



Standard Specification for Coextruded Composite Drain, Waste, and Vent Pipe (DWV)¹

This standard is issued under the fixed designation F 1499; 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 coextruded composite drain, waste, and vent pipe (DWV). The pipe is produced in Schedule 40 IPS sizes by a coextrusion die system, in which the concentric layers are formed and combined before exiting the die.

1.1.1 Coextruded composite drain, waste, and vent pipe, DWV, by definition, is permitted to be produced with two or more layers. The outer layer shall be ABS. The middle layer is permitted to be thermally foamed PVC or solid PVC or a blend of rework material, as specified in the rework material section. The inner layer is permitted to be solid PVC or ABS, or a blend of rework material as specified in the rework material section.

1.1.2 The function of this specification is to provide standardization of product, technical data, and serve as a purchasing guide.

1.2 DWV is permitted to be produced utilizing a two layer or three layer coextrusion die.

1.3 Materials that do not meet the requirements of the material section are excluded.

1.4 Pipe produced to this specification is permitted to be joined using molded fittings meeting the requirements of Specification D 2661 or Specification F 628. The fitting patterns must comply with Specification D 3311.

1.5 Pipe produced to this specification is permitted to be perforated in accordance with any specified standard or by agreement between the purchaser and the supplier.

1.6 Pipe produced to this specification is permitted to be belled for joining by solvent cementing or belled for joining by an elastomeric seal (gasket), in accordance with any specified standard or by agreement between the purchaser and the supplier.

1.7 Recommendations for storage, joining, and installation are provided in Appendix X1, Appendix X2, and Appendix X3, respectively.

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

1.9 The text of this specification references notes, footnotes, and appendixes which provide explanatory material. These notes and footnotes (excluding those in tables and figures) shall not be considered as requirements of this specification.

1.10 *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.*

NOTE 1—Specifications related to this specification are as follows: Specifications D 2661, D 2665, F 628, and F 891.

2. Referenced Documents

2.1 The following standards contain provisions that, though referenced in this specification, constitute provisions of this specification. All standards are subject to revision and parties using this specification, shall reference the most recent edition of the standards listed as follows:

2.2 ASTM Standards:

D 618 Practice for Conditioning Plastics for Testing²

D 696 Test Method for Coefficient of Linear Thermal Expansion of Plastics Between -30°C and 30°C With a Vitreous Silica Dilatometer²

D 883 Terminology Relating to Plastics²

D 1600 Terminology for Abbreviated Terms Relating to Plastics²

D 1898 Practice for Sampling of Plastics²

D 1972 Practice for Generic Marking of Plastic Products³

D 2122 Method of Determining Dimensions of Thermoplastic Pipe and Fittings⁴

D 2235 Specification for Solvent Cement for Acrylonitrile-Butadiene-Styrene (ABS) Plastic Pipe and Fittings⁴

D 2321 Practice for Underground Installation of Thermoplastic Pipe for Sewers and Other Gravity-Flow Applications⁴

D 2412 Test Method for Determination of External Loading Characteristics of Plastic Pipe by Parallel-Plate Loading⁴

D 2444 Test Method for Determination of the Impact Resistance of Thermoplastic Pipe and Fittings by Means of a

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² *Annual Book of ASTM Standards*, Vol 08.01.

³ *Annual Book of ASTM Standards*, Vol 08.02.

⁴ *Annual Book of ASTM Standards*, Vol 08.04.