

# AASHTO MATERIALS STANDARDS, 2024 EDITION

## LIST OF NEW AND REVISED STANDARDS

Below is a summary of the **8 new and 84 revised standards** contained in the 2024 edition of the AASHTO Materials Standards.

### NEW STANDARDS: 8

DESIGNATION #	TITLE
M 355M/M 355-24	Geosynthetic Pavement Interlayers for Highway Applications <i>(New Standard Specification)</i>
R 121-24	Long-Term Laboratory Conditioning of Asphalt Mixtures <i>(New Standard Practice)</i>
T 412-24	Real-Time Estimate of In-Place Concrete Strength Using Acoustical Resonance Method <i>(New Standard Test Method)</i>
T 413-24	Estimating the Early Opening Strength of Concrete Pavements by Maturity Tests <i>(New Standard Test Method)</i>
T 414-24	Determining the Dielectric Constant of Compacted Asphalt Mixture Specimens <i>(New Standard Test Method)</i>
T 416-24	Determination of Alkali Threshold for Alkali-Silica Reactivity in Aggregates Used in Concrete (ATT) <i>(New Standard Test Method)</i>
PP 118-24	AASHTO Definitions Standard for Sustainability Terms <i>(New Provisional Practice)</i>
TP 145-24	Evaluating Rutting and Moisture Resistance of Paving Materials via Loaded Wheel Tracking with a Rubber Tire <i>(New Provisional Test Method)</i>

REVISED STANDARDS: 84

DESIGNATION #	TITLE
M 31M/M 31-24	Deformed and Plain Carbon and Low-Alloy Steel Bars for Concrete Reinforcement
M 36M/M 36-24	Corrugated Steel Pipe, Metallic-Coated, for Sewers and Drains
M 85-24	Portland Cement
M 154M/M 154-24	Air-Entraining Admixtures for Concrete
M 157-24	Ready-Mixed Concrete
M 163M/M 163-24	Castings, Iron-Chromium, Iron-Chromium-Nickel, Corrosion Resistant, for General Application
M 167M/M 167-24	Corrugated Steel Structural Plate, Zinc-Coated, for Field-Bolted Pipe, Pipe-Arches, and Arches
M 170-24	Reinforced Concrete Culvert, Storm Drain, and Sewer Pipe
M 170M-24	Reinforced Concrete Culvert, Storm Drain, and Sewer Pipe [Metric]
M 196M/M 196-24	Corrugated Aluminum Pipe for Sewers and Drains
M 197M/M 197-24	Aluminum Alloy Sheet for Corrugated Aluminum Pipe
M 199M/M 199-24	Precast Reinforced Concrete Manhole Sections
M 204M/M 204-24	Stress-Relieved Steel Wire for Prestressed Concrete
M 206M/M 206-24	Reinforced Concrete Arch Culvert, Storm Drain, and Sewer Pipe
M 207M/M 207-24	Reinforced Concrete Elliptical Culvert, Storm Drain, and Sewer Pipe
M 219M/M 219-24	Corrugated Aluminum Alloy Structural Plate for Field-Bolted Pipe, Pipe-Arches, and Arches
M 235M/M 235-24	Epoxy Resin Adhesives
M 237-24	Epoxy Resin Adhesives for Bonding Traffic Markers to Hardened Portland Cement and Asphalt Concrete
M 240M/M 240-24	Blended Hydraulic Cement
M 245M/M 245-24	Corrugated Steel Pipe, Polymer-Precoated, for Sewers and Drains
M 246M/M 246-24	Steel Sheet, Metallic-Coated and Polymer-Precoated, for Corrugated Steel Pipe
M 252-24	Corrugated Polyethylene Pipe, 75- to 250-mm (3- to 10-in.) Diameter

<b>DESIGNATION #</b>	<b>TITLE</b>
M 259-24	Precast Reinforced Concrete Monolithic Box Sections for Culverts, Storm Drains, and Sewers According to the AASHTO LRFD Bridge Design Specifications
M 280-24	Metallic-Coated (Carbon) Steel Barbed Wire
M 281-24	Steel Fence Posts, Hot-Wrought
M 285M/M 285-24	Castings, Iron-Chromium-Nickel, Corrosion Resistant, for Severe Service
M 288M/M 288-24	Geosynthetics for Highway Applications
M 292M/M 292-24	Carbon Steel, Alloy Steel, and Stainless Steel Nuts for Bolts for High-Pressure or High-Temperature Service, or Both
M 295-24	Coal Ash and Raw or Calcined Natural Pozzolan for Use in Concrete
M 302-24	Slag Cement for Use in Concrete and Mortars
M 336M/M 336-24	Steel Wire and Welded Wire, Plain and Deformed, for Concrete Reinforcement
M 345-24	Materials for Emulsified Asphalt Scrub Seal
M 351M/M 351-24	Cotton Duck Fabric Bridge Bearings
M 353-24	Thin Overlay Treatments Using a Binder Resin System and Aggregate for Concrete Surfaces
M 354-24	High Friction Surface Treatment for Asphalt and Concrete Pavements Using Calcined Bauxite
R 30-24	Short-Term Laboratory Conditioning of Asphalt Mixtures
R 59-24	Recovery of Asphalt Binder from Solution by Abson Method
R 71-24	Sampling and Amount of Testing of Hydraulic Cement
R 75-24	Developing Soil Moisture-Density Relations
R 119M/R 119-24	Grinding the Ends of Cylindrical Concrete Specimens
R 120-24	Preparation of Test Specimens Using the Plastic Mold Compaction Device
T 11-24	Materials Finer Than 75- $\mu$ m (No. 200) Sieve in Mineral Aggregates by Washing
T 19M/T 19-24	Bulk Density ("Unit Weight") and Voids in Aggregate
T 27-24	Sieve Analysis of Fine and Coarse Aggregates
T 30-24	Mechanical Analysis of Extracted Aggregate

