



Designation: D4383 – 18

Standard Specification for Plowable, Raised Retroreflective Pavement Markers¹

This standard is issued under the fixed designation D4383; 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 a type of plowable, retroreflective, raised pavement marker for lane marking and delineation.

1.2 Retroreflective markers are intended for nighttime visibility.

1.3 The values stated in inch-pound units are to be regarded as the standard, except where noted in the document. The values given in parentheses are mathematical conversions to SI units that are provided for information only and are not considered standard.

1.4 The following precautionary caveat pertains only to the test methods portion, Section 10, of this specification: *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, health, and environmental practices and determine the applicability of regulatory limitations prior to use.*

1.5 *This international standard was developed in accordance with internationally recognized principles on standardization established in the Decision on Principles for the Development of International Standards, Guides and Recommendations issued by the World Trade Organization Technical Barriers to Trade (TBT) Committee.*

2. Referenced Documents

2.1 ASTM Standards:²

A536 Specification for Ductile Iron Castings

C184 Test Method for Fineness of Hydraulic Cement by the 150- μ m (No. 100) and 75- μ m (No. 200) Sieves (Withdrawn 2002)³

¹ This specification is under the jurisdiction of ASTM Committee D04 on Road and Paving Materials and is the direct responsibility of Subcommittee D04.38 on Highway Traffic Control Materials.

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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* volume information, refer to the standard's Document Summary page on the ASTM website.

³ The last approved version of this historical standard is referenced on www.astm.org.

C430 Test Method for Fineness of Hydraulic Cement by the 45- μ m (No. 325) Sieve

C778 Specification for Standard Sand

D5 Test Method for Penetration of Bituminous Materials

D36 Test Method for Softening Point of Bitumen (Ring-and-Ball Apparatus)

D70 Test Method for Density of Semi-Solid Bituminous Materials (Pycnometer Method)

D71 Test Method for Relative Density of Solid Pitch and Asphalt (Displacement Method)

D92 Test Method for Flash and Fire Points by Cleveland Open Cup Tester

D113 Test Method for Ductility of Asphalt Materials

D1754 Test Method for Effects of Heat and Air on Asphaltic Materials (Thin-Film Oven Test)

D1785 Specification for Poly(Vinyl Chloride) (PVC) Plastic Pipe, Schedules 40, 80, and 120

D1856 Test Method for Recovery of Asphalt From Solution by Abson Method

D2171 Test Method for Viscosity of Asphalts by Vacuum Capillary Viscometer

D2172 Test Methods for Quantitative Extraction of Bitumen From Bituminous Paving Mixtures

D2669 Test Method for Apparent Viscosity of Petroleum Waxes Compounded with Additives (Hot Melts)

D3111 Test Method for Flexibility Determination of Hot-Melt Adhesives by Mandrel Bend Test Method

D4280 Specification for Extended Life Type, Nonplowable, Raised Retroreflective Pavement Markers

D4402 Test Method for Viscosity Determination of Asphalt at Elevated Temperatures Using a Rotational Viscometer

D5329 Test Methods for Sealants and Fillers, Hot-Applied, for Joints and Cracks in Asphalt Pavements and Portland Cement Concrete Pavements

E18 Test Methods for Rockwell Hardness of Metallic Materials

E284 Terminology of Appearance

E308 Practice for Computing the Colors of Objects by Using the CIE System

E691 Practice for Conducting an Interlaboratory Study to Determine the Precision of a Test Method

E808 Practice for Describing Retroreflection

E809 Practice for Measuring Photometric Characteristics of Retroreflectors