
Standard Specification for Reclaimed Asphalt Shingles for Use in Asphalt Mixtures

AASHTO Designation: M 350-22¹

Adopted: 2022

**Technical Subcommittee: 2d, Proportioning
of Asphalt–Aggregate Mixtures**



**American Association of State Highway and Transportation Officials
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1. SCOPE

- 1.1. This specification covers reclaimed asphalt shingle material used in asphalt mixtures. The use of reclaimed asphalt shingles in other recycling applications such as hot-in-place pavements and cold recycled pavements is not included in this specification.

Note 1—Refer to R 114, Design Considerations When Using Reclaimed Asphalt Shingles (RAS) in Asphalt Mixtures, for information on design considerations, determining shingle aggregate gradation, and the grade of the binder.

2. REFERENCED DOCUMENTS

- 2.1. *AASHTO Standards:*
- < R 90, Sampling Aggregate Products
 - < R 114, Design Considerations When Using Reclaimed Asphalt Shingles (RAS) in Asphalt Mixtures
 - < T 27, Sieve Analysis of Fine and Coarse Aggregates

3. TERMINOLOGY

- 3.1. *Definitions:*
- 3.1.1. *aggregate*—coarse and fine aggregate introduced into asphalt mixtures that is exclusive of the shingle aggregate.
- 3.1.2. *coarse and fine aggregate*—see T 27 for definitions.
- 3.1.3. *manufactured shingle waste*—rejected asphalt shingles or shingle tabs that are discarded in the manufacturing process of new asphalt shingles.
- 3.1.4. *postconsumer asphalt shingles*—asphalt shingles that are removed from the roofs of residential dwellings or commercial buildings. Postconsumer asphalt shingles are often called “tear-off” shingles.
- 3.1.5. *reclaimed asphalt shingles (RAS)*—manufactured shingle waste or postconsumer asphalt shingles that have been processed into a product that meets the requirements of this standard.
- 3.1.6. *RAS asphalt binder*—asphalt binder that is present in the reclaimed asphalt shingles.