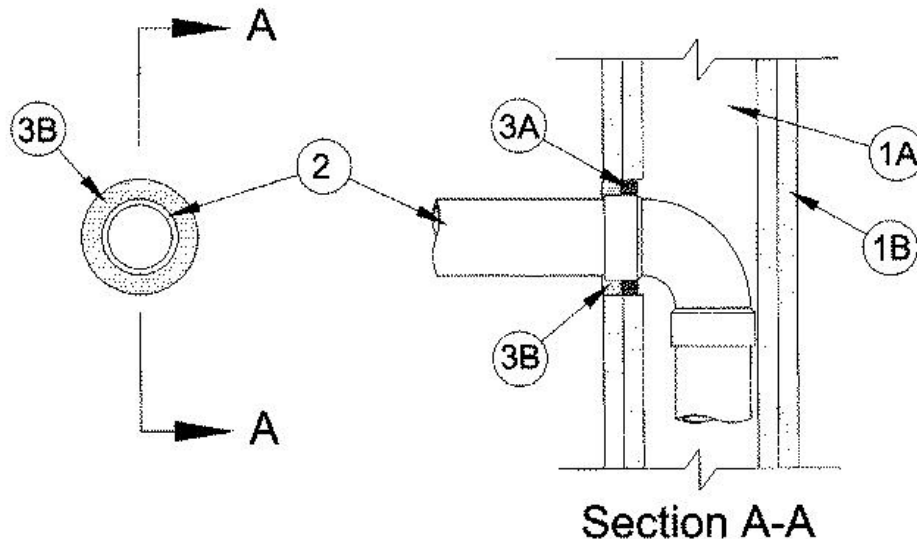


F Ratings — 1 and 2 Hr (See Item 1)
T Ratings — 1, 1-3/4 and 2 Hr (See Item 1)



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 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

A. **Studs** — Wall framing shall consist of wood studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC.

B. **Gypsum Board*** — Min 5/8 in. thick, 4 ft wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers and orientation shall be as specified in the individual U300 Wall and Partition Design. Max diam of opening is 3-5/8 in.

The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed. The hourly T Rating of the firestop system is 1 when installed in 1 hr rated walls. The hourly T Rating of the firestop system when installed in 2 hr rated walls is dependent upon which side of the wall is exposed to the fire. If the side opposite the pipe is exposed, the T Rating is 1-3/4 hr. If the side containing the pipe is exposed, the T Rating is 2 hr.

2. Through Penetrants — One nonmetallic pipe installed within stud cavity and connected to a 90° elbow. Additional nonmetallic pipe connected to elbow and penetrates one side of wall concentrically within the opening. The annular space between nonmetallic pipe and periphery of opening shall be nom 5/8 in. Pipe to be rigidly supported within wall and on penetrated side of wall assembly. The following types and sizes of nonmetallic pipes may be used:

A. **Polyvinyl Chloride (PVC) Pipe** — Nom 2 in. diam (or smaller) Schedule 40 cellular or solid core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping system.

B. **Acrylonitrile Butadiene Styrene (ABS) Pipe** — Nom 2 in. diam (or smaller) Schedule 40 cellular or solid core ABS pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.

C. **Chlorinated Polyvinyl Chloride (CPVC) Pipe** — Nom 2 in. diam (or smaller) SDR17 CPVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.

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

A. **Packing Material** — In 2 hr rated wall assemblies, foam backer rod firmly packed into opening as a permanent form. Packing material to be recessed from surface of wall as required to accommodate the required thickness of fill material.

B. **Fill, Void or Cavity Material*—Caulk** — Min 1/2 in. thickness of fill material applied within the annulus, flush with surface of wall.

RECTORSEAL — Biostop 500+ Caulk, [Metacaulk 350i](#) and [MC150+](#).

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