

**Installation Standard  
for  
TRENCHLESS INSERTION OF  
POLYETHYLENE (PE) PIPE FOR SEWER LATERALS**

**IAPMO IS 26–2006**

**1.0 SCOPE**

**1.1** This standard shall govern the Trenchless Installation of Polyethylene (PE) pipe for use in sanitary and storm sewers. The installed pipe shall comply with the requirements of the Uniform Plumbing Code (UPC)<sup>TM</sup> published by the International Association of Plumbing and Mechanical Officials (IAPMO) as to grade and connections to existing pipe and shall also comply with this standard.

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

103.5.3	Testing of Systems
103.5.4.2	Responsibility
103.5.5	Other Inspections
103.5.5.1	Defective Systems
103.6.2	Other Connections
218.0	Definition of PE
301.1	Minimum Standards
310.0	Workmanship
313.0	Protection of Piping, Materials, and Structures
315.0	Trenching, Excavation, and Backfill
316.2.3	Plastic Pipe to Other Materials
Chapter 7	Sanitary Drainage
701.2	Fittings

**ABBREVIATIONS**

ASTM	American Society for Testing Materials
IAPMO	International Association of Plumbing and Mechanical Officials
UPC	Uniform Plumbing Code

**2.0 PRODUCT REQUIREMENTS**

**2.1 Minimum Standards**

**2.1.1 Materials**

Materials shall comply with the following: The polyethylene pipe used is covered by the ASTM standards listed later in this standard. [UPC 301.1]

**Materials**

HDPE Extra High Molecular Weight 3408 SDR 17 Pipe Socket-Type PE Fittings for Outside Diameter-Controlled Polyethylene Pipe

**Note:** The HDPE 3408 SDR 17 pipe used in this process was selected because of its ability to retain its circular shape even when bent on a 4-foot radius during and after installation.

**2.1.2 Table 14-1 Standards**

ASTM D 2239  
ASTM D 2447  
ASTM D 2657  
ASTM D 2683  
ASTM D 3261  
ASTM F 714  
ASTM F 894  
IAPMO PS 25

**2.2 Protection of Pipe**

**2.2.1 Storage and Handling**

Pipe shall be stored in a way to protect it from mechanical damage (slitting, puncturing, etc.). It shall be stored under cover to keep it clean and avoid long term exposure to sunlight. Exposure to sunlight during normal construction periods is not harmful.

**2.3 Types of Joints.**

PE joints shall be made as follows:

**2.3.1 Molded Rubber Coupling Joints**

Molded rubber coupling joints shall be installed in accordance with Appendix I of the UPC and with Section 705.1.6.

**2.3.2 Shielded Coupling Joints**

Shielded coupling joints shall be installed in accordance with Appendix I of the UPC and with Section 705.1.8.

**2.3.4 Hubless Cast Iron Pipe Joints**

Hubless cast iron pipe joints shall be installed in accordance with Appendix I of the UPC and with Section 705.1.9.

**2.3.5 Heat Fusion Joints.**

Heat fusion joints shall be made according to the manufacturer's procedure, installation instructions, and either ASTM D2659 or ASTM D3261.