



BUILDINGS BULLETIN 2012-010
OTCR

Supersedes: None

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Purpose: This document establishes acceptance criteria for flexible double wall fuel-oil pipe systems as alternative materials to the 2008 NYC Construction Code.

Related Code/Zoning Section(s):

AC 28-113.2.1	MC 1301
AC 28-113.2.2	MC 1302.3
	MC 1305.9

Subject(s): Fuel oil, fuel oil piping; Fuel oil, fuel oil piping, flexible double wall; Fuel oil piping, flexible double wall, continuous leak detection

Background: Table MC 1302.3 of the 2008 NYC Mechanical Code lists code-prescribed materials and applicable standards for fuel-oil pipes. This bulletin establishes the acceptance criteria for flexible double wall fuel-oil pipe systems with continuous leak detection systems as alternate materials.

Description: Flexible double wall fuel-oil pipe systems consist of an inner pipe made from metallic encased with an outer jacket and a continuous leak detection system.

Evaluation Scope: 2008 NYC Construction Codes

Evaluation Criteria: Pursuant to section AC 28-113, the Office of Technical Certification and Research (OTCR) recognizes flexible double wall fuel-oil pipe systems tested, and evaluated in accordance with ULC-S667-11 "*Metallic Underground Piping for Flammable and Combustible Liquids*."¹ Acceptable flexible double wall fuel-oil pipe systems shall be listed and labeled by an approved agency in accordance with section AC 28-113.2.3 and shall comply with the conditions of this bulletin.

Uses: Flexible double wall fuel-oil pipe systems may be used for transferring fuel oil below ground pursuant to MC Chapter 13 of the 2008 NYC Mechanical Code. Above ground use in accordance with section (A)(2) or (A)(3) of this bulletin shall be permitted.

Conditions of Acceptance: Flexible double wall fuel-oil pipe systems shall comply with the 2008 NYC Construction Codes and the following applicable provisions:

A. Design

1. Flexible double wall fuel-oil pipe systems shall be designed in accordance with the 2008 NYC Construction Codes, manufacturer's recommendation, and the conditions of the required listing.
2. Where installed above ground, flexible double wall fuel-oil pipe systems shall be enclosed in two hour fire-resistance-rated construction in accordance with section MC 1305.9 and installed in accordance with applicable sections of the 2008 NYC Construction Codes and the NYC Fire Code.
3. Flexible double wall fuel-oil pipe systems may be used above ground for conveying fuel oil at marinas or aviation installations for protection from salt water. Fire-resistance-rated enclosure shall not be required for such applications.
4. Flexible double wall fuel-oil pipe system shall be installed with a continuous leak detection system.

B. Installation Requirements

Installation requirements shall be in accordance with the manufacturer's instructions, the applicable listing, and the conditions of this bulletin.

C. Inspections

Pursuant to sections BC 1704.16 and BC 1704.13, the installation of flexible double wall fuel-oil pipe system shall be subject to special inspection requirements of BC Chapter 17 and Department Rules covering special inspection. Special Inspectors of flexible double wall fuel-oil pipe systems shall:

- a. Maintain the same qualification requirements for the "Fuel-oil storage and Fuel-oil piping system" category as defined in 1 RCNY section 101-06, Appendix A.
- b. Have duties and responsibilities in accordance with, but not limited to 1 RCNY section 101-06 and section BC 1704.16.
- c. Complete the statement of special inspection by referencing this bulletin under the Special Inspection Item for "Alternative Materials" in section 3.0 of the TR1 form.

<input type="checkbox"/>	Wall Panels, Curtain Walls, and Veneers	BC 1704.10		
<input type="checkbox"/>	Sprayed Fire-Resistant Materials	BC 1704.11		
<input type="checkbox"/>	Exterior Insulation Finish Systems (EIFS)	BC 1704.12		
<input type="checkbox"/>	Alternative Materials - OTCR Buildings Bulletin #2012-010	BC 1704.13		
<input type="checkbox"/>	Smoke Control Systems	BC 1704.14		
<input type="checkbox"/>	Mechanical Systems	BC 1704.15		
<input type="checkbox"/>	Fuel-Oil Storage and Fuel-Oil Piping Systems	BC 1704.16		
<input type="checkbox"/>	High-Pressure Steam Piping (Welding)	BC 1704.17		

D. Labeling

Flexible double wall fuel-oil pipe systems with continuous leak detection system shall be labeled as per section AC 28-113.4. All shipments and deliveries of materials shall be accompanied by a certificate or label certifying that the materials shipped or delivered are equivalent to those tested and approved.

Referenced Standards:

1. ULC-S667-11 "Metallic Underground Piping for Flammable and Combustible Liquids"