

SUMMARY OF 2021 AASHTO MATERIALS STANDARDS

INCLUDES 12 NEW AND 52 REVISED STANDARDS

DESIGNATION NUMBER	TITLE	TECHNICAL SECTION NUMBER	BALLOTTED REVISIONS
NEW STANDARDS (12)			
MP 47-21	File Format of Two-Dimensional and Three-Dimensional (2D/3D) Pavement Image Data	5a	New provisional specification
PP 106-21	Assessment of Static Performance in Transverse Pavement Profiling Systems	5a	New provisional practice
PP 107-21	Assessment of Body Motion Cancellation in Transverse Pavement Profiling Systems	5a	New provisional practice
PP 108-21	Assessment of Navigation Drift Mitigation in Transverse Pavement Profiling Systems	5a	New provisional practice
PP 109-21	Assessment of Highway Performance in Transverse Pavement Profiling Systems	5a	New provisional practice
PP 110-21	Assessment of Ground Reference Data for Transverse Pavement Profiling System Assessment	5a	New provisional practice
PP 111-21	Definition of Terms Related to Transverse Pavement Profiling Systems and Ground Reference Equipment	5a	New provisional practice
PP 112-21	Recognizing Surrogate Test Methods	5c	New provisional practice
PP 113-21	Characterizing the Relaxation Behavior of Asphalt Binders Using the Delta T_c (ΔT_c) Parameter	2b	New provisional practice
TP 142-21	Accelerated Determination of Potentially Deleterious Expansion of Concrete Cylinder due to Alkali-Silica Reactivity	3c	New provisional test
TP 143-21	Continuous Measurement of Sideway-Force Friction Number for Highway Pavements	5a	New provisional test
TP 144-21	Determining the Potential Alkali-Silica Reactivity of Coarse Aggregates (TFHRC-TFAST)	1c	New provisional test

DESIGNATION NUMBER	TITLE	TECHNICAL SECTION NUMBER	BALLOTTED REVISIONS
REVISED STANDARDS (52)			
M 31M/M 31-21	Deformed and Plain Carbon and Low-Alloy Steel Bars for Concrete Reinforcement	4f	
M 33M/M 33-21	Preformed Expansion Joint Filler for Concrete (Bituminous Type)	4e	
M 85-21	Portland Cement	4a	
M 199M/M 199-21	Precast Reinforced Concrete Manhole Sections	4a	
M 201-21	Mixing Rooms, Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the Testing of Hydraulic Cements and Concretes	3a	
M 213-21	Preformed Expansion Joint Fillers for Concrete Paving and Structural Construction (Nonextruding and Resilient Bituminous Types)	4e	
M 216-21	Quicklime and Hydrated Lime for Soil Stabilization	3a	
M 240M/M 240-21	Blended Hydraulic Cement	3a	
M 252-21	Corrugated Polyethylene Drainage Pipe		
M 288-21	Geosynthetic Specification for Highway Applications	4e	
M 294-21	Corrugated Polyethylene Pipe, 300- to 1500-mm (12- to 60-in.) Diameter	4d	
M 295-21	Coal Fly Ash and Raw or Calcined Natural Pozzolan for Use in Concrete	3b	
M 300-21	Inorganic Zinc-Rich Primer	4c	
M 320-21	Performance-Graded Asphalt Binder	2b	
M 332-21	Performance-Graded Asphalt Binder Using Multiple Stress Creep Recovery (MSCR) Test	2b	
M 337-21	Fiber-Reinforced Polymer Composite Materials for Highway and Bridge Structures	5b	Formerly MP 22
M 338-21	Performance-Graded Hot-Poured Asphalt Crack Sealant	4e	Formerly MP 25
PP 84-21	Developing Performance Engineered Concrete Pavement Mixtures	3c	

