



## AASHTO Accreditation Policy on Prerequisite Standards Required for Accreditation

### 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If accreditation is withdrawn, suspended, or revoked on the prerequisite standard in the left-hand column, there is a potential for additional action on the standards listed in the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 of the tables.

#### Asphalt Binder

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

#### Asphalt Mixture

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

**Asphalt Mixture (Continued)**

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

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

**Concrete, Cement, and Masonry (continued)**

<b>Prerequisite Standard</b>		<b>Affected Standard</b>
R39/C192	Making/Curing Concrete Specimens in the Laboratory	C1293 <sup>27</sup>
T119/C143	Slump of Hydraulic Cement Concrete	C1293 <sup>27</sup>
T121/C138	Density (Unit Weight), Yield, and Air Content	C1293 <sup>27</sup>

**Aggregate**

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

### Rock

Prerequisite Standard	Affected Standard
D4543      Preparation of Rock Core Specimens	D7012 <sup>14</sup>

### Soil

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

## Iron and Steel

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

## Quality Management Systems

Quality Standard	Required Methods
C1077 Practice for Agencies Testing Concrete and Concrete Aggregates	C117 <sup>16</sup> C127 <sup>16</sup> C128 <sup>16</sup> C136 <sup>16</sup> C31 <sup>16</sup> C39 <sup>16</sup> C138 <sup>16</sup> C143 <sup>16</sup> C172 <sup>16</sup> C173 or C231 <sup>16</sup> C617 or C1231 <sup>16</sup> C1064 <sup>16</sup>
D3666 Minimum Requirements for Agencies Testing and Inspecting Road and Paving Materials	Accreditation for at least 3 methods in the scope of testing <sup>17</sup>
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 <sup>18</sup>
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 through 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).

## Revision Updates

<b>Revision Date</b>	<b>Revision Summary</b>
1/24/2020	Original Publication
2/10/2020	<ul style="list-style-type: none"> <li>• Editorial Changes</li> <li>• Added the F3125 (Skidmore) as a requirement for E329 (Steel Inspection), rule 23</li> </ul>
6/16/2020	<ul style="list-style-type: none"> <li>• Editorial Changes</li> <li>• Added C780 (Annex 1) as a requirement or C780 (Annex 6), rule 24</li> <li>• Removed requirements for T164/D2172 when determining the mineral matter volumetrically.</li> </ul>
10/9/2020	<ul style="list-style-type: none"> <li>• Editorial Changes</li> <li>• Added C1552 as a requirement for C140 and C1314, rule 25</li> </ul>
8/6/2021	<ul style="list-style-type: none"> <li>• Editorial Changes</li> <li>• Added FM1-T180 as a requirement for FM5-515, rule 26</li> </ul>
1/18/2021	<ul style="list-style-type: none"> <li>• Editorial changes</li> <li>• Added D8159 as a means of extraction to perform T30/D5444</li> </ul>
4/19/2023	<ul style="list-style-type: none"> <li>• Added prerequisites for C1293, rule 27</li> </ul>
7/20/2023	<ul style="list-style-type: none"> <li>• Revised rule 14 to always require D4543 to maintain accreditation for D7012</li> <li>• Added rules 28 and 29</li> </ul>