



BUILDINGS BULLETIN 2015-004

OTCR

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Purpose: This document establishes acceptance criteria for a hinged plastic no-hub coupling as an alternative material in the NYC Construction Codes, and limits its use in residential buildings five stories or less in height.

Related Code	AC 28-113	PC 303.4	PC 702.3
Section(s):	AC 28-113.2.2	PC 702.1	PC 705.5.3
		PC 702.2	PC 1102

Subject(s): Mechanical joint, no-hub coupling, plastic; Plumbing, sanitary drainage, no-hub coupling, plastic; Plumbing, vent pipe, no-hub coupling, plastic; Plumbing, storm drainage piping, no-hub coupling, plastic

Background: No-hub coupling is a code prescribed material which consists of an elastomeric gasket and stainless steel shield and clamp assembly. Pursuant to section AC 28-113.2.2, this bulletin establishes acceptance criteria for plastic no-hub couplings as alternative materials to code prescribed no-hub couplings.

Description: Plastic no-hub couplings consist of an elastomeric gasket enclosed and compressed by a hinged shield molded from fire resistant plastic. The shield is hinged by a corrosion resistant metal pin and tightened with corrosion resistant screws engaging corrosion resistant nuts molded into the shield.

Evaluation Scope: NYC Construction Codes

Evaluation Criteria: Pursuant to section AC 28-113, the Office of Technical Certification and Research recognizes plastic no-hub couplings manufactured, tested, and evaluated in accordance with the following:

- IAPMO IGC 257-2009a¹ and FM Class Number 1680².
- ASTM C1277³ or CISPI 310⁴. Plastic no-hub couplings shall comply with the performance criteria but not be required to comply with the prescriptive requirements of ASTM C1277³ or CISPI 310⁴.
- The shield shall be molded from a thermoplastic material having a flammability rating of V-0 per UL 94⁵ and a smoke density rating less than 241 per ASTM E 662⁶.

Acceptable products shall be certified by an approved agency in accordance with section PC 303.4 and shall comply with the conditions of this bulletin.

Conditions of Acceptance: Plastic no-hub couplings shall be designed and installed in accordance with the NYC Construction Codes and other applicable provisions including but not limited to the following:

A. Design

Plastic no-hub couplings shall be designed and installed in accordance with NYC Construction Codes, manufacturer's recommendation and conditions of the certifying listing agency.

B. Installation Requirements

1. Installation requirements shall be in accordance with the manufacturer's instructions, product certification and the conditions of this bulletin.
2. Installation shall be performed by a New York City licensed master plumber only.
3. Plastic no-hub couplings may only be installed in the sanitary waste or storm drainage system of residential buildings five stories or less in height.
4. Plastic no-hub couplings shall be certified as per section PC 303.4. All shipment and deliveries of materials shall be accompanied by a label certifying the material shipped or delivered are equivalent to those tested and approved.

Referenced Standards:

1. IAPMO ICG 275-2009a – *"IAPMO Guide Criteria for hinge type couplings used for joining hubless cast iron soil pipe and fittings"*
2. FM Class Number 1680 January 1989 – *"Approval standard for couplings used in hubless cast iron system for drain, waste or vent, sewer, rainwater or storm drain systems above and below ground, industrial, commercial and residential"*
3. ASTM C1277-97 – *"Specification for shielded coupling joining hubless cast iron soil pipe and fittings"*
4. CISPI 310-00 – *"Specification for hubless cast iron soil pipe and fittings for sanitary and storm drain, waste and vent piping application"*
5. UL 94-1996 – *"Test for flammability of plastic material for parts in devices and appliances"*
6. ASTM E662-09 – *"Standard test method for specific optical density of smoke generated by solid materials"*