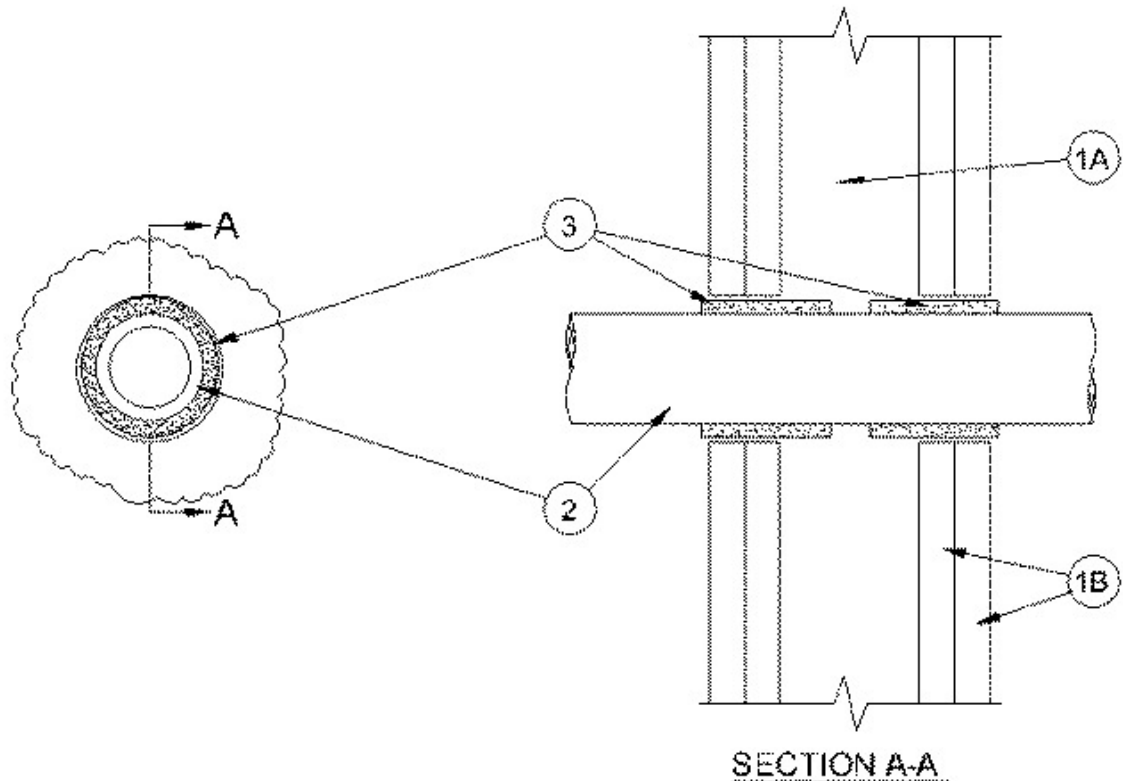


UL - Through-penetration Firestop Systems Certified for Canada

UL System No. W-L-2372

November 25, 2003

F Rating — 1 or 2 Hr (See item 3)
FT Ratings — 3/4 or 1 Hr (See item 3)
FH Ratings — 1 or 2 Hr (See item 3)
FTH Ratings — 3/4 or 1 Hr (See item 3)



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 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory. The wall assembly shall include the following construction features:

A. Studs — Wall framing shall consist of either wood or steel channel studs. Wood studs to consist of nom 51 by 102 mm (2 by 4 in.) lumber spaced 400 mm (15.7 in.) OC. Steel studs to be min 89 mm (3-1/2 in.) deep and spaced max 610 mm (24 in.) OC.

B. Gypsum Board* — Min 16 mm (5/8 in.) thick, 1.22 m (4 ft) wide with square or tapered edges. The gypsum board type, thickness, number of layers and orientation shall be as specified in the individual U400 Wall and Partition Design. Max diam of opening is 76 mm (3 in.).

2. Through Penetrants — One nonmetallic pipe to be positioned within a nom 8 to 10 mm (5/16 to 13/32 in.) range of annular space within the firestop system. Pipe to be rigidly supported on both sides of wall assembly. The following types and sizes of nonmetallic pipes may be used:

A. Acrylonitrile Butadiene Styrene (ABS) Pipe — Nom 51 mm (2 in.) diam (or smaller) Schedule 40 cellular or solid core ABS pipe for use in vented (drain, waste or vent) piping systems.

B. Polyvinyl Chloride (PVC) Pipe — Nom 38 mm (1-1/2 in.) diam (or smaller) Schedule 40 cellular or solid core PVC pipe for use in vented (drain, waste or vent) piping systems.

C. Cross Linked Polyethylene (PEX) Tubing — Nom. 25 mm (1 in.) diam (or smaller) SDR 9 PEX tubing for use in closed (process or supply) piping systems.

3. Firestop System — The firestop system shall consist of the following:

A. Fill, Void or Cavity Material* — Wrap Strip — One layer of nom 6 mm (1/4 in.) thick by 51 mm (2 in.) wide intumescent wrap strip tightly wrapped around the outer circumference of the pipe and slid into the annular space on each side of wall such that wrap strip extends 3 mm (1/8 in.) beyond both surfaces of wall. Wrap strip secured with tape, wire or tie wire. One layer of nom 6 mm (1/4 in.) thick by 25 mm (1 in.) wide intumescent wrap strip. The wrap strip is continuously wrapped once around the outer circumference of the pipe, secured with tape and slid into annular space such that the ends extend a max of 6 mm (1/4 in.) beyond the surface of the wall. Wrap strips are installed on each surface of the wall. The F, FT, FH, and FTH Ratings are dependent upon the pipe type, the nom pipe diam, the wall rating and the wrap strip width, as shown in the following table.

Pipe Type	Nom Pipe Diam mm (in.)	Min Wall Hourly Rating	Wrap Strip Width mm (in.)	F Rating Hr	FT Rating Hr	FH Rating Hr	FTH Rating Hr
ABS	0 to 51 (0 to 2)	2	51 (2)	2	0	2	0
PVC	0 to 38 (0 to 1-1/2)	1	25 (1)	1	3/4	1	3/4
PEX	0 to 25 (0 to 1)	1	25 (1)	1	1	1	1

A/D FIRE PROTECTION SYSTEMS INC — A/D FIREBARRIER Wrap Strip

*Bearing the UL Classification Mark