



Introduction

Sometimes a standard requires conformance to other standards in order to conform to the standard itself. The AASHTO Accreditation Program refers to this situation as a prerequisite requirement for accreditation of the standard. This document describes the specific prerequisite requirements that are enforced by the AASHTO Accreditation Program.

Using the Prerequisite Tables

If there are unresolved nonconformities or accreditation is withdrawn, suspended, or revoked on the prerequisite standard in the left-hand column, there is a potential for additional action on the standards listed in the right-hand column. The standards listed in the right-hand columns have a superscript which directs the user to "rules" listed below all the tables.

Asphalt Binder

Prerequisite Standard	Affected Standard
R28/D6521 Accelerated Aging of Binder Using a PAV	R29 ¹
	T313/D6648 ²
	T314/D6723 ²
	T315/D7175 ²
T240 Rolling Thin-Film Oven Test	R29 ¹
T313 Bending Beam Rheometer	R29 ¹
T315 Dynamic Shear Rheometer	R29 ¹

Asphalt Mixture

Prerequisite Standard	Affected Standard
T166/D2726 Bulk Specific Gravity	R35 ³
	T269/D3203 ⁴
	T283/D4867 ⁵
	D1075 ¹⁵
	T331/D6752 ²⁰
	T275/D1188 ²⁰
T275/D1188 Bulk Specific Gravity Using Parafin/Parafilm	R35 ³
	T269/D3203 ⁴
T331/D6752 Bulk Specific Gravity – Vacuum Sealing Method	T269/D3203 ⁴
	D1075 ¹⁵
T209/D2041 Maximum Specific Gravity (Rice)	R35 ³
	T269/D3203 ⁴
	T283/D4867 ⁵
T269/D3203 Percent Air Voids	T283/D4867 ⁵

Asphalt Mixture (Continued)

Prerequisite Standard	Affected Standard
D3549 Height of Compacted Specimens	T245/D6927 ⁶
	T283/D4867 ⁶
	D6931 ⁶
T164/D2172 Asphalt Content by Extraction	T30/D5444 ⁷
T308/D6307 Asphalt Content by Ignition Oven	T30/D5444 ⁷
D8159 Asphalt Content by Automated Extraction	T30/D5444 ⁷
T30 Gradation	T308 ⁸
T312/D6925 Gyratory Compaction	R35 ³
	T166/D2726 ⁹
	T275/D1188 ⁹
	T331/D6752 ⁹
	D6931 ⁹
	T283 ⁹
	D4867 ⁵
R68/D6926 Marshall Compaction	T166/D2726 ⁹
	T275/D1188 ⁹
	T331/D6752 ⁹
	D6931 ⁹
	T283 ⁹
	D4867 ⁵
T247/D1561 California Kneading Compaction	T166/D2726 ⁹
	T275/D1188 ⁹
	T331/D6752 ⁹
	D6931 ⁹
	T283 ⁹
	D4867 ⁵
D1074 Compressive Strength of Asphalt	D1075 ¹⁵
CPL-5115 State Compaction Methods	T166/D2726 ⁹
TX-206-F	T275/D1188 ⁹
	T331/D6752 ⁹
	D6931 ⁹
	CPL-5106 ¹⁹
	TX-208-F ¹⁹
	T283 ⁹
	D4867 ⁵

