

System No. F-B-3013

September 20, 2011

ANSI/UL1479 (ASTM E814)

F Rating – 2 Hr

T Ratings – 3/4 and 2 Hr (See Item 2)

L Ratings At Ambient – 7 and 22 CFM/sq ft (See Item 3)

L Ratings At 400 F – 4 and 21 CFM/sq ft (See Item 3)

CAN/ULC S115

F Rating – 2 Hr

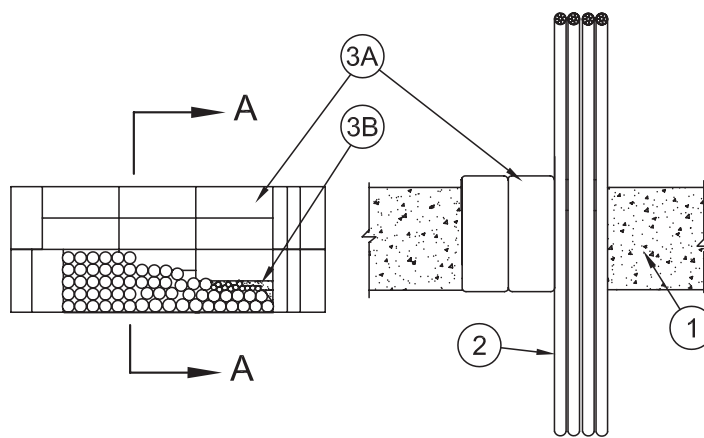
FT Ratings – 3/4 and 2 Hr (See Item 2)

FH Rating – 2 Hr

FTH Ratings – 3/4 and 2 Hr (See Item 2)

L Ratings At Ambient – 7 and 22 CFM/sq ft (See Item 3)

L Ratings At 400 F – 4 and 21 CFM/sq ft (See Item 3)



SECTION A-A

- Floor Assembly** – Min 8 in. (203 mm) thick lightweight or normal weight (100-150 pcf or 1600 to 2400 kg/m³) reinforced concrete. Max area of opening is 360 sq in. (0.23 m²) with max dimension of 30 in. (763 mm).
- 1A. Riser** – (Not Shown) – Nom 1-5/8 by 4 in. (41 by 102 mm) high C4X5.4 structural steel channels with mitered ends formed into four-sided enclosure with welded corners. Inside dimensions of enclosure, between flange tips, to be equal to the inside dimensions of the floor opening. Channels secured to floor with min 3/16 in. (5 mm) diam by min 1-1/4 in. (32 mm) long masonry anchors.
- 2. Cables** – Max 40 percent fill (based on the available area of the opening). The cables are to be laced to the cable rack and to each other to form a tight bundle against one side of the opening with min interstices between cables. The annular space between the cables and periphery of opening shall be min 0 in. (point contact) to max 12 in. (305 mm). Any combination of the following types and sizes of cables may be used:
 - Max 750 kcmil single-conductor power cables; cross-linked polyethylene (XLPE) insulation.
 - Max 7C No. 12 AWG (or smaller) multi conductor power and control cables; XLPE insulation, XLPE or polyvinyl chloride (PVC) jacket.
 - Max 300 pair No. 22 AWG (or smaller) copper conductor with PVC insulation and jacket.
 - Max No. 18 AWG RG 6/U coaxial cable with PVC insulation and jacket.
 - Max 4/C No. 2/0 AWG (or smaller) copper or aluminum conductor cables with XLPE or PVC insulation and jacket.
 - Max 1-10/125 Fiber Optic (F.O.) cable with PVC insulation and jacket.

T, FT and FTH Ratings are 2 Hr for cable F and 3/4 Hr for all other cables.

- 2A. Cable Rack** – (Not shown) – Max 20 in. (508) wide ladder type cable rack fabricated from min 0.136 in. (3.5 mm) thick steel channels with nom 2 in. (51 mm) wide side rails and nom 1 in. (25 mm) wide rungs spaced 9 in. (229 mm) OC. Cable rack shall be welded to top flange of riser (Item 1A).
- 3. Firestop System** – The firestop system shall consist of the following:
 - Fill Void or Cavity Material* – Pillows** – Max 9 in. (229 mm) long by 6 in. (152 mm) wide by 2 and 3 in. (51 and 76 mm) thick plastic covered pillows tightly-packed to fill annular space between cables and periphery of opening. Pillows installed with 9 in. (229 mm) dimension projecting through floor or wall and centered within the opening.
3M COMPANY – Fire Barrier Pillow or Fire Barrier Self-Locking Pillows
 - Fill Void or Cavity Material* – Putty** – After installation of pillows (Item 3B) all voids within the opening shall be filled with a min 1 in. (25 mm) thickness of putty. The individual cables may be wrapped with a min 1/4 in. (6 mm) thick by min 2 in. (51 mm) width of putty such that the putty extends approximately 1/2 in. (13 mm) above top surface of floor.
3M COMPANY – MP+, Cable Wrap

L Ratings are 7 and 4 CFM/sq ft. at ambient and 400° F, respectively, when individual cables are wrapped with 3M Cable Wrap or MP+ putty in accordance with the installation instructions. L Ratings are 22 and 21 CFM/sq ft. at ambient and 400° F, respectively, when individual cables are not wrapped with 3M Cable Wrap or MP+ putty.

*Bearing the UL Classification Mark

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