an error in the compaction process and/or the measurement itself.
- 5b** A laboratory that prepares samples for T283/D4867 using T312/D6925 is not required to enroll in the HVM or MAR programs only for D3549.



California Bearing Ratio (CBR)

AASHTO	ASTM	Test Name	Policy
T193	D1883	California Bearing Ratio	1

1 Low ratings/no results on CBR values at 0.1 and 0.2 in. will result in a suspension. Ratings on moisture content and swell will not be evaluated for accreditation purposes.

R-Value (RVL)

AASHTO	ASTM	Test Name	Policy
T190	D2844	R-Value	1

1 Ratings on moisture content will not be evaluated for accreditation purposes.

Soil Classification and Compaction (SOL)

AASHTO	ASTM	Test Name	Policy
T88	D422	Particle Size Analysis/Hydrometer	1, 2
T89	D4318	Liquid Limit	3
T90	D4318	Plastic Limit	3
T100	D854	Specific Gravity	4
T99	D698	Standard Proctor	5
T180	D1557	Modified Proctor	5
	D4943	Shrinkage Factor	-
	D7928	Hydrometer	1

1a Low ratings/no results must occur on the same test value in order to be considered consecutive. Once negative action has occurred on one test value, satisfactory results are needed on all test values.

1b A laboratory that is accredited for both methods of hydrometer testing shall submit test data for both T88/D422 and D7928. A suspension for either T88/D422 or D7928 does not affect the other hydrometer method.

2 Ratings or no data on Total Material Smaller Than 0.001 mm will not be evaluated for accreditation purposes.

3 Low ratings/no results on the liquid limit procedure or plastic limit procedure of D4318 will result in a suspension for all D4318. Once negative action has occurred on one test value, satisfactory results are needed on both procedures to be reinstated for D4318.

4 Participation is required for soils testing only. If a laboratory is accredited for T100 (Mineral Filler) in the aggregate scope, the laboratory must perform T100 testing on the Asphalt Mixture Gyratory Design (HMG) samples also.



Soil Classification and Compaction (SOL) (continued)

- 5a** Laboratories will have the option of testing standard (T99/D698) or modified (T180/D1557) Proctors. Accreditation for both T99/D698 and T180/D1557 will be evaluated based on the proficiency sample results of either the standard or modified compaction test. A laboratory accredited for only T99/D698 or T180/D1557 must submit results for that effort.
- 5b** Satisfactory ratings are required for the entire test method for reinstatement to occur.

Fine Aggregate (AGF)

AASHTO	ASTM	Test Name	Policy
T11	C117	Minus No. 200 Wash	1
T27	C136	Sieve Analysis	2
T84	C128	Specific Gravity	-
T104	C88	Soundness	2, 3
T176	D2419	Sand Equivalent	-
T304	C1252	Uncompacted Void Content	4
	D7428	Micro Deval	-

- 1** The mass of the sample before washing will not be evaluated for accreditation purposes.
- 2a** Low ratings/no results must occur on the same sieve size in order to be considered consecutive. Once negative action has occurred on one test value (sieve size), satisfactory results are needed on all test values (sieve sizes).
- 2b** A suspension for these tests will occur if consecutive low ratings/no results are received on coarse or fine aggregate. The ratings are to be evaluated separately and will cause the entire test to be suspended rather than just the portion that was included in the offending sample results. However, accreditation may reflect “Coarse Aggregate” or “Fine Aggregate” if the laboratory is not a participant due to the type of work they are performing normally.
- 3** A laboratory may submit results for testing using either Sodium or Magnesium Sulfate.
- 4** Only the average result will be used for accreditation purposes.



Coarse Aggregate (AGC)

AASHTO	ASTM	Test Name	Policy
T11	C117	Minus No. 200 Wash	1
T27	C136	Sieve Analysis	2
T85	C127	Specific Gravity	-
T104	C88	Soundness	2, 3
T96	C131/C535	La Abrasion	4
T327	D6928	Micro Deval	-

1 Ratings for T11/C117 will not be evaluated for accreditation purposes on Coarse Aggregate samples.

2a Low ratings/no results must occur on the same sieve size in order to be considered consecutive. Once negative action has occurred on one test value (sieve size), satisfactory results are needed on all test values (sieve sizes).

