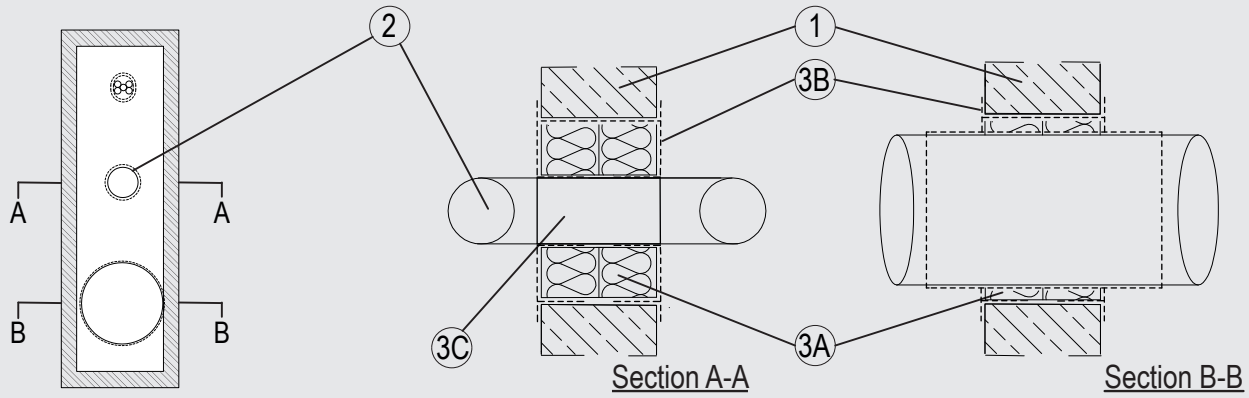
Through-penetration Firestop Systems

System No. W-J-8062

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

Min 4-1/2 in. (115 mm) thick lightweight or normal weight (100-150 pcf or 1600-2400 kg/m^3) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Opening shall be rectangular with max dimensions of 23-5/8 in. (500 mm) by 6-1/4 in. (160 mm).

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

2.Services

Services to be incorporated shall consist of the following:

A. Max 1/C 148 mm diameter (or smaller), copper conductor cable with XLPE insulation and HDPE jacket. The annular space between the cable and the periphery of the opening to be 0-2 in (0-50 mm).

B. Nominal 1-1/2 in (37mm) diameter PE-HD SRV-G 7x10 tc 'speed pipe' for use in closed (process or supply) piping systems. The annular space between the pipe and the periphery of the opening to be 2 in (50 mm).

C. Nominal 2-1/4 in. (56 mm) diameter HD 240 synthetic rubber hydraulic hose for use in closed (process or supply) piping systems. The annular space between the pipe and the periphery of the opening to be 2 in (50 mm).

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^3) firmly packed into the opening of the wall as a permanent form.

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 10 in. (254 mm) from both faces of the board.

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C. Fill, Void or Cavity Material* — 1 layer of 1/16 in (1.5 mm) by 5 in. (125 mm) wrap positioned centrally within the depth of the seal around hydraulic pipe. 2 layers of 1/16 in (1.5 mm) by 5 in. (125 mm) wrap positioned centrally within the depth of the seal around speed pipe.

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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.

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