



Standard Specification for Polyethylene Stay In Place Form System for End Walls for Drainage Pipe¹

This standard is issued under the fixed designation D7082; 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 addresses the requirements for polyethylene stay in place forms for end walls or head walls for use with standard storm drainage systems.

1.2 The wall form system consists of a base wall form, a cap, an optional riser to adjust the height of the wall above the pipe, and an optional adaptor to adjust the pipe opening to accommodate smaller pipe sizes.

1.3 The form system is manufactured using the rotational molding process and is available in different colors.

1.4 The values stated in SI units are to be regarded as the standard, the inch-pounds in parentheses are given for information only.

1.5 *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.*

NOTE 1—There is no known ISO equivalent to this standard.

1.6 *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

D638 Test Method for Tensile Properties of Plastics

D648 Test Method for Deflection Temperature of Plastics Under Flexural Load in the Edgewise Position

¹ This specification is under the jurisdiction of ASTM Committee D20 on Plastics and is the direct responsibility of Subcommittee D20.24 on Plastic Building Products.

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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.

D790 Test Methods for Flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials

D883 Terminology Relating to Plastics

D1238 Test Method for Melt Flow Rates of Thermoplastics by Extrusion Plastometer

D1505 Test Method for Density of Plastics by the Density-Gradient Technique

D1600 Terminology for Abbreviated Terms Relating to Plastics

D1693 Test Method for Environmental Stress-Cracking of Ethylene Plastics

D4883 Test Method for Density of Polyethylene by the Ultrasound Technique

3. Terminology

3.1 Definitions:

3.1.1 For definitions of terms that appear in this practice relating to plastics, refer to Terminology D883. For abbreviations used in this practice, refer to Terminology D1600.

3.1.2 *end wall*—a wall installed at the outlet of a storm drainage pipe.

3.1.3 *head wall*—a wall installed at the inlet of a storm drainage pipe.

4. Ordering Information

4.1 Number and color of base wall forms,

4.2 Number and color of riser forms,

4.3 Number and color of caps, and

4.4 Number, color and size of adaptors.

5. Materials and Manufacture

5.1 The material used shall be a polyethylene meeting the criteria in Table 1.

5.2 Only virgin materials shall be used.

5.3 This product shall be manufactured using a rotational molding process.

6. Requirements

6.1 Wall System Description:

*A Summary of Changes section appears at the end of this standard