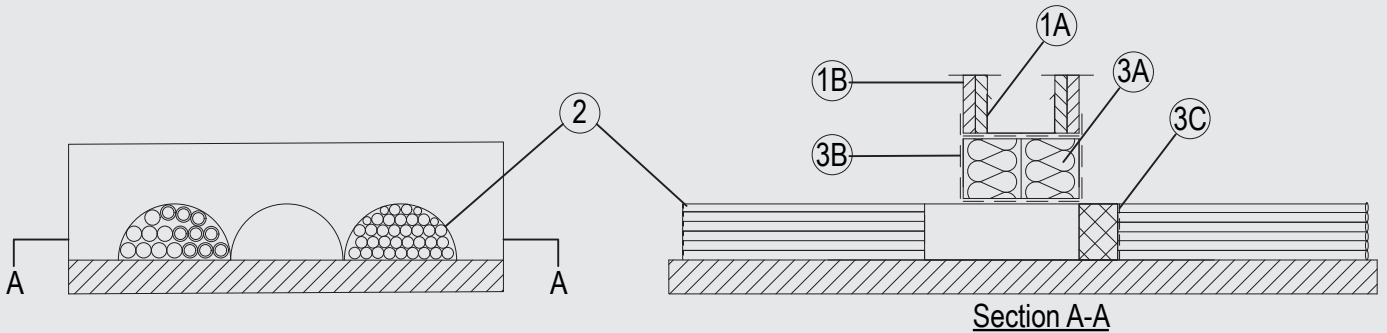


Through-penetration Firestop Systems

System No. W-L-8115

ANSI / UL 1479 (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

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 4-3/4 in. (120 mm) high by 17-3/4 in. (450 mm) wide.

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 – 2 layers of Nom. 2-3/8 in. (60 mm) thick mineral wool board min. 9.3 pcf (150 kg/m³) firmly packed into the opening of the wall 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). 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.

Flamro Brandschutz-Systeme GmbH – FLAMMOTECT-A

- 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.

Flamro Brandschutz-Systeme GmbH – Cable Tube ML

*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.