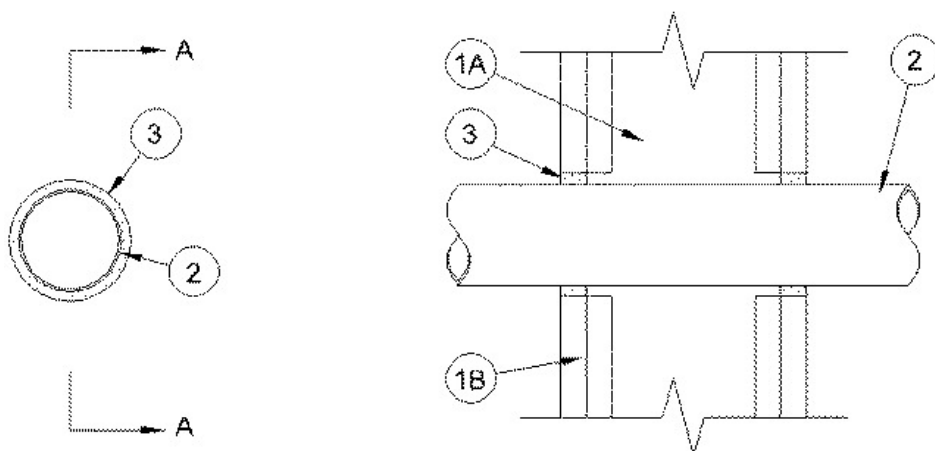


ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Rating — 1 or 2 Hr (See Item 1)	F Rating — 1 or 2 Hr (See Item 1)
T Rating — 0, 1, 1-3/4 or 2 Hr (See Item 2)	FT Rating — 0, 1, 1-3/4 or 2 Hr (See Item 2)
M Rating (Movement) — See Table 1	FH Rating — 1 or 2 Hr (See Item 1)
	FTH Rating — 0, 1, 1-3/4 or 2 Hr (See Item 2)



Section A-A

System tested with a pressure differential of 50 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 specified in the individual U300, U400, 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) O.C. Steel channel studs to be min 3-1/2 in. (89 mm) wide and spaced max 24 in. (610 mm) O.C.

B. Gypsum Board* — 5/8 in. (16 mm) thick, 4 ft. (1.2 m) wide with square or tapered edges. Thickness, type, number of layers and fastener type as specified in the individual Wall and Partition Design. Max diam of opening 3 in. (76 mm).

2. Through Penetrant — One nonmetallic pipe or conduit to be installed either concentrically or eccentrically within the firestop system. Pipe or conduit to be rigidly supported on both sides of wall assembly. The following types and sizes of nonmetallic pipes or conduit and annular spacing may be used:

A. Polyvinyl Chloride (PVC) Pipe — Nom 2 in. (51 mm) diam (or smaller) PS 100 PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping system. The annular space shall be min 1/4 in. (6 mm) to max 3/4 in. (19 mm). **The F, T, FH and FTH Ratings are equal to the 1 or 2 hr fire rating of the wall assembly in which it is installed.**

B. Chlorinated Polyvinyl Chloride (CPVC) Pipe — Nom 2 in. (51 mm) diam (or smaller) SDR 13.5 CPVC pipe for use in closed (process or supply) piping system. The annular space shall be min 1/4 in. (6 mm) to max 3/4 in. (19 mm). **The F, T, FH and FTH Ratings are equal to the 1 or 2 hr fire rating of the wall assembly in which it is installed.**

C. Rigid Electrical Non-Metallic Conduit (RNMC) — Nom 2 in. (51 mm) diam (or smaller) PVC conduit installed in accordance with Article 331 of the National Electrical Code (NFPA 70). The annular space shall be min 1/4 to max 3/4 in. (6 mm to max 19 mm) **The F, T, FH and FTH Ratings are equal to the 1 or 2 hr fire rating of the wall assembly in which it is installed.**

D. Polyvinyl Chloride (PVC) Pipe — Nom 2 in. (51 mm) diam (or smaller) Schedule 40 PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping system. The annular space shall be min 0 in. (point contact) or 1/4 in. (6 mm) to max 3/4 in. (19 mm). **When M Ratings are applied the annular space is a min 1/4 in. (6 mm). The F and FH Ratings are equal to the 1 or 2 hr fire rating of the wall assembly in which it is installed. The T and FTH Ratings are 0 and 1-3/4 hr for 1 and 2 hr fire rated walls, respectively.**

3. Fill, Void or Cavity Material* - Sealant — Min 5/8 in. (16 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall. At point contact location between Schedule 40 PVC pipe and gypsum board, a min 1/2 in. (13 mm) diam bead of fill material shall be applied at pipe/gypsum board interface on both sides of wall.

RECTORSEAL — [Metacaulk 1000](#) or [Metacaulk 350i](#)

The M Rating for the firestop system is dependent on the variables as noted in the Table 1 below.

Table 1

Movement Direction	Penetrant Item	Nominal Penetrant Diameter	Annular Space	Movement	Sealant Depth	F Rating	L Rating
Y	A,B,C,D	2 in. (51 mm)	Max 3/4 in. (19 mm)	5%	5/8 in. (16 mm)	2 hr	N/A
Z	A,B,C,D	2 in. (51 mm)	3/4 in. (19 mm)	0.25 in. (6 mm)	5/8 in. (16 mm)	2 hr	N/A

The system is limited to ANSI/UL 1479 (ASTM E 814) F and T Ratings when M Rating is applied.

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.