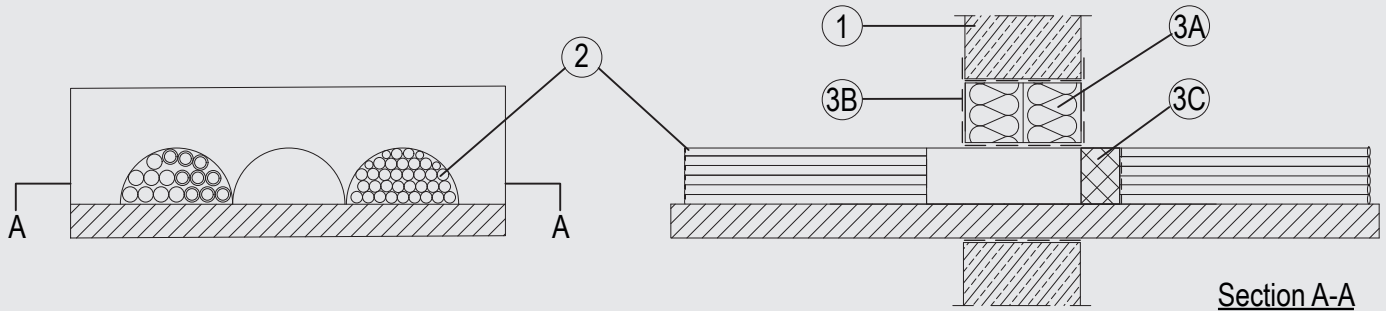


# Through-penetration Firestop Systems

## System No. W-J-8080

ANSI/UL1479 (ASTM E814)	CAN / ULC S115
F Rating – 2 Hr	F Rating – 2 Hr
T Rating – 2 Hr	FT Rating – 2 Hr
	FH Rating – 2 Hr
	FTH Rating – 2 Hr



### 1. Wall Assembly

Min. 4-1/2 in. (115 mm) thick lightweight or normal weight (100-150 pcf or 1600 - 2400 kg/m<sup>3</sup>) concrete. Wall may also be constructed of any UL Classified Concrete Blocks\*. Opening shall be rectangular or circular with max dimensions of 2.1 in. (52 mm). See Concrete Blocks (CAZT) in the Fire Resistance Directory for names of manufacturers.

### 2. Services

Cables and conduits max. 2-3/8 in. (100 mm) diameter semicircle bundles in CT ML half shells, positioned at floor level. Annular space between the CT ML half shells and the periphery of the opening to be 1 in (25 mm) and containing the following services:

- A. 5/8 in. (16 mm) diameter PE/PP flex conduit.
- B. Max 5/C No. 15 AWG (1.5 mm) diameter (or smaller), copper conductor cable with EPR insulation and Rubber jacket.
- C. Max 5/C No. 15 AWG (1.5 mm) diameter (or smaller), copper conductor cable with XPLE insulation and EVA jacket.
- D. Max 5/C No. 15 AWG (1.5 mm) diameter (or smaller), copper conductor cable with PVC insulation and PVC jacket.
- E. Max 20/C No. 23 AWG (0.6 mm) diameter (or smaller), copper conductor telecommunication cable with PE jacket.
- F. Max 3/C No. 15 AWG (1.5 mm) diameter (or smaller), copper conductor cable with NYM insulation.

### 3. 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. 3.7 pcf (60 kg/m<sup>3</sup>) 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, coating the inside surface of the opening before installation of the packing material 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 8 in. (200 mm) from both faces of the board.

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- C. Firestop Device\* – 7-7/8 in. (200 mm) long, half pipe wrap positioned centrally within the seal at floor level and wrapped around the cables.

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\*Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively. Reprinted from Product iQ with permission from UL Solutions. ©2024 UL LLC.