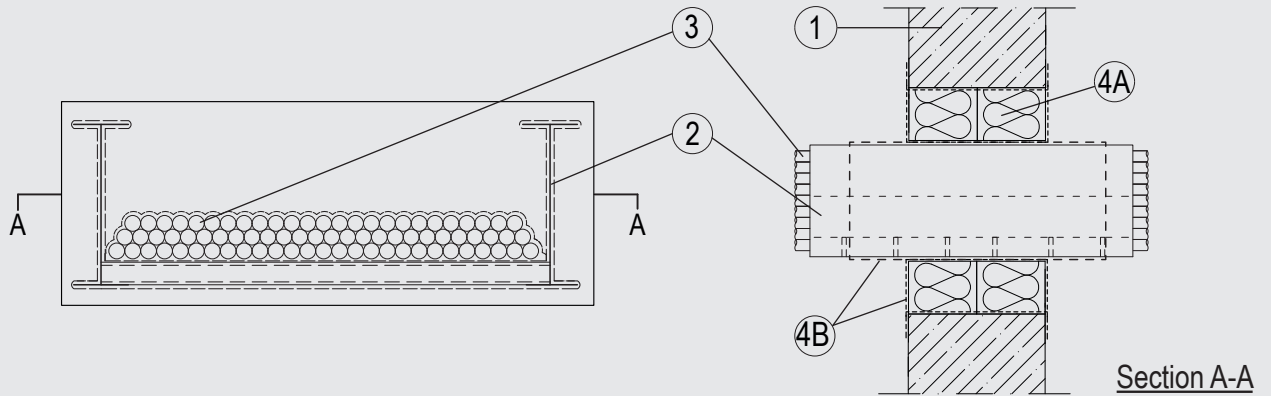


Through-penetration Firestop Systems

System No. W-J-4091

| ANSI/UL1479 (ASTM E814) | CAN / ULC S115 |
|-------------------------|-------------------|
| F Rating – 3 Hr | F Rating – 3 Hr |
| T Rating – 1 Hr | FT Rating – 1 Hr |
| | FH Rating – 3 Hr |
| | FTH Rating – 1 Hr |



1. Wall and Floor Assembly

Min 4-1/2 in. (115 mm) thick lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Opening shall be rectangular with max dimensions of 15-3/4 in. (400 mm) by 7-7/8 in. (200 mm).

See Concrete Blocks (CAZT) in the Fire Resistance Directory for names of manufacturers.

2. Cable Tray*

Nom 13-3/4 in. (350 mm) wide by max 6-3/8 in. (163 mm) deep open-perforated or solid sheet cable tray with side rails formed of min 1/8 in. (2.3 mm) thick aluminium. The annular space between the cable trays and the periphery of the opening to be a min 3/4 in. (18 mm) to a max 2 in. (48 mm). Cable trays to be rigidly supported on both sides of the wall assembly.

3. Cables

Aggregate cross-sectional area of cables in cable tray not to exceed 5 percent of the cross-sectional area of the aperture/ opening on a max 1-7/8 in. (48 mm) cable loading depth within the tray. The following types and sizes of cables may be used:

A. Max 20/C No. 19 AWG (0.6 mm) diam (or smaller), copper conductor telecommunication cables PE jacket.

4. Firestop System

The Firestop System shall consist of the following:

A. Packing material – Nom 2-3/8 in. (60 mm) thick mineral wool boards min 9.3 pcf (150 kg/m³) firmly packed into the opening of the wall as a permanent form. Packing material to be installed flush with both surfaces of wall.

B. Fill, Void or Cavity Material* – Min 1/16 in. (2 mm) dry film thickness to be applied inside the aperture before installation and over the full surface of the mineral wool boards, and overlapping onto the wall by min. 3/4 in. (20 mm). Min 1/32 in. (1 mm) dry film thickness to be applied over the surface of the cables and tray to a minimum length of 7-7/8 in. (200 mm) from both faces of the board.

Flamro Brandschutz-Systeme GmbH – FLAMMOTECT-A

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