DESIGNATION #	TITLE
T 65M/T 65-24	Mass [Weight] of Coating on Iron and Steel Articles with Zinc or Zinc-Alloy Coatings
T 105-24	Chemical Analysis of Hydraulic Cement
T 121M/T 121-24	Density (Unit Weight), Yield, and Air Content (Gravimetric) of Concrete
T 152-24	Air Content of Freshly Mixed Concrete by the Pressure Method
T 164-24	Quantitative Extraction of Asphalt Binder from Asphalt Mixtures
T 166-24	Bulk Specific Gravity (Gmb) of Compacted Asphalt Mixtures Using Saturated Surface-Dry Specimens
T 213M/T 213-24	Mass [Weight] of Coating on Aluminum-Coated Iron or Steel Articles
T 221M/T 221-24	Repetitive Static Plate Tests of Soils and Flexible Pavement Components for Use in Evaluation and Design of Airport and Highway Pavements
T 244-24	Mechanical Testing of Steel Products
T 253M/T 253-24	Coated Dowel Bars
T 269-24	Percent Air Voids in Compacted Dense and Open Asphalt Mixtures
T 278-24	Surface Frictional Properties Using the British Pendulum Tester
T 280M/T 280-24	Concrete Pipe, Manhole Sections, or Tile
T 281-24	Vitrified Clay Pipe
T 282M/T 282-24	Calibrating a Wheel Force or Torque Transducer Using a Calibration Platform (User Level)
T 285M/T 285-24	Bend Test for Bars for Concrete Reinforcement
T 308-24	Determining the Asphalt Binder Content of Asphalt Mixtures by the Ignition Method
T 315-24	Determining the Rheological Properties of Asphalt Binder Using a Dynamic Shear Rheometer (DSR)
T 358-24	Surface Resistivity Indication of Concrete's Ability to Resist Chloride Ion Penetration
T 376M/T 376-24	Macrocell Slab Chloride Threshold
T 395-24	Characterization of the Air-Void System of Freshly Mixed Concrete by the Sequential Pressure Method
T 397-24	Uniaxial Tensile Response of Ultra-High Performance Concrete
T 400-24	Determining the Damage Characteristic Curve and Failure Criterion Using the Asphalt Mixture Performance Tester (AMPT) Cyclic Fatigue Test

<b>DESIGNATION #</b>	<b>TITLE</b>
T 402-24	Electrical Resistivity of a Concrete Cylinder Tested in a Uniaxial Resistance Test
T 411-24	Determining the Damage Characteristic Curve and Failure Criterion Using Small Specimens in the Asphalt Mixture Performance Tester (AMPT) Cyclic Fatigue Test
T 415-24	Weight and Diameter for Carbon-Steel for Steel Wire and Welded Wire Reinforcement for Concrete
T 417-24	Pore Index for Carbonate Coarse Aggregate
T 418-24	Measuring Asphalt Binder Yield Energy and Elastic Recovery Using the Dynamic Shear Rheometer
T 419-24	Determining the Flexural Creep Stiffness of Asphalt Mixtures Using the Bending Beam Rheometer (BBR)
MP 46-24	Balanced Mix Design
MP 47-24	File Format of Two-Dimensional and Three-Dimensional (2D/3D) Pavement Image Data
PP 105-24	Balanced Design of Asphalt Mixtures
PP 106-24	Assessment of Static Performance in Transverse Pavement Profiling Systems
PP 107-24	Assessment of Body Motion Cancellation in Transverse Pavement Profiling Systems
PP 108-24	Assessment of Navigation Drift Mitigation in Transverse Pavement Profiling Systems
PP 109-24	Assessment of Highway Performance in Transverse Pavement Profiling Systems
PP 110-24	Assessment of Ground Reference Data for Transverse Pavement Profiling System Assessment
PP 111-24	Definition of Terms Related to Transverse Pavement Profiling Systems and Ground Reference Equipment
TP 142M/TP 142-24	Accelerated Determination of Potentially Deleterious Expansion of Concrete Cylinder due to Alkali-Silica Reaction (Accelerated Concrete Cylinder Test, ACCT)