2b A suspension for these tests will occur if consecutive low ratings/no results are received on coarse or fine aggregate. The ratings are to be evaluated separately and will cause the entire test to be suspended rather than just the portion that was included in the offending sample results. However, accreditation may reflect “Coarse Aggregate” or “Fine Aggregate” if the laboratory is not a participant due to the type of work they are performing normally.

3 A laboratory may submit results for testing using either Sodium or Magnesium Sulfate.

4 Low ratings/no results for LA Abrasion will lead to suspensions for both T96/C131 and C535.

Alkali Silica Reactivity

AASHTO	ASTM	Test Name	Policy
T303	C1260	Alkali Silica Reactivity	1

1 Only the 14-day reading will be evaluated for accreditation purposes.

Concrete

AASHTO	ASTM	Test Name	Policy
T22	C39	Compressive Strength	1
T119	C143	Slump	-
T121	C138	Unit Weight	-
T152	C231	Air Content - Pressure Method	-
T196	C173	Air Content – Volumetric Method	-
T309	C1064	Temperature	2

1a Participation is required for all laboratories accredited for T22/C39. If someone else molds their cylinders, the laboratory can have them mold their proficiency samples too.

1b Ratings on density will not be evaluated for accreditation purposes.

2 Laboratory accreditation is not suspended for low ratings or no data on T309/C1064 results.



Masonry Cement

AASHTO	ASTM	Test Name	Policy
T106	C187	Normal Consistency	1
T154	C266	Time of Setting - Gilmore Needle	1
T107	C151	Autoclave Expansion	1
T137	C185	Air Content of Mortar	1
T106	C109	Compressive Strength	1, 2
T192	C430	Fineness – No. 325 Sieve	1
	C1506	Water Retention	1, 3
T133	C188	Density	1

1a The various types of cement will be evaluated independently of each other.

1b For methods that are included in more than one sample program, a laboratory only needs to enroll in the program specific to the type of work they are doing. For example, T106/C109 is included in the Portland, Blended, and Masonry Cement programs; if a laboratory only tests Portland Cement, they only need to enroll in that program.

2 For compressive strength (T106/C109), specification C91 dictates that compressive strength must be tested for the 7- and 28-day periods. Satisfactory ratings are required for the 7- and 28-day compressive strength tests in order to maintain accreditation for T106/C109.

3 All water retention results are used for accreditation purposes: water, initial flow, final flow, and water retention value.



Portland Cement

Physical Testing

AASHTO	ASTM	Test Name	Policy
T106	C109	Compressive Strength	1, 2
T107	C151	Autoclave Expansion	1
T129	C187	Normal Consistency	1
T137	C185	Air Content of Mortar	1
T153	C204	Fineness – Blaine Apparatus	1
T98	C115	Fineness - Turbidimeter	3
T192	C430	Fineness – No. 325 Sieve	1
T131	C191	Time of Setting - Vicat Needle	1
T154	C266	Time of Setting - Gilmore Needle	1
T186	C451	Early Stiffening (False Set)	3
	C1038	Expansion	3
	C186	Heat of Hydration	1, 4
	C1702	Heat of Hydration (Calorimetry)	5

Chemical Testing

AASHTO	ASTM	Test Name	Policy
T105	C114	Silicon Dioxide (SiO ₂)	1
		Aluminum Oxide (Al ₂ O ₃)	1
		Ferric Oxide (Fe ₂ O ₃)	1
		Calcium Oxide (CaO)	1
		Free Calcium Oxide [Free Lime] (C _x)	3
		Magnesium Oxide (MgO)	1
		Sulfur Trioxide (SO ₃)	1
		Loss on Ignition (LOI)	1
		Sodium Oxide (Na ₂ O)	1
		Potassium Oxide (K ₂ O)	1
		Strontium Oxide (SrO)	3
		Titanium Dioxide (TiO ₂)	3
		Phosphorous Pentoxide (P ₂ O ₅)	1
		Zinc Oxide (ZnO)	1
		Manganic Oxide (Mn ₂ O ₃)	1
		Chloride (Cl)	1
		Insoluble Residue (IR)	1
		Carbon Dioxide (CO ₂)	3, 6
		Limestone Content	3, 6
		Chromium Oxide (Cr ₂ O ₃)	1
Tricalcium Silicate (C ₃ S)	3		
Dicalcium Silicate (C ₂ S)	3		
Tricalcium Aluminate (C ₃ A)	3		
Tetracalcium Aluminoferrite (C ₄ AF)	3		



