

**Construction Manual – Section 6-102C Acceptance Samples and Tests**

**Table 6-1.2  
Time Required for Materials Acceptance Tests**

<b>Material/Test</b>	<b>Sample to Lab (Note 1) (business days)</b>	<b>Lab Time Priority (Note 2) (business days)</b>	<b>Lab Time Normal (Note 2) (business days)</b>	<b>Reporting to Contractor (Note 3) (business days)</b>	<b>Total (business days)</b>
<b>SOILS</b>					
• Gradation (CT 202)	1 to 2	1	3	2	4 to 7
• Sand Equivalent (CT 217)	1 to 2	1	3	2	4 to 7
• Relative Compaction (CT 231/216)	1 to 2	1	2	2	4 to 6
• Plasticity Index (Geosynthetic Reinforced Embankment)	1 to 2	3	7	2	6 to 11
• pH (Geosynthetic Reinforced Embankment)	1 to 2	2	3	2	5 to 7
• Percentage Crushed Particles (Shoulder Backing – CT 205)	1 to 2	2	5	2	5 to 9
• Durability Index (Shoulder Backing – CT 229)	1 to 2	2	5	2	5 to 9
• R-value (Imported borrow – CT 301)	1 to 2	4	6	2	7 to 10
<b>SUBBASES AND BASES</b>					
• Relative Compaction (CT 231/216)	1 to 2	1	2	2	4 to 6
• Gradation (CT 202)	1 to 2	1	3	2	4 to 7
• Sand Equivalent (CT 217)	1 to 2	1	3	2	4 to 7
• R-value (CT 301)	1 to 2	4	6	2	7 to 10
• Durability Index (CT 229)	1 to 2	2	5	2	5 to 9
• Compressive Strength (CTB aggregate – CT 312)	-	Age based	Age based	2	Age +2
• Compressive Strength (LCB – ASTM C39)	-	Age based	Age based	2	Age +2
• Compressive Strength (LCB – rapid setting – CT 521)	-	Age based	Age based	2	Age +2
• Modulus of Rupture (Concrete base – CT 523)	-	Age based	Age based	2	Age +2
• Modulus of Rupture (Rapid strength concrete base – CT 524)	-	Age based	Age based	2	Age +2
• Percentage of Crushed Particles (CT 205)	1 to 2	2	5	2	5 to 9
• Los Angeles Rattler (CT 211)	1 to 2	2	4	2	5 to 8
• Cleanness Value (CT 227)	1 to 2	2	3	2	5 to 7
• Film Stripping (CT 302)	1 to 2	2	7	2	5 to 11
• Asphalt Content (ATPB – CT 382)	1 to 2	1	5	2	4 to 9
• Soundness (CTPB – CT 214)	1 to 2	8	10	2	11 to 14
<b>BITUMINOUS SEALS</b>					
• Los Angeles Rattler (CT 211)	1 to 2	2	4	2	5 to 8
• Percentage of Crushed Particles (CT 205)	1 to 2	2	5	2	5 to 9
• Film Stripping (CT 302)	1 to 2	2	7	2	5 to 11
• Gradation (CT 202)	1 to 2	1	3	2	4 to 7
• Gradation (ASTM C136)	1 to 2	1	3	2	4 to 7
• Cleanness Value (CT 227)	1 to 2	2	3	2	5 to 7

