

Installation Standard For ABS SEWER PIPE AND FITTINGS

IAPMO IS 11-2006

1.0 SCOPE

1.1 This Installation Standard shall apply to ABS Building Sewer Pipe and Fittings as governed by the Uniform Plumbing Code. Material Standard ASTM D 2751, Standard Specification for Acrylonitrile-Butadiene-Styrene (ABS) Sewer Pipe and Fittings shall form part of this Installation Standard. Materials shall be limited to building sewers receiving domestic sewage excluding special and industrial waste.

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

103.5	Inspection and Testing
101.4.1.1	Repairs and Alterations
203.0	Definition ABS
206.0	Domestic Sewage
301.1	Minimum Standards
310.0	Workmanship
312.0	Independent Systems
313.3 and 313.4	Protection of Piping, Materials, and Structures
314.0	Hangers and Supports
315.0	Trenching, Excavation, and Backfill
316.1	Types of Joint
317.0	Increases/Reducers
705.1.1	Caulked Joints
705.1.7	Elastomeric Gasketed and Rubber-Ring Joints
713.0	Sewer Required
715.0	Building Sewer Materials
718.0	Grade, Support, and Protection of Building Sewers
719.0	Cleanouts
720.0	Sewer and Water Pipes
723.0	Building Sewer Test
Table 14-1	ASTM D2751 ¹

¹ Although this standard is referenced in Table 14-1, some of the tube or fittings shown in the standard are not acceptable for use under the Uniform Plumbing Code.

2.0 PRODUCT REQUIREMENTS

2.1 Minimum Standards

2.1.1 Pipe. ABS pipe is furnished in straight lengths. Refer to Tables in ASTM D2751

for dimensions and tolerances for pipe and pipe sockets.

ABS pipe markings shall be in accordance with ASTM D2751. [UPC 301.1.2]

2.1.2 Fittings. Refer to Tables in ASTM D2751 for dimensions and tolerances for fitting sockets, spigots, and laying lengths.

ABS fitting markings shall be in accordance with ASTM D2751. [UPC 301.1.2]

2.1.3 Solvent Cement. Solvent cement shall be as specified in ASTM D2235.

Solvent cement label markings shall be in accordance with ASTM D2235. [UPC 316.1.6]

2.2 Workmanship

All piping system components shall be aligned properly without strain. Pipe shall not be bent or pulled into position after being solvent cemented. Pipe and fittings shall be so positioned that identifying markings shall be readily visible for inspection. [UPC 310.0]

2.3 Protection of Piping

2.3.1 Storage

Pipe and fittings should not be stored for long periods in direct sunlight. However, exposure to direct sunlight during normal construction periods is not harmful. Pipe shall be stored in such a manner as to prevent sagging or bending.

2.4 Trenching, Excavation, and Backfill

2.4.1 Trenching

The width of the trench at any point below the top of the pipe should not be greater than necessary to provide adequate room for joining the pipe and compacting the side fills. [UPC 315.0]

2.5 Alignment and Grade

The pipe should be bedded true to line and grade, uniformly and continuously supported on firm, stable material. Blocking shall not be used to bring the pipe to grade. The bedding shall conform to Section 718.0 of the Uniform Plumbing Code.