Concrete, Cement, Pozzolan, and Masonry

Prerequisite Standard	Affected Standard
M201/C511 Specification for Moist Cabinets, Moist Rooms, and Water Storage Tanks – as it pertains to Moist Cabinets/Rooms and Water Storage Tanks	T160/C157 ²² C1038 ²²
M201/C511 Specification for Moist Cabinets, Moist Rooms, and Water Storage Tanks – as it pertains to Moist Cabinets/Rooms only	T71/C87 ²² T106/C109 ²² T107/C151 ²² T131/C191 ²² C227 ²² T154/C266 ²² C348 ²² C441 ²² C452 ²² C596 ²² C672 ²² C780 (Annex 6) ²² C882 ²² C942 ²² C953 ²² C1090 ²² C1105 ²² C1140 (Latex admixture) ²² T303/C1260 ²² C1293 ²² C1567 ²²
M201/C511 Specification for Moist Cabinets, Moist Rooms, and Water Storage Tanks – as it pertains to Moist Cabinets/Rooms or Water Storage Tanks	T23/C31 ²² T22/C39 ²² T97/C78 ²² R39/C192 ²² T177/C293 ²² C469 ²² T198/C496 ²² C567 ²² C1019 ²² T325/C1074 ²² C1202 ²² C1609 ²²
C780 (Annex 1) Test Method for Consistency by Cone Penetration	C780 (Annex 6) ²⁴
C1552 Standard Practice for Capping Concrete Masonry Units, Related Units and Masonry Prisms for Compression Testing	C140 ²⁵ C1314 ²⁵

Concrete, Cement, and Masonry (continued)

Prerequisite Standard	Affected Standard
R39/C192 Making/Curing Concrete Specimens in the Laboratory	C1293 ²⁷
T119/C143 Slump of Hydraulic Cement Concrete	C1293 ²⁷
T121/C138 Density (Unit Weight), Yield, and Air Content	C1293 ²⁷
C230 ³¹ Flow Table for Use in Tests of Hydraulic Cement	T106 ³¹ T137 ³¹ T160 ³¹ C109 ³¹ C157 ³¹ C185 ³¹ C1038 ³¹ C1437 ³¹ C1012 ³¹ C1856-C1437 ³¹
C490 Standard Practice for Use of Apparatus for the Determination of Length Change of Hardened Cement Paste, Mortar, and Concrete	T107 ³⁰ T160 ³⁰ C151 ³⁰ C157 ³⁰ C341 C1012 ³⁰ C1105 C1293 C1856-C157 C1856-C341

Aggregate

Prerequisite Standard	Affected Standard
R76/C702 Aggregate Splitting	R35 ³
T11/C117 -No. 200 Wash	R35 ³ D2487 ¹³
T27/C136 Sieve Analysis	R35 ³ T304/C1252 ¹⁰ D2487 ¹²
T84/C128 Fine Aggregate Specific Gravity	R35 ³ T304/C1252 ¹⁰
T85/C127 Coarse Aggregate Specific Gravity	R35 ³ D4718 ¹³
T100 (Mineral Filler) Specific Gravity	R35 ³

Rock

Prerequisite Standard	Affected Standard
D4543 Preparation of Rock Core Specimens	D7012 ¹⁴

Soil

Prerequisite Standard	Affected Standard
R58 Dry Preparation (AASHTO)	T88 ¹¹
	T89 ¹¹
	T90 ¹¹
R74 Wet Preparation	T88 ¹¹
	T89 ¹¹
	T90 ¹¹
D421 Dry Preparation (ASTM)	D422 ¹¹
T89,T90/D4318 Liquid and Plastic (Atterberg) Limits	D2487 ¹²
T88/D422 Particle-Size Analysis/Hydrometer	D2487 ¹²
T311 Grain-Size Analysis of Granular Soil Materials	D2487 ¹²
D1140 -No. 200 Wash	D2487 ¹²
D6913 Coarse-Grained Gradation	D2487 ¹²
D7928 Fine-Grained Hydrometer Analysis	D2487 ¹²
D698 Standard Proctor	D4718 ¹³
D1557 Modified Proctor	D4718 ¹³
FM1-T180 Moisture-Density Relations (FL)	FM5-515 ²⁶
T134/D558 Moisture-Density (Unit Weight) Relations of Soil-Cement Mixtures	T135/D559 ²⁸
	T136/D560 ²⁸
D559 Wetting and Drying Compacted Soil-Cement Mixtures	D1633 ²⁹
D560 Freezing and Thawing Compacted Soil-Cement Mixtures	D1633 ²⁹
D1632 Making and Curing Soil-Cement Compression and Flexure Test Specimens in the Laboratory	D1633 ²⁹

Iron and Steel

Prerequisite Standard	Affected Standard
T244/A370 Carbon-Steel Rebar Testing	T244/A370 ²¹