**Table 6-1.2**  
**Time Required for Materials Acceptance Tests (continued)**

<b>Material/Test</b>	<b>Sample to Lab (Note 1) (business days)</b>	<b>Lab time Priority (Note 2) (business days)</b>	<b>Lab time Normal (Note 2) (business days)</b>	<b>Reporting to Contractor (Note 3) (business days)</b>	<b>Total (business days)</b>
<b>BITUMINOUS SEALS (continued)</b>					
• Durability Index (CT 229)	1 to 2	2	5	2	5 to 9
• Sand Equivalent (CT 217)	1 to 2	1	3	2	4 to 7
• Viscosity (AASHTO T 59)	1 to 2	3	15	2	6 to 19
• Viscosity (ASTM D7741)	1 to 2	3	15	2	6 to 19
• Viscosity (ASTM D445)	1 to 2	3	15	2	6 to 19
• Flash Point (ASTM D92)	1 to 2	3	15	2	6 to 19
• Asphaltenes (ASTM D2007)	1 to 2	7	15	2	10 to 19
• Aromatics (ASTM D2007)	1 to 2	7	15	2	10 to 19
• Cone Penetration (ASTM D217)	1 to 2	3	15	2	6 to 19
• Resilience (ASTM D5329)	1 to 2	3	15	2	6 to 19
• Settlement (AASHTO T 59)	1 to 2	7	30	2	10 to 34
• Sieve Test (AASHTO T 59)	1 to 2	3	15	2	6 to 19
• Demulsibility (AASHTO T 59)	1 to 2	3	15	2	6 to 19
• Torsional Recovery (AASHTO T 59 – CT 332)	1 to 2	3	15	2	6 to 19
• Penetration (AASHTO T 49)	1 to 2	3	15	2	6 to 19
• Ring and Ball Softening Point Temperature (AASHTO T 53)	1 to 2	3	15	2	6 to 19
• Field Softening Point (ASTM D36)	1 to 2	3	15	2	6 to 19
• Elastic Recovery (AASHTO T 301)	1 to 2	4	15	2	7 to 19
• Ductility (AASHTO T 51)	1 to 2	4	15	2	7 to 19
• BBR (AASHTO T 313)	1 to 2	5	8	2	8 to 12
<b>HMA</b>					
• Gradation (AASHTO T 27)	1 to 2	1	3	2	4 to 7
• Sand Equivalent (AASHTO T 176)	1 to 2	1	3	2	4 to 7
• Los Angeles Rattler (AASHTO T 96)	1 to 2	2	4	2	5 to 8
• Percent of Crushed Particles (Coarse) (AASHTO T 335)	1 to 2	2	5	2	5 to 9
• Percent of Crushed Particles (Fine) (AASHTO T 335)	1 to 2	2	5	2	5 to 9
• Flat and Elongated Particles (ASTM D4791)	1 to 2	2	4	2	5 to 8
• Fine Aggregate Angularity (AASHTO T 304, Method A)	1 to 2	2	4	2	5 to 8
• Asphalt Binder					
• Flash Point (AASHTO T 48)	1 to 2	3	15	2	6 to 19
• Solubility (AASHTO T 44)	1 to 2	3	15	2	6 to 19
• Viscosity (AASHTO T 316)	1 to 2	3	15	2	6 to 19
• Dynamic Shear – Original Phase (AASHTO T 315)	1 to 2	3	15	2	6 to 19
• Dynamic Shear – RTFO Phase (AASHTO T 315)	1 to 2	4	15	2	7 to 19
• Dynamic Shear – PAV Phase (AASHTO T 315)	1 to 2	5	15	2	8 to 19
• RTFO Test (AASHTO T 240)	1 to 2	3	15	2	6 to 19
• Ductility (AASHTO T 51)	1 to 2	3	15	2	6 to 19
• Elastic Recovery (AASHTO T 301)	1 to 2	3	15	2	6 to 19
• PAV (AASHTO R 28)	1 to 2	4	15	2	7 to 19

