



### System No. W-L-2400

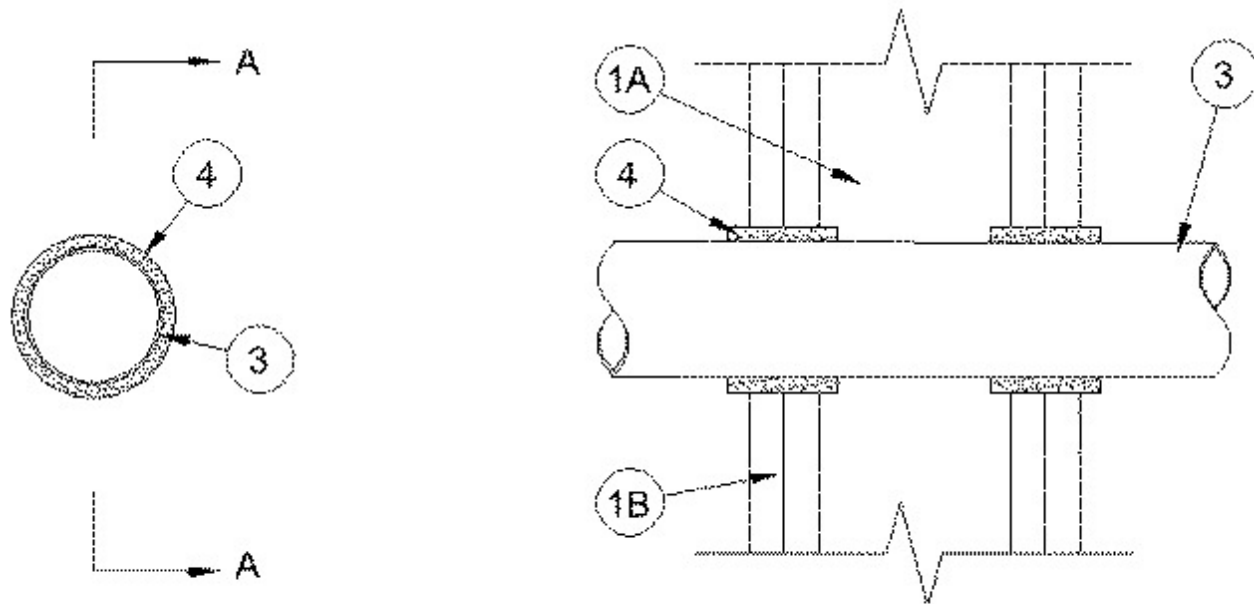
February 01, 2005

F Ratings - 1 or 2 Hr (See Item 1)

T Ratings - 1/4 or 1 Hr (See Item 2)

FH Ratings - 1 or 2 Hr (See Item 1)

FTH Ratings - 1/4 or 1 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 or V400 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 51 by 102 mm lumber spaced 406 mm O.C. Steel channel studs to be min 89 mm wide and spaced max 610 mm O.C. Additional studs shall be used to completely frame the opening.

B. **Gypsum Board\*** — 16 mm thick, 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 102 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. **Steel Sleeve - (Optional, Not Shown)** — Cylindrical sleeve fabricated from 0.5 mm thick (No. 26 gauge) galv sheet steel and having a min 25 mm lap along the longitudinal seam. Length of steel sleeve to project 13 mm beyond both surfaces of the wall. Sleeve installed by coiling the sheet steel to a diam smaller than the through opening, inserting the coil through the openings and releasing the coil to let it uncoil against the circular openings in the wall. When steel sleeve is used T Rating is 1 Hr.

**3. Through Penetrant** — One nonmetallic pipe to be installed concentrically within the firestop system. The annular space shall be max 6 mm. Pipe to be rigidly supported on both sides of wall assembly. The following types and sizes of nonmetallic pipes may be used:

**A. Polyvinyl Chloride (PVC) Pipe** — Nom 76 mm diam (or smaller) Schedule 40 solid core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping system.

**B. Chlorinated Polyvinyl Chloride (CPVC) Pipe** — Nom 76 mm diam (or smaller) SDR 13.5 CPVC pipe for use in closed (process or supply) piping system.

**C. Rigid Electrical Non-Metallic Conduit (RNMC)** — Nom 51 mm (or smaller) PVC conduit installed in accordance with Article 331 of the National Electrical Code (NFPA 70).

**D. Acrylonitrile Butadiene Styrene (ABS) Pipe** — Nom 76 mm diam (or smaller) Schedule 40 solid or cellular core ABS pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.

**4. Fill, Void or Cavity Material\* — Wrap Strip** — One layer of 51 mm wide wrap strip wrapped around through-penetrant with the ends butted and held in place with masking tape. Wrap strip to protrude 10 mm from both surfaces of wall.

**RECTORSEAL** — Metacaulk Wrap Strip

\*Bearing the UL Classification Mark