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Standard Specification for Asphaltic Plug Joints for Bridges¹

This standard is issued under the fixed designation D 6297; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ϵ) indicates an editorial change since the last revision or reapproval.

1. Scope

1.1 This specification covers the material, testing and application requirements for a field molded asphaltic plug joint (APJ) used in expansion joint sealing on asphalt concrete overlay and portland cement concrete decks. The scope of this specification is limited to field molded APJ. This molded element can consist of multilayer, or single layer, or both, application systems depending upon individual manufacturing requirements. The details of this specification are limited to the materials used in the application of APJ. It is recommended that a practical means of testing the watertightness aspects of the individual systems, either in the field or at the testing laboratory, be developed. When used on highway bridges, limits on maximum joint movements shall be specifically identified for each type of APJ. APJs should not be used for movement applications exceeding ± 25 mm from the installation width.

1.2 The values stated in SI units are to be regarded as the standard. The values given in parentheses are provided 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:²

A 36/A 36M ~~Specification for Carbon Structural Steel~~ Specification for Carbon Structural Steel

B 209 Specification for Aluminum and Aluminum-Alloy Sheet and Plate

D 5 Test Method for Penetration of Bituminous Materials

~~D 36 Test Method for Software Point of Bitumen~~ Test Method for Softening Point of Bitumen (Ring-and-Ball Apparatus)

D 113 Test Method for Ductility of Bituminous Materials

D 217 Test Methods for Cone Penetration of Lubricating Grease

~~D 3405 Specification~~ Test Methods for Joint Sealants, Hot-Applied, for Concrete and Asphalt Pavements³

D 3407 Test Methods for Joint Sealants, Hot-Poured, for Concrete and Asphalt Pavements³

D 5167 Practice for Melting of Hot-Applied Joint and Crack Sealant and Filler for Evaluation

D 5249 Specification for Backer Material for Use with Cold- and Hot-Applied Joint Sealants in Portland-Cement Concrete and Asphalt Joints

D 5329 Test Methods for Sealants and Fillers, Hot-Applied, for Joints and Cracks in Asphaltic and Portland Cement Concrete Pavements

3. Terminology

3.1 Acronyms:

3.1.1 APJ—Asphaltic Plug Joint.

3.1.2 AB—Asphaltic Binder.

4. Material

4.1 The AB shall be a thermoplastic polymeric-modified asphalt conforming to the physical properties in Table 1.

¹ This specification is under the jurisdiction of ASTM Committee D04 on Road and Paving Materials and is the direct responsibility of Subcommittee D04.32 on Bridges and Structures.

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² For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For *Annual Book of ASTM Standards*, Vol 01.04, volume information, refer to the standard's Document Summary page on the ASTM website.

³ Annual Book of ASTM Standards, Vol 02.02.

³ Withdrawn.