Quality Management Systems

Quality Standard	Required Methods
C1077 Practice for Agencies Testing Concrete and Concrete Aggregates	C117 ¹⁶ C127 ¹⁶ C128 ¹⁶ C136 ¹⁶ C31 ¹⁶ C39 ¹⁶ C138 ¹⁶ C143 ¹⁶ C172 ¹⁶ C173 or C231 ¹⁶ C617 or C1231 ¹⁶ C1064 ¹⁶
D3666 Minimum Requirements for Agencies Testing and Inspecting Road and Paving Materials	Accreditation for at least 3 methods in the scope of testing ¹⁷
D3740 Practice for Minimum Requirements for Agencies Engaged in Testing of Soil and Rock	Accreditation for at least 5 soil and/or rock test methods ¹⁸
E329 (Steel Inspection) Standard Specification for Agencies Engaged in Construction Inspection, Testing, or Special Inspection	F3125 (Rotational Capacity aka Skidmore)

1 A laboratory needs to be accredited for R28, T240, T313, and T315 to maintain accreditation for R29. Accreditation will not automatically be suspended for R29 when R28, T240, T313, and T315 is suspended. If R28, T240, T313, and T315 has been revoked or withdrawn, accreditation for R29 will be withdrawn.

2 R28/D6521 is required to be performed when testing for T313/D6648, T314/D6723, or T315/D7175. Accreditation for T313/D6648, T314/D6723, and/or T315/D7175 will not automatically be suspended if R28/D6521 is suspended. Accreditation for T313/D6648, T314/D6723, or T315/D7175 will be withdrawn if R28/D6521 is revoked or withdrawn.

3 A laboratory needs to be accredited for R76, T11, T27, T84, T85, T100 (Mineral Filler), T209, T312, and T166 and/or T275 to maintain accreditation for R35. Accreditation will not automatically be suspended for R35 when T11, T27, T84, T85, T100 (Mineral Filler), T209, T312, and both T166 and/or T275 is suspended. If T11, T27, T84, T85, T100 (Mineral Filler), T209, T312, or both T166 and T275 has been revoked or withdrawn, accreditation for R35 will be withdrawn.

4a A laboratory needs to be accredited for T166, D2726, T275, D1188, T331, or D6752 to maintain accreditation for T269/D3203. Accreditation will not automatically be suspended for T269/D6203 when T166, D2726, T275, D1188, T331, or D6752 is suspended. If T166, D2726, T275, D1188, T331, and D6752 have been revoked or withdrawn, accreditation for T269/D3203 will be withdrawn based on the lack of accreditation for a bulk standard. Maintaining accreditation for either a cores-only or full version of at least one of these bulk standards satisfies the requirement for air voids.

4b A laboratory needs to be accredited for T209/D2041 to maintain accreditation for T269/D3203. Accreditation will not automatically be suspended for T269/D6203 when T209/D2041 is suspended. If T209/D2041 has been revoked or withdrawn, accreditation for T269/D3203 will be withdrawn based on the lack of accreditation for T209/D2041.

5a A laboratory needs to be accredited for T166/D2726, T209/D2041, and T269/D3203 to maintain accreditation for T283/D4867. Accreditation will not automatically be suspended for T283/D4867 when T166/D2726, T209/D2041, or T269/D3203 is suspended. If T166/D2726, T209/D2041, or T269/D3203 has been revoked or withdrawn, accreditation for T283/D4867 will be withdrawn based on the lack of accreditation for T166/D2726, T209/D2041, or T269/D3203.

5b A laboratory needs to be accredited for a form of compaction (R68, D6926, T247, D1561, T312, D6925, CP-L 5115, or TX-206-F) to maintain accreditation for D4867. Accreditation will not automatically be suspended for D4867 when the method of compaction is suspended. If all methods of compaction have been revoked or withdrawn, accreditation for D4867 will be withdrawn based on the lack of accreditation for a method of compaction.

