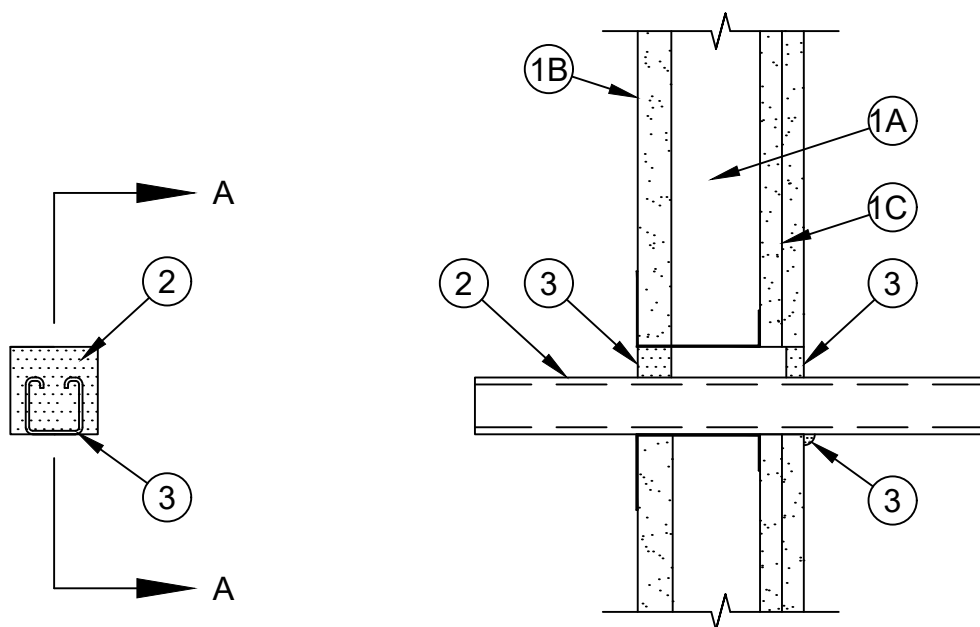




ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings - 1 and 2 Hr (See Item 1)	F Ratings - 1 and 2 Hr (See Item 1)
T Ratings - 0, 1 and 1-1/2 Hr (See Item 2)	FT Ratings - 0, 1 and 1-1/2 Hr (See Item 2)
L Rating At Ambient - Less Than 1 CFM/sq ft	FH Ratings - 1 and 2 Hr (See Item 1)
L Rating At 400 F - Less Than 1 CFM/sq ft	FTH Ratings - 0, 1 and 1-1/2 Hr (See Item 2)
	L Rating At Ambient - Less Than 5.1 L/s/m ²
	L Rating At 204 C - Less Than 5.1 L/s/m ²



SECTION A-A

1. **Wall Assembly** - The 1 or 2 hr fire-rated gypsum board/stud shaft wall assembly shall be constructed of the materials and in the manner specified in the individual U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall incorporate the following construction features:
 - A. **Steel Studs** - "C-H" or "C-T" shaped studs, min 2-1/2 in. (64 mm) wide by 1-1/2 in. (38 mm) deep, fabricated from min No. 25 gauge (0.6 mm thick) galv steel, spaced max 24 in. (610 mm) OC.
 - B. **Gypsum Board*** - 1 in. (25 mm) thick, 24 in. (610 mm) wide gypsum liner panels installed vertically. Max area of opening in gypsum liner panel is 8-3/4 sq in. (56 cm²) with a max dimension of 3-1/2 in. (89 mm). The opening cutout shall follow the contour of the penetrant when steel angle is used.
 - C. **Gypsum Board*** - 1/2 in. or 5/8 in. (13 or 16 mm) thick, 48 in. (1.2 m) wide gypsum boards. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual Wall and Partition Design. Max area of opening in gypsum board is 8-3/4 sq in. (56 cm²) with a max dimension of 3-1/2 in. (89 mm). The opening cutout shall follow the contour of the penetrant when steel angle is used.

The F and FH Ratings of the firestop system are equal to the hourly fire rating of the wall in which it is installed.



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2. **Penetrant** - One metallic strut, steel angle, cable or rod service support to be installed either concentrically or eccentrically within the firestop system. The annular space between the penetrant and the periphery of opening shall be min 0 in. (point contact) to max 7/8 in. (22 mm). Penetrant shall be rigidly supported on both sides of the wall assembly. The penetrant may be installed at an angle not greater than 45 degrees from the perpendicular. The following types and sizes of metallic strut, steel angle, cable or rod service support may be used:

- A. **Steel Strut** - Max 1-5/8 by 1-5/8 in. (41 by 41 mm) channel strut formed from min 0.105 in. (2.7 mm) thick galv or painted steel.
- B. **Steel Strut** - Max 3-1/4 by 1-5/8 in. (83 by 41 mm) H strut formed from min 0.105 in. (2.7 mm) thick galv or painted steel.
- C. **Steel Angle** - Max 2 by 2 in. (51 by 51 mm) by min 1/8 in. (3.2 mm) thick or max 3 by 3 in. (76 by 76 mm) by min 1/4 in. (6 mm) thick steel angle.
- D. **Cable** - Max 3/8 in. (9.5 mm) diam unjacketed galv steel cable.
- E. **Threaded Rod** - Max 5/8 in. (16 mm) diam galv steel threaded rod.

The T, FT and FTH Ratings when Items 2A and 2B are used is 1 hr and 1-1/2 hr for 1 hr and 2 hr fire-rated walls, respectively. Otherwise, the T, FT and FTH Ratings are 0 hr.

3. **Fill, Void or Cavity Materials* - Sealant** - Min 1 in. (25 mm) thickness of fill material applied within annulus and within the channel struts, flush with the surface of the gypsum liner panel. Min 5/8 in. (16 mm) thickness of fill material applied within the annulus and within the channel struts, flush with the surface of the gypsum board on the finished side of the wall. At point contact location, min 3/8 in. (10 mm) diam bead of fill material to be applied at the penetrant/gypsum board interface on the finished side of the wall.

SPECIFIED TECHNOLOGIES INC - SpecSeal Series SSS Sealant, SpecSeal LCI Sealant or SpecSeal LC150 Sealant

*** 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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