DESIGNATION NUMBER	TITLE	TECHNICAL SECTION NUMBER	BALLOTTED REVISIONS
PP 91-21	Emulsified Asphalt Scrub Seal Design	5b	
PP 103-21	Sample Preparation and Polishing of Unbound Aggregates for Dynamic Friction Testing	1c	
PP 104-21	Sample Preparation and Polishing of Asphalt Mixture Specimens for Dynamic Friction Testing	1c	
R 28-21	Accelerated Aging of Asphalt Binder Using a Pressurized Aging Vessel (PAV)	2b	
R 36-21	Evaluating Faulting of Concrete Pavements	5a	
R 99-21	Troubleshooting Asphalt Specimen Volumetric Differences between Superpave Gyrotory Compactors (SCGs) Used in the Design and the Field Management of Superpave Mixtures	2d	Formerly PP 76
R 100-21	Making and Curing Concrete Test Specimens in the Field	3b	Formerly T 23
T 30-21	Mechanical Analysis of Extracted Aggregate	2c	
T 85-21	Specific Gravity and Absorption of Coarse Aggregate	1c	
T 99-21	Moisture-Density Relations of Soils Using a 2.5-kg (5.5-lb) Rammer and a 305-mm (12-in.) Drop	1b	
T 105-21	Chemical Analysis of Hydraulic Cement	3a	
T 106M/T 106-21	Compressive Strength of Hydraulic Cement Mortar (Using 50-mm or 2-in. Cube Specimens)	3a	
T 111-21	Mineral Matter or Ash in Asphalt Materials	2b	
T 112-21	Clay Lumps and Friable Particles in Aggregate	1c	
T 137-21	Air Content of Hydraulic Cement Mortar	3a	
T 161-21	Resistance of Concrete to Rapid Freezing and Thawing	3c	
T 166-21	Bulk Specific Gravity (Gmb) of Compacted Asphalt Mixtures Using Saturated Surface-Dry Specimens	2c	
T 180-21	Moisture-Density Relations of Soils Using a 4.54-kg (10-lb) Rammer and a 457-mm (18-in.) Drop	1b	
T 185-21	Early Stiffening of Hydraulic Cement (Mortar Method)	3a	

DESIGNATION NUMBER	TITLE	TECHNICAL SECTION NUMBER	BALLOTTED REVISIONS
T 240-21	Effect of Heat and Air on a Moving Film of Asphalt Binder (Rolling Thin-Film Oven Test)	2b	
T 260-21	Sampling and Testing for Chloride Ion in Concrete and Concrete Raw Materials	3c	
T 277-21	Electrical Indication of Concrete's Ability to Resist Chloride Ion Penetration	3c	
T 283-21	Resistance of Compacted Asphalt Mixtures to Moisture-Induced Damage	2d	
T 308-21	Determining the Asphalt Binder Content of Asphalt Mixtures by the Ignition Method	2c	
T 331-21	Bulk Specific Gravity (Gmb) and Density of Compacted Asphalt Mixtures Using Automatic Vacuum Sealing Method	2c	
T 358-21	Surface Resistivity Indication of Concrete's Ability to Resist Chloride Ion Penetration	3c	
T 383-21	Evaluation of Asphalt Release Agents (ARAs)	2b	
T 392-21	Determination of Heavy Metal Content of Glass Beads Using X-Ray Fluorescence (XRF)	4c	Formerly TP 106
T 393-21	Determining the Fracture Potential of Asphalt Mixtures Using the Illinois Flexibility Index Test (I-FIT)	2d	Formerly TP 124
T 394-21	Determining the Fracture Energy of Asphalt Mixtures Using the Semicircular Bend Geometry (SCB)	2d	Formerly TP 105
TP 112-21	Determining In-Place Density and Moisture Content of Soil and Soil-Aggregate Using Complex Impedance Methodology	1b	
TP 119-21	Electrical Resistivity of a Concrete Cylinder Tested in a Uniaxial Resistance Test	3c	
TP 129-21	Vibrating Kelly Ball (VKelly) Penetration in Fresh Portland Cement Concrete	3c	

DESIGNATION NUMBER	TITLE	TECHNICAL SECTION NUMBER	BALLOTTED REVISIONS
TP 133-21	Determining the Damage Characteristic Curve and Failure Criterion Using Small Specimens in the Asphalt Mixture Performance Tester (AMPT) Cyclic Fatigue Test	2d	
GLOBAL EDITORIAL REVISION			
R 18 qualifying statement added to all tests and provisional tests			