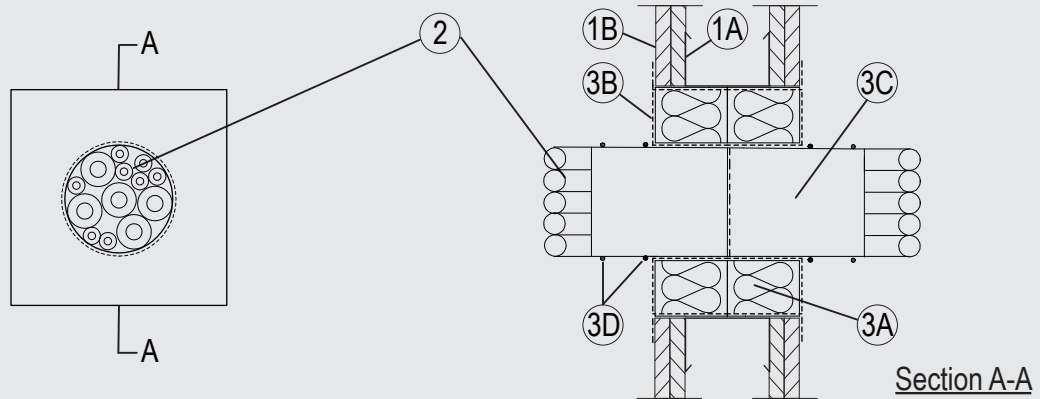


# Through-penetration Firestop Systems

## System No. W-L-8111

ANSI/UL1479 (ASTM E814)	CAN / ULC S115
F Rating – 2 Hr	F Rating – 2 Hr
T Rating – 1-1/2 Hr	FT Rating – 1-1/2 Hr
	FH Rating – 2 Hr
	FTH Rating – 1-1/2 Hr



System tested with a pressure differential of 2.5 Pa between the exposed and the unexposed surfaces with the higher pressure on the exposed side.

### 1. Wall Assembly

The 1 or 2 hr fire rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner described in the individual U400, V400 or W400 Series Wall and Partition Design in the UL Fire Resistance Directory and shall include the following construction features:

- A. Studs – Steel studs to be min 2-3/4 in. (70 mm) wide spaced max 24 in. (610 mm) OC. Additional studs used to completely frame the opening.
- B. Gypsum Board\* – The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual Wall and Partition Design in the UL Fire Resistance Directory. Max size of framed opening to be 7-7/8 in. (200 mm) high by 7-7/8 in. (200 mm) wide.

### 2. Services

1-1/4 in. (32 mm) diameter (or smaller) PE-HD conduit in bundles of diameter 4 in. (100 mm) or smaller, containing the following cables:

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

### 3. Firestop System

The Firestop System shall consist of the following:

- A. Packing material – 2 layers of Nom. 2-3/8 in. (60 mm) thick mineral wool board min. 9.3 pcf (150 kg/m<sup>3</sup>) firmly packed into the opening of the wall or floor as a permanent form, 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) on both sides of wall.

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- C. Fill, Void or Cavity Material\* – 2 lengths of 3 layers of 1/16 in (1.5 mm) by 5 in. (125 mm) wrap butt jointed centrally within the depth of the seal around the conduit to a total length of 10 in. (250 mm).

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- D. 24 AWG Steel wire tied around 3C at nominally 1 in. (25 mm) and 2 in. (51 mm) from both faces of the seal.

\*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.