

**INTERNATIONAL ASSOCIATION OF PLUMBING
AND MECHANICAL OFFICIALS**

INTERIM GUIDE CRITERIA

FOR

WATER CLOSET RISER ASSEMBLIES

IGC 117-97 (R2013)

1. PURPOSE

- 1.1** The purpose of this IGC is to establish a generally acceptable standard for water closet riser assemblies. This IGC is not intended to be a specification guide nor is it intended to restrict design. Its purpose is to serve as a guide for producers, distributors, architects, engineers, contractors, installers, inspectors and users; to promote understanding regarding materials, manufacture and installation; and to provide for identification of fittings complying with this IGC.
- 1.2** The provisions of this IGC are not intended to prevent the use of any alternate material, or method of construction, provided that any such alternate meets or exceeds the intent of this IGC.

2. SCOPE

- 2.1** This IGC covers water closet riser assemblies, which are comprised of a riser deck with flanges assemblies, mounting bolts, nuts and washers, extension supply tube and two wax rings. The water closet riser assembly is designed to serve as an extension base to raise a floor-mounted water closet's seat level to accommodate the elderly or the physically challenged person. Such devices are intended to provide a structurally-secure, water and gas tight extension of the mounting base for a floor-mounted water closet. This IGC covers definitions, materials, general requirements, performance requirements and marking requirements for such products.

3. REFERENCED STANDARDS

- 3.1** All standards referenced herein shall be the current edition of that standard as published

in Table 14-1 of the Uniform Plumbing Code. Copy of the current Table 14-1 can be obtained from IAPMO.

ANSI Z124.4 Plastic Water Closet Bowls and Tanks
ASTM D 1785 Poly(Vinyl Chloride) Plastic Pipe Schedules 40, 80, and 120
ASTM D 2564 Solvent Cements for Poly(Vinyl Chloride) Plastic Pipe and Fittings
ASTM D 2665 Poly(Vinyl Chloride) Plastic Drain Waste and Vent Pipe and Fittings
ASTM D 3311 Drain, Waste and Vent Plastic Fittings Patterns
ASTM F 656 Primers for Use in Solvent Cement Joints of Poly(Vinyl Chloride) Plastic Pipe and Fittings
FS TT-P-1536a Plumbing Fixture Setting Compound

4. GENERAL REQUIREMENTS

- 4.1 Materials.** The water closet riser assembly shall be fabricated of a structurally firm base complying with the performance tests cited in Section 5. Plastic closet flanges shall comply with ASTM D 2665. PVC plastic pipe shall comply with ASTM D 1785. Plastic solvent welded joints shall be made using solvent cements and primer complying with ASTM D 2564 and F 656. Closet bolts, washers and nuts shall be corrosion resisting. Wax rings shall comply with FS TT-P-1536a. Flexible supply connectors shall be listed.
- 4.2 Sizes.** The Base shall measure a minimum dimension of 21" x 11" x 4". The flange connector inlet size shall be a 4" x 3" or a 4" x 4" flange. The minimum length of water supply connector shall be 20". The minimum length of the extension closet bolt shall be 6".
- 4.3 Flow Ways.** The internal flow ways of the drain within the assembly shall be free from burrs and obstructions.
- 4.4 Joints.** The joints within the assembly shall be solvent welded in accordance with the solvent and primer manufacturer's installation instructions.

5. TESTING REQUIREMENTS

- 5.1 Dimensional Evaluation.** The components shall be examined for compliance with the specifications cited in Section 4.
- 5.2 Finish Tests.** The surface finish of the water closet riser assembly base shall be evaluated for compliance to Section 5 of ANSI Z 124.4. The unit shall comply with all tests.