

**Installation Standard  
For  
POLYETHYLENE (PE) COLD WATER BUILDING SUPPLY AND YARD PIPING**

**IAPMO IS 7-2008**

**1.0 SCOPE**

**1.1** This standard shall govern the installation of polyethylene (PE) cold water building supply and yard piping. (See Section 604.1 of the Uniform Plumbing Code and Section 2.7 of this standard for allowable location and pressure). Installation, material and inspection shall comply with the current edition of the Uniform Plumbing Code [UPC]<sup>TM</sup> published by the International Association of Plumbing and Mechanical Officials, and shall also comply with this standard. The terms pipe and piping are used throughout this document and are intended to include both polyethylene tubing and polyethylene pipe.

**Note:** The following sections of the Uniform Plumbing Code apply to polyethylene piping.

103.5.3	Testing of Systems
218.0	Definition of PE
310.0	Workmanship
313.0	Protection of Piping, Materials, and Structures
314.0	Supporting in the Ground
315.0	Backfilling
316.2.3	Connection to Other Materials
Chapter 6	Water Distribution
609.0	Locations
609.1	Depth of piping
609.4	Testing
Table 14-1	Metallic Fittings
	IAPMO PS 25
	Plastic Insert Fittings
	ASTM D 2609
	Butt Heat Fusion PE Plastic Fittings
	ASTM D 3261
	Pe Pipe
	ASTM D 2239
	ASTM D 3035
	ASTM F 714
	PE Tubing
	ASTM D 2737
	Heat Fusing Joining
	ASTM F 2620

**ABBREVIATIONS**

ASTM	American Society for Testing and Materials
IAPMO	International Association of Plumbing and Mechanical Officials
PS	Material and Property Standard published by IAPMO
UPC	Uniform Plumbing Code published by IAPMO

**2.0 PRODUCT REQUIREMENTS**

**2.1 Minimum Standards**

**2.1.1 Material.** Material shall conform to the appropriate standard in Table 14-1.

**2.1.2 Pipe.** PE pipe is plastic and typically colored black. It is not mandatory to use color to identify piping service.

**2.1.3 Fittings.** Fittings are copper alloy or nylon barbed insert fittings for D2239 PE piping or butt fusion fittings for D 2737, D 3035 or F 714 PE piping.

**2.2 Markings**

**2.2.1 Piping.** PE pipe markings shall be in accordance with either D 2239, D 2737, D 3035 or F 714. [UPC 301.1.2]

**2.2.2 Fittings.**

**2.2.2.1** Plastic insert fittings for joining D 2239 PE pipe shall be marked in accordance with D 2239. [UPC 301.1.2]

**2.2.2.2** Butt fusion fittings for joining D 2737, D 3035 or F 714 PE pipe shall be marked in accordance with D 3261. [UPC 301.1.2]

**2.2.3 Bands.** Bands for plastic insert fittings shall be marked with at least the following:

- (a) Manufacturer's name or trademark;
- (b) Model;
- (c) Stainless steel, Series 300; and
- (d) Bands listed by IAPMO that are covered by this standard shall be labeled with the UPC logo to show compliance with this standard.

**2.2.4 Position of Markings.** The identifying markings on pipe and fittings shall be visible for inspection without moving materials.

**2.3 Protection of Piping**

**2.3.1 Storage.** Unprotected pipe should not be stored in direct sunlight. The pipe shall be