**Table 6-1.2**  
**Time Required for Materials Acceptance Tests (continued)**

<b>Material/Test</b>	<b>Sample to Lab (Note 1) (business days)</b>	<b>Lab time Priority (Note 2) (business days)</b>	<b>Lab time Normal (Note 2) (business days)</b>	<b>Reporting to Contractor (Note 3) (business days)</b>	<b>Total (business days)</b>
<b>HMA (continued)</b>					
• Creep and Stiffness (AASHTO T 313)	1 to 2	5	15	2	8 to 19
• Binder Recovery (AASHTO T164 / ASTM D1856)	1 to 2	2	15	2	5 to 19
• Binder Recovery (AASHTO R 59)	1 to 2	4	15	2	7 to 19
• Asphalt Rubber Binder					
• Cone Penetration (ASTM D217)	1 to 2	4	15	2	7 to 19
• Resilience (ASTM D5329)	1 to 2	4	15	2	7 to 19
• Softening Point (ASTM D36)	1 to 2	3	15	2	6 to 19
• Viscosity (ASTM D7741)	1 to 2	3	15	2	6 to 19
• Asphalt Modifier properties (ASTM D445, ASTM D92, ASTM D2007)	1 to 2	3	15	2	6 to 19
• Crumb Rubber Modifier (CRM) properties (CT 208, CT 385, ASTM D297)	1 to 2	7	30	2	10 to 34
• Hot Mix Asphalt Mix					
• Moisture Content (AASHTO T 329)	1 to 2	2	5	2	5 to 9
• Asphalt Binder Content (AASHTO T 308, Method A)	1 to 2	2	5	2	5 to 9
• Hamburg Wheel Track (AASHTO T 324 [Modified])	1 to 2	7	30	2	10 to 34
• Bulk Specific Gravity (AASHTO 275)	1 to 2	2	7	2	5 to 11
• Maximum Theoretical Density (AASHTO T 209)	1 to 2	2	7	2	5 to 11
• Air Void Content (AASHTO T 269)	1 to 2	2	7	2	5 to 11
• Voids in Mineral Aggregate (SP-2 Asphalt Mixture Volumetrics)	1 to 2	3	7	2	6 to 11
• Dust Proportion (SP-2 Asphalt Mixture Volumetrics)	1 to 2	3	7	2	6 to 11
• Moisture Susceptibility (AASHTO T 283)	1 to 2	9	30	2	12 to 34
• Inertial Profiler for Mean Profile Index and Areas of Localized Roughness (CT 387, AASHTO R 56 and R 57)	1 to 2	3	7	2	6 to 11
<b>CONCRETE PAVEMENT</b>					
• Los Angeles Rattler (CT 211)	1 to 2	2	4	2	5 to 8
• Cleanness Value (CT 227)	1 to 2	2	3	2	5 to 7
• Gradation (CT 202)	1 to 2	1	3	2	4 to 7
• Sand Equivalent (CT 217)	1 to 2	1	3	2	4 to 7
• Modulus of Rupture (CT 523)	-	Age based	Age based	2	Age +2
• Thickness (CT 531)	2	2	7	2	6 to 11
• Dowel bar alignment & concrete consolidation ( )	2	2	5	2	6 to 10
• Tie bar alignment and concrete consolidation ( )	2	2	5	2	6 to 10
• Coefficient of Friction (CT 342)	7*	2	5	2	11 to 14
• Inertial Profiler (AASHTO R 56 & R 57)	7*	3	7	2	12 to 16

**Table 6-1.2**  
**Time Required for Materials Acceptance Tests** (continued)

<b>Material/Test</b>	<b>Sample to Lab (Note 1) (business days)</b>	<b>Lab time Priority (Note 2) (business days)</b>	<b>Lab time Normal (Note 2) (business days)</b>	<b>Reporting to Contractor (Note 3) (business days)</b>	<b>Total (business days)</b>
<b>CONCRETE STRUCTURES</b>					
• Los Angeles Rattler (CT 211)	1 to 2	2	4	2	5 to 8
• Cleanness Value (CT 227)	1 to 2	2	3	2	5 to 7
• Gradation (CT 202)	1 to 2	1	3	2	4 to 7
• Sand Equivalent (CT 217)	1 to 2	1	3	2	4 to 7
• Compressive Strength (CT 521)	-	Age based	Age based	2	Age +2
<b>SECTION 90</b>					
• Gradation (CT 202)	1 to 2	1	3	2	4 to 7
• Cement (Various)	1 to 2	35	60	2	38 to 64
• Supplementary Cementitious Materials (Various)	1 to 2	35	60	2	38 to 64
• Shrinkage (AASHTO T 160)	1 to 2	42	60	2	45 to 64

Notes:

1. Time to testing laboratory begins from time of sampling and includes any required field curing time and time required for transport to the testing laboratory.
2. Time in laboratory begins from time laboratory receives the sample and includes any required laboratory curing time prior to testing and time required to prioritize samples. This time also includes the lab manager's review of test results and the time to notify the resident engineer.
3. Reporting time is the time from when the test is provided to the resident engineer to when the contractor is notified of the test results.