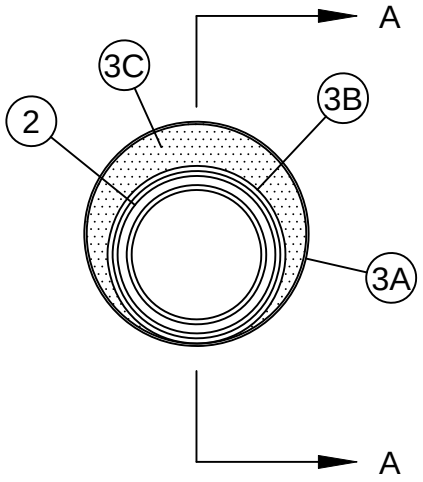
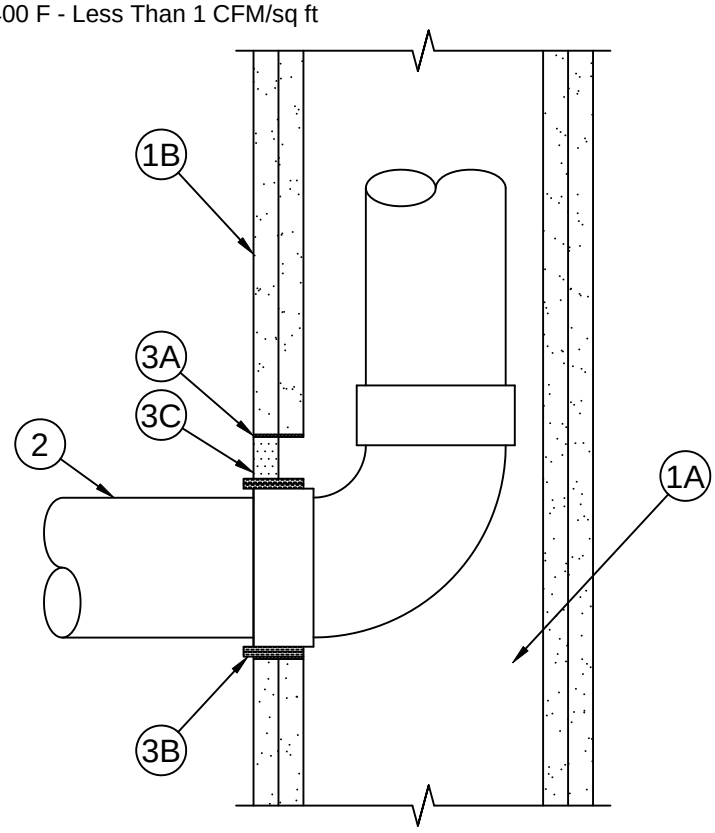
# System No. W-L-2636

F Ratings - 1 and 2 Hr (See Item 1)
T Ratings - 1 and 2 Hr (See Item 1)
L Rating At Ambient - Less Than 1 CFM/sq ft
L Rating At 400 F - Less Than 1 CFM/sq ft




SECTION A-A

1. **Wall Assembly -** The 1 or 2 hr fire-rated gypsum wallboard/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 Design in the UL Fire Resistance Directory and shall include the following construction features:

   A. **Studs -** Wall framing to consist of nom 2 by 6 in. (51 by 152 mm) (or larger) wood or steel channel studs or doubled or staggered nom 2 by 4 in. (51 by 102 mm) (or larger) wood studs spaced in accordance with the individual U300, U400, V400 or W400 Series Wall and Partition Designs.

   B. **Gypsum Board* -** One or two layers of nom 5/8 in. (16 mm) thick gypsum board as specified in the individual Wall and Partition Design. Max diam of opening is 5-1/2 in. (140 mm).

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

2. **Nonmetallic Penetrant -** One nonmetallic pipe or conduit to be installed within stud cavity and connected to a 90° elbow. Hub of the elbow may be recessed into the annular space within the opening. Additional nonmetallic pipe or conduit shall be connected to elbow and penetrate one side of the wall either concentrically or eccentrically within the firestop system. The annular space between pipe or conduit and periphery of the opening shall be min 1/4 in. (6 mm) to max 1-1/4 in. (32 mm). Pipe or conduit shall be rigidly supported within the wall and on the penetrated side of the wall assembly. The following types and sizes of nonmetallic pipes or conduits may be used:

   A. **Polyvinyl Chloride (PVC) Pipe -** Nom 3 in. (76 mm) diam (or smaller) Schedule 40 solid or cellular core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.

   B. **Chlorinated Polyvinyl Chloride (CPVC) Pipe -** Nom 3 in. (76 mm) diam (or smaller) SDR 13.5 CPVC pipe for use in closed (process or supply) piping systems.

   C. **Rigid Nonmetallic Conduit+ -** Nom 3 in. (76 mm) diam (or smaller) Schedule 40 PVC conduit installed in accordance with the National Electrical Code (NFPA 70).

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

   A. **Metallic Sleeve -** Cylindrical sleeve fabricated from min 0.016 in. (0.4 mm) thick (30 gauge) galv sheet steel and having a 1 in. (25 mm) lap along the longitudinal seam. Length of steel sleeve to be 5/8 in. (16 mm) in 1 hr fire rated walls and 1-1/4 in. (32 mm) in 2 hr fire rated walls. Sleeve installed by coiling the sheet steel to a diam smaller than the opening, inserting the coil into the opening and releasing the coil to let it uncoil against the circular cutout in the wallboard layers. Sleeve shall be installed flush with wall surfaces on the penetrated side of the wall assembly.

   B. **Fill, Void or Cavity Material* - Wrap Strip -** Nom 1/4 in. (6 mm) thick by 1-1/2 in. (38 mm) wide (RED), 1/8 in. (3.2 mm) thick by 1-1/2 in. (38 mm) wide (RED2), 3/16 in. (4.8 mm) thick by 2 in. (51 mm) wide (BLU), 1/8 in. (3.2 mm) thick by 2 in. (51 mm) wide (BLU2), intumescent strips faced on both sides with a plastic film. Two layers of wrap strip individually wrapped around the through penetrant with the ends butted or continuously wrapped around the penetrant and held in place by means of foil tape. The wrap strip is slid along the penetrant into annulus such that the trailing edge of the wrap strip extends 1/4 in. (6 mm) from the surface of the wall.

      **SPECIFIED TECHNOLOGIES INC** - SpecSeal RED, RED2, BLU, or BLU2 Wrap Strip

   C. **Fill, Void or Cavity Material* - Sealant -** Min 5/8 in. (16 mm) thickness of fill material applied within annulus, flush with surface of wall assembly.

      **SPECIFIED TECHNOLOGIES INC** - SpecSeal Series SSS Sealant or SpecSeal LCI Sealant

      +Bearing the UL Listing Mark

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