

NYC Buildings Department 280 Broadway, New York, NY 10007

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BUILDINGS BULLETIN 2013-008

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Purpose: This document establishes acceptance criteria for flexible fuel-oil piping systems as

alternative materials to the 2008 NYC Construction Sode:

Related AC 28-113.2.1 MC 1301 Code/Zoning AC 28-113.2.2 MC (1302.3

Section(s): MC \1306.9

Subject(s): Fuel oil, fuel oil piping; Fuel oil, fuel oil piping, flexible; Fuel oil piping, flexible; continuous

leak detection

Background: Table MC 1302.3 of the 2008 NYC Mechanisal Gode lists code-prescribed materials and

applicable standards for fuel-oil pipes. This bulletin establishes the acceptance criteria for flexible

fuel-oil piping systems with continuous leak detection as an alternative to the code.

Description: This bulketin covers flexible fuel-oil piping systems consisting of a metallic primary carrier and

secondary containment. This may include a single or double metallic piping system encased with

outer polymer jacket.

Evaluation 2008 NYC Construction Codes

Scope:

Evaluation Pursuant to section AC 28-113, the Office of Technical Certification and Research (OTCR) recognizes Criteria: flexible fuel-oil piping system tested, and evaluated in accordance with ULC-S667-11 "Metallic

Underground Piping for Flammable and Combustible Liquids."

Acceptable flexible fuel-oil piping 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 fuel-oil piping 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 Flexible fuel-oil piping systems shall comply with the 2008 NYC Construction Codes and the following

Acceptance: applicable provisions:

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A. Design

- Flexible fuel-oil piping systems shall be designed in accordance with the 2008 NYC Construction Codes, manufacturer's recommendation, and the conditions of the required listing.
- Where installed above ground, flexible fuel-oil piping 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.
 - 2.1 Horizontal offsets shall comply with section MC 1305 Ø.3.

 Exception: Double metallic flexible fuel-oil piping systems installed as a norizontal offset are not be required to be enclosed in a metallic sleeve.
- 3. Flexible fuel-oil piping systems may be used above ground for conveying fuel oil at/the roof level, and at marina or aviation installations, if such systems are double metallic piping with polymer protective cover for protection from exterior exposure to the elements. A fire-resistance-rated enclosure shall not be required to such applications.
- Flexible fuel-oil piping systems shall be installed with continuous leak detection.

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 fuel-oil piping systems shall be subject to special inspection requirements of BC Chapter 17 and Department Rules covering special inspection. Special inspectors of flexible fuel-oil piping systems shall:

- 1. 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.
- 2. Have duties and responsibilities in accordance with, but not limited to 1 RCNY section 101-06 and section BC 1704.16.
- 3. 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.

■ Wood - Installation of Metal-Plate-Connected Trusses	BC 1704.6.3
■ Wood - Installation of Prefabricated I-Joists	BC 1704.6.4
Soils - Site Preparation	BC 1704.7.1
Soils - Fill placement & In-Place Density	BC 1704 .7.2, BC 1704.7.3
Soils - Investigations (Borings/Test Pits)	BC 1704.7.4
☐ Pile Foundations & Drilled Pier Installation ☐ TR5	BC 1704.8
Pier Foundations	BC 1704.9
☐ Underpinning	BC 1704.9.1
■ Wall Panels, Curtain Walls, and Veneers	BC 1704.10
Sprayed Fire-Resistant Materials	BC 1704.11
Exterior Insulation Finish Systems (EIFS)	BC 1704.12
Alternative Materials - OTCR Buildings Bulletin #_2013-008	BC 1704.13
Smoke Control Systems	BC 1791.14
Mechanical Systems	BC 1704.15
Fuel-Oil Storage and Fuel-Oil Piping Systems	BC 1704.16
High-Pressure Steam Piping (Welding)	BC 1704.17
Fuel-Gas Piping (Welding)	BC 1704.18

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D. Labeling

Flexible fuel-oil piping 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"



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