6 A laboratory needs to be accredited for D3549 to maintain accreditation for T245/D4867, T283/D4867, and D6913. Accreditation will not automatically be suspended for T245/D4867, T283/D4867, and D6913 when D3549 is suspended. D3549 has been revoked or withdrawn, accreditation for T245/D4867, T283/D4867, and D6913 will be withdrawn based on the lack of accreditation for D3549.

7 A laboratory needs to be accredited for a form of extraction (T164, D2172, T308, D6307, or D8159) to maintain accreditation for T30/D5444. Accreditation will not be automatically suspended for T30/D5444 when T164, D2172, T308, D6307, or D8159 is suspended. If T164, D2172, T308, D6307, and D8159 have been revoked or withdrawn, T30/D5444 will be withdrawn based on the lack of accreditation for a method of extraction.

8 A laboratory needs to be accredited for T30 to maintain accreditation for T308. Accreditation will not be automatically suspended for T308 when T30 is suspended. If T30 has been revoked or withdrawn, accreditation for T308 will be withdrawn based on the lack of accreditation for T30.

9 A laboratory needs to be accredited for a form of compaction (R68, D6926, T247, D1561, T312, D6925, CP-L 5115, or TX-206-F) to maintain accreditation for T166/D2726, T275/D1188, T331/D6752, T283, and D6931 or they will have a notation of (cores) after the test method designation. Accreditation will not automatically be suspended for these tests when the method of compaction is suspended. If all methods of compaction have been revoked or withdrawn, these tests will be replaced with the cores options based on the lack of accreditation for a method of compaction.

10a A laboratory needs to be accredited for T27/C136 in order to be able to maintain accreditation for T304/C1252. Accreditation will not automatically be suspended for T304/C1252 when a T27/C136 is suspended. If T27/C136 is revoked or withdrawn, accreditation for T304/C1252 will be withdrawn based on a lack of accreditation for T27/C136.

10b A laboratory needs to be accredited for T84/C128 in order to be able to maintain accreditation for T304/C1252. Accreditation will not automatically be suspended for T304/C1252 when T84/C128 is suspended. If accreditation for T84/C128 is revoked or withdrawn, accreditation for T304/C1252 will be withdrawn based on a lack of accreditation for T84/C128. Another AASHTO Accredited laboratory may be able to provide the test result for T84/C128 if this is part of the laboratory's normal process and the situation has been approved by the AASHTO Accreditation Program.

11a A laboratory needs to be accredited for R58 or T146 in order to be able to maintain accreditation for T88. Accreditation will not automatically be suspended for T88 when R58 or T146 is suspended. If both R58 and T146 is revoked or withdrawn, accreditation for T88 will be withdrawn based on a lack of accreditation for R58 or T146.

11b A laboratory needs to be accredited for R58 or T146 in order to be able to maintain accreditation for T89 or T90. Accreditation will not be automatically suspended for T89 or T90 when R58 or T146 is suspended. If both R58 and T146 is revoked or withdrawn, accreditation for T89 or T90 will be withdrawn based on a lack of accreditation for R58 or T146.

11c A laboratory needs to be accredited for D421 in order to be able to maintain accreditation for D422. Accreditation will not automatically be suspended for D422 when D421 is suspended. If D421 is revoked or withdrawn, accreditation for D422 will be withdrawn based on a lack of accreditation for D421.

12 A laboratory needs to be accredited for plasticity index (D4318 or the combination of T89 and T90), a method of wash (C117, D1140, D422, D6913, D7928, T11, T88), and a method of particle size analysis (C136, D422, D6913, D7928, T27, or T88) to maintain accreditation for D2487. Accreditation will not be automatically suspended for D2487 when a required test is suspended. If a test requirement is not satisfied though revocation or withdrawal, accreditation for D2487 will be withdrawn based on a lack of accreditation for the underlying test(s).

13a A laboratory needs to be accredited for D698 or D1557 to maintain accreditation for D4718. Accreditation will not automatically be suspended for D4718 when D698 and D1557 are suspended. If both D698 and D1557 have been revoked or withdrawn, accreditation for D4718 will be withdrawn based on the lack of accreditation for D698 or D1557.

