



Standard Specification for Hot-Mixed, Hot-Laid Bituminous Paving Mixtures¹

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1. Scope

1.1 This specification covers hot-mixed, hot-laid asphalt, tar, emulsified asphalt, and recycled bituminous paving mixtures for base, binder, leveling, and surface courses.

1.2 The values stated in inch-pound units are to be regarded as the standard. The SI units in parentheses are for information only.

1.3 *This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.*

2. Referenced Documents

2.1 ASTM Standards:

- C 127 Test Method for Specific Gravity and Absorption of Coarse Aggregate²
- C 128 Test Method for Specific Gravity and Absorption of Fine Aggregate²
- C 136 Test Method for Sieve Analysis of Fine and Coarse Aggregates²
- D 5 Test Method for Penetration of Bituminous Materials³
- D 8 Terminology Relating to Materials for Roads and Pavements
- D 75 Practice for Sampling Aggregates³
- D 140 Practice for Sampling Bituminous Materials³
- D 242 Specification for Mineral Filler for Bituminous Paving Mixtures³
- D 448 Classification for Sizes of Aggregate for Road and Bridge Construction³
- D 490 Specification for Road Tar³
- D 546 Test Method for Sieve Analysis of Mineral Filler for Road and Paving Materials³
- D 692 Specification for Coarse Aggregate for Bituminous Paving Mixtures³
- D 946 Specification for Penetration-Graded Asphalt Cement for Use in Pavement Construction³
- D 977 Specification for Emulsified Asphalt³

D 979 Test Methods for Sampling Bituminous Paving Mixtures³

D 995 Specification for Mixing Plants for Hot-Mixed, Hot-Laid Bituminous Paving Mixtures³

D 1073 Specification for Fine Aggregate for Bituminous Paving Mixtures³

D 1856 Test Method for Recovery of Asphalt from Solution by Abson Method³

D 2171 Test Method for Viscosity of Asphalts by Vacuum Capillary Viscometer³

D 2172 Test Method for Quantitative Extraction of Bitumen from Bituminous Paving Mixtures³

D 2489 Test Method for Degree of Particle Coating of Bituminous-Aggregate Mixtures³

D 3381 Specification for Viscosity-Graded Asphalt Cement for Use in Pavement Construction³

D 4318 Test Method for Liquid Limit, Plastic Limit, and Plasticity Index of Soils⁴

D 4552 Practice for Classifying Hot-Mix Recycling Agents³

3. Terminology

3.1 Definitions are in accordance with Terminology D 8.

3.2 *Definitions:*

3.2.1 *bitumen aggregate for recycling*—bituminous pavement or paving mixture removed from its original location and reduced by suitable means to such particle size as may be required for use in hot-mixed, hot-laid recycled bituminous paving mixtures.

NOTE 1—Alternative terminology may be used for bitumen aggregate for recycling so long as the terms are defined or understood to refer to the same material. Reclaimed asphalt pavement (RAP) that has been removed from its original location and reduced in size as may be required.

3.2.2 *hot-mixed, hot-laid paving mixtures*—mixtures of coarse and fine aggregate or fine aggregate alone, with or without mineral filler, uniformly mixed with asphalt, tar, or emulsified asphalt.

3.2.3 *hot-mixed, hot-laid recycled bituminous paving mixtures*—mixtures of bitumen aggregate for recycling with or without mineral aggregates and mineral filler, mixed at elevated temperatures with or without additional bitumen.

¹ This specification is under the jurisdiction of ASTM Committee D-4 on Road and Paving Materials and is the direct responsibility of Subcommittee D04.23 on Plant-Mix Bituminous Surfaces and Bases.

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² Annual Book of ASTM Standards, Vol 04.02.

³ Annual Book of ASTM Standards, Vol 04.03.

⁴ Annual Book of ASTM Standards, Vol 04.08.