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**BUILDINGS BULLETIN 2010-030**  
**OTCR**

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**Supersedes:** None

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Director, Office of Technical Certification and Research

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**Purpose:** This document establishes acceptance criteria for a hinged plastic no-hub coupling as an alternative material in the 2008 NYC Construction Codes, and limits its use in residential buildings five stories or less in height.

**Related Code Section(s):**

AC 28-113	PC 303.4	PC 702.3
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

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**Background:** No-hub coupling is a code prescribed material which consists of an elastomeric gasket and stainless steel shield and clamp assembly. Pursuant to 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.

**Uses:** Plastic no-hub couplings are intended for joining hubless cast iron pipe and fittings manufactured per ASTM A 888 and CISPI 301 for sanitary drainage, vent pipe and storm drainage piping.

**Restriction:**  
Plastic no-hub couplings may only be used in residential buildings five stories or less in height.

**Evaluation Criteria:** Pursuant to 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 257-2009a<sup>1</sup> and FM Class Number 1680<sup>2</sup>.
- ASTM C1277<sup>3</sup> or CISPI 310<sup>4</sup>. Plastic no-hub couplings shall comply with the performance criteria but not be required to comply with the prescriptive requirements of ASTM C1277<sup>3</sup> or CISPI 310<sup>4</sup>.

- The shield shall be molded from a thermoplastic material having a flammability rating of V-0 per UL 94<sup>5</sup> and a smoke density rating less than 241 per ASTM E 662<sup>6</sup>.

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 2008 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 2008 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"*