Portland Cement (continued)

- 1a** The various types of cement will be evaluated independently of each other.
- 1b** For methods that are included in more than one sample program, a laboratory only needs to enroll in the program specific to the type of work they are doing. For example, T106/C109 is included in the Portland, Blended, and Masonry Cement programs; if a laboratory only tests Portland Cement, they only need to enroll in that program.
- 2a** Specification C150 dictates that compressive strength must be tested for the 3- and 7-day periods. Satisfactory results are required for the 3- and 7-day compressive strength tests in order to maintain accreditation for T106/C109.
- 2b** Compressive Strength Flow ratings are evaluated for accreditation purposes.
- 3** This is only available on the CCRL Portland Cement samples.
- 4** All elements of C186 are evaluated for accreditation purposes.
- 5** Both the 3 and 7-day results are evaluated for accreditation purposes.
- 6** Carbon Dioxide and Limestone Content results are only provided when limestone has been added to the Portland cement samples.

Blended Cement



Physical Testing

AASHTO	ASTM	Test Name	Policy
T106	C109	Compressive Strength	1, 2
T107	C151	Autoclave Expansion	1
T129	C187	Normal Consistency	1
T133	C188	Density	1
T137	C185	Air Content of Mortar	1
T153	C204	Fineness – Blaine Apparatus	1
T192	C430	Fineness – No. 325 Sieve	1
T131	C191	Time of Setting - Vicat Needle	1
	C186	Heat of Hydration	1, 3

Chemical Testing

AASHTO	ASTM	Test Name	Policy
T105	C114	Silicon Dioxide (SiO ₂)	1
		Aluminum Oxide (Al ₂ O ₃)	1
		Ferric Oxide (Fe ₂ O ₃)	1
		Calcium Oxide (CaO)	1
		Magnesium Oxide (MgO)	1
		Sulfur Trioxide (SO ₃)	1
		Sulfide Sulfur	4
		Loss on Ignition (LOI)	1
		Sodium Oxide (Na ₂ O)	1
		Potassium Oxide (K ₂ O)	1
		Phosphorous Pentoxide (P ₂ O ₅)	1
		Zinc Oxide (ZnO)	1
		Manganic Oxide (Mn ₂ O ₃)	1
		Chloride (Cl)	1
Insoluble Residue (IR)	1		
Chromium Oxide (Cr ₂ O ₃)	1		

1a The various types of cement will be evaluated independently of each other.

1b For methods that are included in more than one sample program, a laboratory only needs to enroll in the program specific to the type of work they are doing. For example, T106/C109 is included in the Portland, Blended, and Masonry Cement programs; if a laboratory only tests Portland Cement, they only need to enroll in that program.

2a Specification C595 dictates that compressive strength must be tested for the 3-, 7-, and 28-day periods. Satisfactory results are required for the 3-, 7-, and 28-day compressive strength tests in order to maintain accreditation for T106/C109.

2b CS Mix Water and Compressive Strength Flow are evaluated for accreditation purposes.