13b A laboratory needs to be accredited for C127 to maintain accreditation for D4718. Accreditation will not automatically be suspended for D4718 when C127 is suspended. If C127 has been revoked or withdrawn, accreditation for D4718 will be withdrawn based on the lack of accreditation for C127.

14 A laboratory needs to be accredited for D4543 to maintain accreditation for D7012. Accreditation will not automatically be suspended for D7012 when D4543 is suspended. If D4543 has been revoked or withdrawn, accreditation for D7012 will be withdrawn based on the lack of accreditation for D4543.

15a A laboratory needs to be accredited for D1074 to maintain accreditation for D1075. Accreditation will not automatically be suspended for D1075 when D1074 is suspended. If D1074 has been revoked or withdrawn, accreditation for D1075 will be withdrawn based on the lack of accreditation for D1074.

15b A laboratory needs to be accredited for D2726 or D6752 to maintain accreditation for D1075. Accreditation will not automatically be suspended for D1075 when D2726 or D6752 is suspended. If both D2726 and D6752 have been revoked or withdrawn, accreditation for D1075 will be withdrawn based on the lack of accreditation for D2726 or D6752. Accreditation for D2726 (Cores) or D6752 (Cores) fulfills this requirement.

16a Accreditation for C1077 (Aggregate) requires accreditation for C117, C127, C128, and C136. If C117, C127, C128, and/or C136 are suspended, accreditation for C1077 (Aggregate) will be suspended.

16b Accreditation for C1077 (Concrete) requires accreditation for C39, C617 or C1231, C31, C172, C138, C143, C173 or C231, and C1064. If C39, C617 and C1231, C31, C172, C138, C143, C173 and C231, and/or C1064 are suspended, accreditation for C1077 (Concrete) will be suspended.

17 The AASHTO Accreditation Program offers accreditation for D3666 under several material types; Aggregate, Asphalt Binder, Asphalt Mixture, and Emulsions. If the suspension of a test method results in a laboratory being accredited for less than 3 methods under a scope for which the laboratory holds D3666 accreditation, accreditation for D3666 of that scope will be suspended.

18 If the suspension of a test method results in a laboratory being accredited for less than 5 methods under the soil and/or rock scope, accreditation for D3740 will be suspended.

19a A laboratory needs to be accredited for CPL-5115 to maintain accreditation for CPL-5106. Accreditation will not automatically be suspended for CPL-5106 when CPL-5115 is suspended. If CPL-5115 has been revoked or withdrawn, accreditation for CPL-5106 will be withdrawn based on the lack of accreditation for CPL-5115.

19b A laboratory needs to be accredited for TX-206-F to maintain accreditation for TX-208-F. Accreditation will not automatically be suspended for TX-208-F when TX-206-F is suspended. If TX-206-F has been revoked or withdrawn, accreditation for TX-208-F will be withdrawn based on the lack of accreditation for TX-206-F.

20a For the MAR and HMG samples, 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.

20b T275/D1188 will be suspended along with T166/D2726.

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

22 The requirement for curing rooms, cabinets, and tanks are dependent on the standard and the manner in which the laboratory chose to conform to the requirements if an option exists. For more details, refer to the [AASHTO Accreditation Policy on Curing Facilities](#).

23 Accreditation for E329 (Steel Inspection) requires accreditation for F3125 (Rotational Capacity aka Skidmore). If F3125 is suspended, accreditation for E329 (Steel Inspection) will be suspended.

24 A laboratory needs to be accredited for C780 (Annex 1) to maintain accreditation for C780 (Annex 6). Accreditation will not automatically be suspended for C780 (Annex 6) when C780 (Annex 1) is suspended. If C780 (Annex 1) has been revoked or withdrawn, accreditation for C780 (Annex 6) will be withdrawn based on the lack of accreditation for C780 (Annex 1).

25a A laboratory needs to be accredited for C1552 to maintain accreditation for C140. Accreditation will not automatically be suspended for C140 when C1552 is suspended. If C1552 has been revoked or withdrawn, accreditation for C140 will be withdrawn based on the lack of accreditation for C1552.

