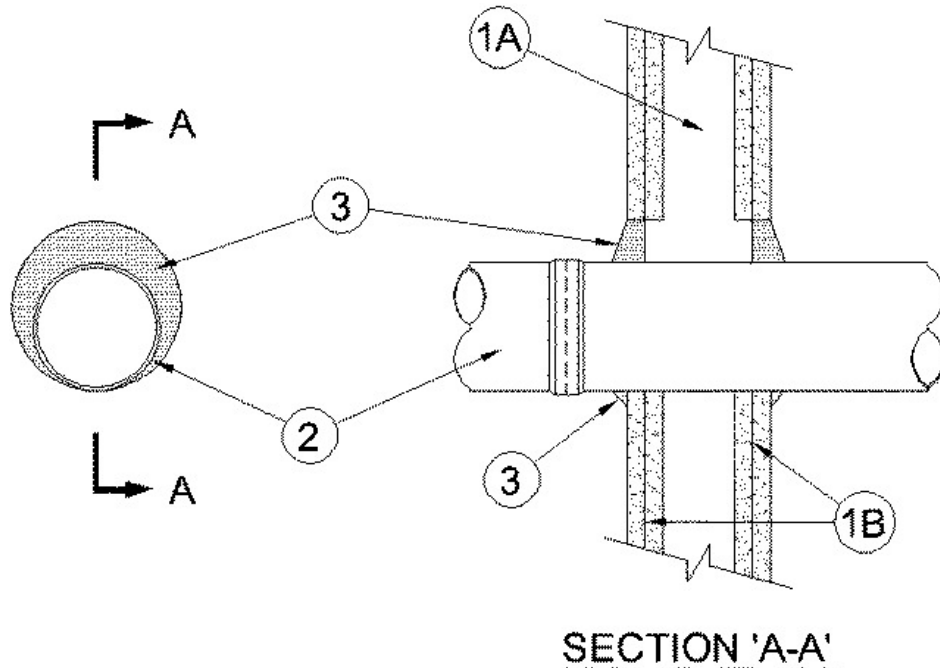


ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings - 1 and 2 Hr (See Item 1)	F Ratings - 1 and 2 Hr (See Item 1)
T Ratings - 0 Hr	FT Ratings - 0 Hr
L Rating At Ambient - Less Than 1 CFM/sq ft	FH Ratings - 1 and 2 Hr (See Item 1)
L Rating At 400 F - Less Than 1 CFM/sq ft	FTH Ratings - 0 Hr
	L Rating At Ambient - Less Than 1 CFM/sq ft
	L Rating At 400 F - Less Than 1 CFM/sq ft



1. Wall Assembly — The 1 or 2 hr fire rated gypsum board/stud wall assembly shall be constructed of the material and in the manner specified in the individual U300, U400, or V400 or W400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features.

A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 3-5/8 in. (92 mm) wide and spaced max 24 in. (610 mm) OC.

B. Gypsum Board* — Nom 5/8 in. (16 mm) thick, 4 ft (1.2 m) wide with square or tapered edges. The gypsum board thickness, type, number of layers, fastener types and sheet orientation shall be as specified in the individual Wall and Partition Design. Max diam of opening is 8 in. (203 mm).

The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.

2. Through Penetrating Products* - Glass Pipe — Nom 6 in. (152 mm) diam (or smaller) glass pipe installed concentrically or eccentrically in opening, for use in closed (process or supply) or vented (drain, waste or vent) piping systems. The annular space between pipe and periphery of opening shall be min 0 in. to max 1-3/8 in. (35 mm). Pipe to be rigidly supported on both sides of wall assembly. Pipe connections to be located a min 3 in. (76 mm) from wall surfaces.

The max diam of the glass pipe permitted within the firestop system is dependent upon the type of fill material (Item 3) used as shown in Item 3.

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3. Fill, Void, or Cavity Materials* - Sealant — Min thickness of 5/8 in. (16 mm) applied within the annulus between pipe and periphery of the opening, flush with both surfaces of wall assembly. Additional sealant to be applied such that a min 1/4 in. (6 mm) crown is formed around the through penetrant on both surfaces of wall.

The max diam of the glass pipe permitted within the firestop system is dependent upon the type of fill material as shown in the table below:

Type of Fill Material	Max Diam of Glass Pipe, in. (mm)
FlameSafe® FS 900+	6 (152)
FlameSafe®FS1900, Metacaulk 1000 , Metacaulk 350i , Biostop 350i or Biostop 500+	4 (102)

RECTORSEAL — FlameSafe® FS1900, FlameSafe® FS900+, [Metacaulk MC 150+](#), [Metacaulk 1000](#), [Metacaulk 350i](#), Biostop [BF150+](#), Biostop 350i or Biostop 500+

*,+ 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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