3 All elements of C186 are evaluated for accreditation purposes.



Blended Cement (continued)

4 This is only available on the CCRL Blended Cement samples.

Pozzolan
Physical Testing

AASHTO	ASTM	Test Name	Policy
T106	C109	Compressive Strength	1, 2
T107	C151	Autoclave Expansion	1
T160	C157	Increase of Drying Shrinkage	3
T133	C188	Density	1
T137	C185	Air Content of Mortar	1
T192	C430	Fineness – No. 325 Sieve	1

Chemical Testing

AASHTO	ASTM	Test Name	Policy
T105	C114	Moisture Content	3
		Silicon Dioxide (SiO ₂)	1
		Aluminum Oxide (Al ₂ O ₃)	1
		Ferric Oxide (Fe ₂ O ₃)	1
		Calcium Oxide (CaO)	1
		Magnesium Oxide (MgO)	1
		Sulfur Trioxide (SO ₃)	1
		Loss on Ignition (LOI)	1
		Sodium Oxide (Na ₂ O)	1
		Potassium Oxide (K ₂ O)	1
		Available Alkalis	3

1 Pozzolan results will be evaluated independently of cement results even if the standard is also used in cement testing.

2 For compressive strength (T106/C109), specification C311 allows for 7 or 28-day specimens to be tested depending on amount of material and the requirements of the producer or user. In this case, the laboratory is being asked to supply results for 28-day compressive strength testing by CCRL. Satisfactory ratings are required for the 7 and 28-day compressive strength tests in order to maintain accreditation for T106/C109.

3 This is only available on the CCRL Pozzolan samples.



Masonry Mortar

AASHTO	ASTM	Test Name	Policy
T137	C185	Air Content of Mortar	1
T106	C109	Compressive Strength	1, 2
	C1506	Water Retention	1, 3

- 1a The various types of cement will be evaluated independently of each other. This is due to preparation and mixing differences.
- 1b For methods that are included in more than one sample program, a laboratory only needs to enroll in the program specific to the type of work they are doing. For example, T106/C109 is included in the Portland, Blended, and Masonry Cement programs; if a laboratory only tests Portland Cement, they only need to enroll in that program.
- 2 For compressive strength (T106/C109), specification C91 dictates that compressive strength must be tested for the 7- and 28-day periods. Satisfactory ratings are required for the 7- and 28-day compressive strength tests in order to maintain accreditation for T106/C109.
- 3 All water retention results are used for accreditation purposes: water, initial flow, final flow, and water retention value.

Concrete Masonry Units

AASHTO	ASTM	Test Name	Policy
	C140	Measuring	1, 2
		Absorption	1
		Compressive Strength	1, 3

- 1 Low scores in Measuring, Absorption, and/or Compressive Strength will result in a suspension of C140; however, a laboratory that tests a blind CMU sample to resolve a C140 suspension need only test the item (Measuring, Absorption, and/or Compressive Strength) which led to the suspension.
- 2 Measuring is evaluated by face shell thickness, web thickness, net area, density, and equivalent thickness. Low ratings/no results must occur on the same test value in order to be considered consecutive. Once negative action has occurred on one test value satisfactory results are needed on all test values.
- 3 For compressive strength (T106/C109), specification C91 dictates that compressive strength must be tested for the 7- and 28-day periods. Satisfactory ratings are required for the 7- and 28-day compressive strength tests in order to maintain accreditation for T106/C109.



Steel Reinforcing Bar

AASHTO	ASTM	Test Name	Policy
T244	A370	Weight per Unit Length	n/a
		Measurement of deformations	n/a
		Average Height	n/a
		Gap	n/a
		Tensile Strength	1, 2
		Yield Strength	1, 2
		Elongation	1, 2

1 Only testing for tensile strength, elongation, and yield strength will be used for accreditation purposes.

2 Low ratings / no results in the CCRL proficiency sample will result in suspensions for all types of rebar tested (M31/A615, A706, A970).

Revision Updates

Revision Date	Revision Summary
1/10/2020	Original Publication
6/16/2020	<ul style="list-style-type: none"> • Editorial Changes • Added rule 3b under the MAR sample and 5b under the HVM sample • Added rule 5 under the VGA sample • Added rule 1c under the HMI sample • Added rule 2 under the Steel Reinforcing Bar sample • Included T269/D3203 in rule 1 of the MAR sample and rule 3 of the HVM sample
10/9/2020	<ul style="list-style-type: none"> • Editorial Changes • Added rule 5b under EML sample • Added rule 4 under MAR sample • Added rule 2 under SOL sample