



NYC Department of Buildings
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Report of Materials and Equipment Acceptance Division

Pursuant to Administrative Code Section 27-131, the following equipment or material has been found acceptable for use subject to the terms and conditions contained herein.

MEA 229-07-M

Manufacturer: United States Gypsum Company, 125 S. Franklin Street, Chicago, IL 60606

Trade Name(s): FORTACRETE® Structural Panels UL Designation Type FORTACRETE

Product: Through-penetration fire stop system for fire-rated structural cement panels

Pertinent Code Section(s): 27-131, 27-323, 27-345, 27-348

Prescribed Test(s): RS 5-2 (ASTM E119), RS 5-19 (ASTM E814), RS 5-5 (ASTM E84, ASTM E136)

Laboratory: Underwriters Laboratories, Inc.

Test Report(s): UL File R11822, Project numbers with test reports: 06NK09877 dated June 26, 2006
07NK09368 dated May 18 and 19, /2007

Description: Two-hour through-penetration firestop systems constructed with FORTACRETE® Structural Panels UL Type designation FORTACRETE. Panels comply with Non-combustibility and Surface Burning Characteristics code requirements for ICC-ES AC318 "Acceptance Criteria for Structural Cementitious Floor Sheathing Panels". The firestop material shall be applied in accordance with manufacturer's instructions and Underwriters Laboratories, Inc.'s system number listed on following page, in achieving the required fire-resistance ratings.

Through-Penetration Firestop systems, F-E-2031 and F-E-2033 shall be constructed with the following components:

1. **Floor\Ceiling Assembly** – 2-hour fire-rated UL Design No. G536 and G557.
2. **Through Penetrants** – One pipe or conduit centered in the firestop system with the annular space between the penetrant and the periphery of the opening to be a maximum of 2 inches Nom 2 in plastic pipes including PVC, CPVC, and Rigid Non-metallic Conduit. Nom 4 inches steel pipe, iron pipe, and conduit. Nom 3 inches copper pipe and tubing.
3. **Firestop system**
 - a. Minimum 26-gauge galvanized sheet steel sleeve installed to create a cylindrical enclosure between the floor and ceiling circular penetrant cutouts.
 - b. Minimum 9-1/4 inches thickness of 4 pcf UL Classified mineral wool batt insulation firmly packed in sheet steel sleeve.
 - c. Fill, Void or Cavity Material – Minimum 1/2 inch thickness of USG FIRECODE Brand Intumescent Acrylic Firestop Sealant Type IA fill material applied within the annulus flush with top of the floor. Minimum 5/8 inch of same fill material applied within the annulus flush with bottom surface of ceiling.

System No.	Fire Protection Rating	
	F	T
F-E-2031	2	1¼
F-E-1023	2	½

Terms and Conditions: The above-described through-penetration firestop system used to fill the remaining voids in floor/ceiling assemblies with the above-described fire protection rating is accepted with the following conditions:

1. Electrical trays, cables, mechanical piping or ductwork passing through the assembly shall be installed in accordance with the manufacturer's application instruction, and Underwriters Laboratories, Inc.
2. Suitable support angles and fasteners are required for respective assemblies and shall be provided in accordance with manufacturer's recommendations.
3. All shipments and deliveries of such materials shall be accompanied by a certificate or label certifying that the materials shipped or delivered are equivalent to those tested and acceptable for use, as provided for in Section 27-131 of the New York City Building Code.

Final Acceptance July 17, 2007

Examined By Simon Derksen