

Internal Use Only

Installation Standard For EXTRA STRENGTH VITRIFIED CLAY PIPE IN BUILDING DRAINS

IAPMO IS 18-2006

1.0 SCOPE

1.1 This standard shall govern the installation of extra strength vitrified clay pipe in gravity building drains. (See Section 2.2 for allowable location.) Installation, material, and inspection shall comply with the current edition of the Uniform Plumbing Code [UPC]TM published by the International Association of Plumbing and Mechanical Officials and this standard.

and Mechanical Officials
UPC Uniform Plumbing Code published by
IAPMO

Note: The following sections of the Uniform Plumbing Code apply to vitrified clay pipe.

103.5	Inspections
103.5.3	Testing of Systems
103.5.3.3	Exceptions
103.5.4.2	Responsibility
204.0	Definitions, Building Drain
310.0	Workmanship
313.0	Protection of Piping, Materials, and Structures
314.3	Supporting in the Ground
315.0	Trenching, Excavation, and Backfill
316.1.4	Flare Joints
Chapter 7	Sanitary Drainage
701.1.3	Location of piping and use in Pressurized Drainage Systems
705.2	Use of Joints
712.2	Water Test
712.3	Air Test
720.0	Sewer and Water Pipes
Table 14-1	Extra Strength Vitrified Clay Pipe ASTM C 700 Fittings, Couplings, Molded Rubber ASTM C 425
Chapter 2	DEFINITIONS
Chapter 14	
ASTM	American Society for Testing and Materials
IAPMO	International Association of Plumbing

2.0 PRODUCT REQUIREMENTS

2.1 Minimum Standards

2.1.1 Materials. Pipe and fittings shall be a minimum 3 inch (76 mm) in size, "Extra Strength" and couplings shall be molded rubber sewer couplings. They shall conform to the applicable standards in Table 14-1 of the UPC. [UPC 301.1]

2.1.2 Markings

2.1.2.1 Pipe and Fittings. Pipe and fitting markings shall be in accordance with C 700. [UPC 301.1.2]

2.1.2.2 Couplings. Couplings assemblies shall be marked with at least the following:

- Manufacturer's name or trademark on rubber couplings and take-up band or screw take-up housing;
- Size, on rubber coupling;
- Year of manufacture on rubber coupling;
- Grade of material on take-up band or screw take-up housing; and
- Couplings and components listed by IAPMO that are covered by this standard shall be labeled with the designated IAPMO certification mark to show compliance with this standard.

2.2 Burial and Separation

2.2.1 Burial. Pipe and fittings shall be buried 12 inches (305 mm) minimum.

2.2.2 Separation. Pipe and fittings shall not be run or laid in the same trench with water piping unless **both** the following conditions are met:

- (1) The bottom of the water pipe, at all

points, shall be at least 12 inches (305 mm) above the top of the drain line; and

- (2) The water pipe shall be placed on a solid shelf excavated at one side of the common trench. [UPC 720.0]

2.3 Type of Joints

Joints shall be made with couplings or with flexible compression factory fabricated joints. [UPC 316.0]

2.3.1 Use of Joints

Transitions between clay and other materials shall be made with molded rubber sewer couplings and appropriate bushings or reducers. [UPC 705.2]

ADOPTED: 1980

REVISED: 1982, 1985, 2003, 2006