25b A laboratory needs to be accredited for C1552 to maintain accreditation for C1314. Accreditation will not automatically be suspended for C1314 when C1552 is suspended. If C1552 has been revoked or withdrawn, accreditation for C1314 will be withdrawn based on the lack of accreditation for C1552.

26 A laboratory needs to be accredited for FM1-T180 to maintain accreditation for FM5-515. Accreditation will not automatically be suspended for FM5-515 if FM1-T180 is suspended. If FM1-T180 revoked or withdrawn, FM5-515 will be withdrawn based on a lack of accreditation for the underlying test(s).

27 A laboratory needs to be accredited for R39/C192, T119/C143, and T121/C138 to maintain accreditation for C1293. Accreditation will not automatically be suspended for C1293 if R39/C192, T119/C143, or T121/C138 is suspended. If R39/C192, T119/C143, or T121/C138 is revoked or withdrawn, C1293 will be withdrawn based on a lack of accreditation for the underlying test(s).

28 A laboratory needs to be accredited for T134/D558 to maintain accreditation for T135/D559 and/or T136/D560. Accreditation will not automatically be suspended for T135/D559 and/or T136/D560 if T134/D558 is suspended. If T134/D558 is revoked or withdrawn, T135/D559 and/or T136/D560 will be withdrawn based on a lack of accreditation for the underlying test(s).

29a A laboratory needs to be accredited for D559 or D560 to maintain accreditation for D1633 (Method A). Accreditation will not automatically be suspended for D1633 if D559 and/or D560 are suspended. If D559 and D560 are revoked or withdrawn, D1633 will be withdrawn based on a lack of accreditation for the underlying test(s).

29b A laboratory needs to be accredited for D1632 to maintain accreditation for D1633 (Method B). Accreditation will not automatically be suspended for D1633 if D1632 is suspended. If D1632 is revoked or withdrawn, D1633 will be withdrawn based on a lack of accreditation for the underlying test(s).

30 A nonconformity for C490 will affect the standards in multiple scopes of accreditation listed. T160 and C157 are included in Concrete, Cement – Physical, and Pozzolan scopes. T107, C151, and C1012 are included in Cement – Physical and Pozzolan scopes.

31 C230 is not included in the scope of accreditation, but conformance to the standard's requirements is mandatory for the tests listed. Some of these standards are in cement, masonry, pozzolan, slag cement, and UHPC scopes, but there are some special considerations:

For C157, this prerequisite only applies for cement and pozzolan testing. It does not apply for concrete.

For C1012, this prerequisite only applies for pozzolan and slag cement. It does not apply for cement.

For C1567, this prerequisite only applies if silica fume or metakaolin are used. The directory is not that specific so this rule will not be enforced unless a concern is noted in the CCRL assessment report.

Revision Updates

Revision Date	Revision Summary
1/24/2020	Original Publication
2/10/2020	<ul style="list-style-type: none">Editorial ChangesAdded the F3125 (Skidmore) as a requirement for E329 (Steel Inspection), rule 23
6/16/2020	<ul style="list-style-type: none">Editorial ChangesAdded C780 (Annex 1) as a requirement or C780 (Annex 6), rule 24Removed requirements for T164/D2172 when determining the mineral matter volumetrically.
10/9/2020	<ul style="list-style-type: none">Editorial ChangesAdded C1552 as a requirement for C140 and C1314, rule 25
8/6/2021	<ul style="list-style-type: none">Editorial ChangesAdded FM1-T180 as a requirement for FM5-515, rule 26
1/18/2021	<ul style="list-style-type: none">Editorial changesAdded D8159 as a means of extraction to perform T30/D5444
4/19/2023	<ul style="list-style-type: none">Added prerequisites for C1293, rule 27
7/20/2023	<ul style="list-style-type: none">Revised rule 14 to always require D4543 to maintain accreditation for D7012Added rules 28 and 29
9/13/2024	<ul style="list-style-type: none">Updated the wording at the beginning regarding nonconformities, added Pozzolan to the table, added C490, and included footnote 30.
10/7/2024	<ul style="list-style-type: none">Added rules for C230 and included footnote 31.