

**INTERNATIONAL ASSOCIATION OF PLUMBING
AND MECHANICAL OFFICIALS**

IAPMO GUIDE CRITERIA

FOR

PVC-DWV Fire Stop Fittings

IGC 173-2002 (R2013)

1. PURPOSE

- 1.1** The purpose of this standard is to establish an acceptable standard for PVC-DWV fire stop couplings or fittings. Their purpose is twofold; to act as a PVC-DWV coupling or fitting and to act as a fire stop product when properly installed in fire separations. This standard is intended 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 identifying PVC-DWV fire stop fittings that conform with this standard.
- 1.2** The fire stop couplings covered by this standard are intended for use in drain, waste, and vent systems, as covered in Chapter 3 and 4 of the Uniform Plumbing Code. The provisions of this standard are not intended to prevent the use of any alternate material, or method of construction, provided any such alternate meets or exceeds the intent of this standard.

2. SCOPE

- 2.1** This standard allows for the establishment of technology for specialized plastic DWV fitting assemblies.
- 2.2** This standard covers, reference standards, general requirements, performance and workmanship, test requirements, and marking and identification for PVC-DWV fire stop fittings.

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.

ASTM D1784	Rigid Poly (Vinyl Chloride)(PVC) Compounds and Chlorinated Poly (Vinyl Chloride)(CPVC) Compounds
ASTM D2665	Poly (Vinyl Chloride)(PVC) Plastic Drain, Waste, and Vent Pipe and Fittings
ASTM E814	Fire Tests of Through-Penetration Fire Stops

4. GENERAL REQUIREMENTS

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- 4.1 Materials.** The fire stop coupling or fitting compound shall conform with PVC 12353-0 material as specified in ASTM Standard D 1784 except that the vinyl chloride content shall be at least 65%.
- 4.2 Dimensions.** Fittings shall be sized so as to comply with dimensions and tolerances of ASTM D 2665 for PVC fittings.

5. PERFORMANCE AND WORKMANSHIP

- 5.1** All PVC fittings shall comply with the performance requirements specified in ASTM D 2665.
- 5.2 Workmanship.** The inside and outside surface of the fittings shall be free of cracks, holes, blisters, voids, foreign inclusions, or other defects that are visible to the naked eye and that may effect the wall integrity.

6. TESTING REQUIREMENTS

- 6.1** The fire stop fitting must be tested and certified by a nationally recognized laboratory as part of a fire stop system; tested in accordance with ASTM Standard E 814.

7. MARKING AND IDENTIFICATION

- 7.1 Markings.** Each fitting shall be permanently and legibly marked with the following information:
- (a) Manufacturer's name or trademark;
 - (b) PVC symbol;
 - (c) Nominal size; and
 - (d) The word "Fire Stop".

Adopted: March 2002
Reaffirmed: December 2013