

Standard Specification for Polyethylene (PE) Pipe and Fittings for Roof Drain Systems¹

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1. Scope*

1.1 This specification covers requirements for polyethylene (PE) pipe and fittings for nonpressure roof drain systems.

1.2 This specification covers pipe and fittings intended for normal residential and commercial uses and is not intended for use in unusual corrosive conditions.

NOTE 1—Before installing pipe for waste disposal use, the approval of the cognizant building code authority shall be obtained as conditions not found in normal use or temperatures approaching 140°F (60°C) may be encountered.

1.3 Pipe is produced in dimensions based on outside diameters of 32 mm (1.250 in.) and larger in accordance with Specification F714.

1.4 The interchangeability of pipe and fittings made by different manufacturers is not addressed in this specification. Transition fittings for joining pipe and fittings of different manufacturers is provided for in this specification.

1.5 Pipe and fittings are joined by the heat-fusion method, by the electrofusion method, or by using mechanical joints (excluding insert fittings) recommended by the manufacturer.

1.6 In referee decisions, the SI units shall be used for metric-sized pipe and inch-pound units for pipe sized in the IPS system (ANSI B36.10). In all cases, the values given in parentheses are provided for information only.

1.7 The following safety hazards caveat pertains only to the test method, Section 7, 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 and health practices and determine the applicability of regulatory limitations prior to use.*

2. Referenced Documents

2.1 ASTM Standards:²

- D543 Practices for Evaluating the Resistance of Plastics to Chemical Reagents
- D570 Test Method for Water Absorption of Plastics
- D618 Practice for Conditioning Plastics for Testing
- D1600 Terminology for Abbreviated Terms Relating to Plastics
- D2122 Test Method for Determining Dimensions of Thermoplastic Pipe and Fittings
- D2412 Test Method for Determination of External Loading Characteristics of Plastic Pipe by Parallel-Plate Loading
- D2444 Test Method for Determination of the Impact Resistance of Thermoplastic Pipe and Fittings by Means of a Tup (Falling Weight)
- D3311 Specification for Drain, Waste, and Vent (DWV) Plastic Fittings Patterns
- D3350 Specification for Polyethylene Plastics Pipe and Fittings Materials
- D4976 Specification for Polyethylene Plastics Molding and Extrusion Materials
- D5033 Guide for Development of ASTM Standards Relating to Recycling and Use of Recycled Plastics (Withdrawn 2007)³
- F412 Terminology Relating to Plastic Piping Systems
- F477 Specification for Elastomeric Seals (Gaskets) for Joining Plastic Pipe
- F714 Specification for Polyethylene (PE) Plastic Pipe (DR-PR) Based on Outside Diameter
- F1290 Practice for Electrofusion Joining Polyolefin Pipe and Fittings
- F1498 Specification for Taper Pipe Threads 60° for Thermoplastic Pipe and Fittings

¹ This specification is under the jurisdiction of ASTM Committee F17 on Plastic Piping Systems and is the direct responsibility of Subcommittee F17.63 on DWV.

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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.