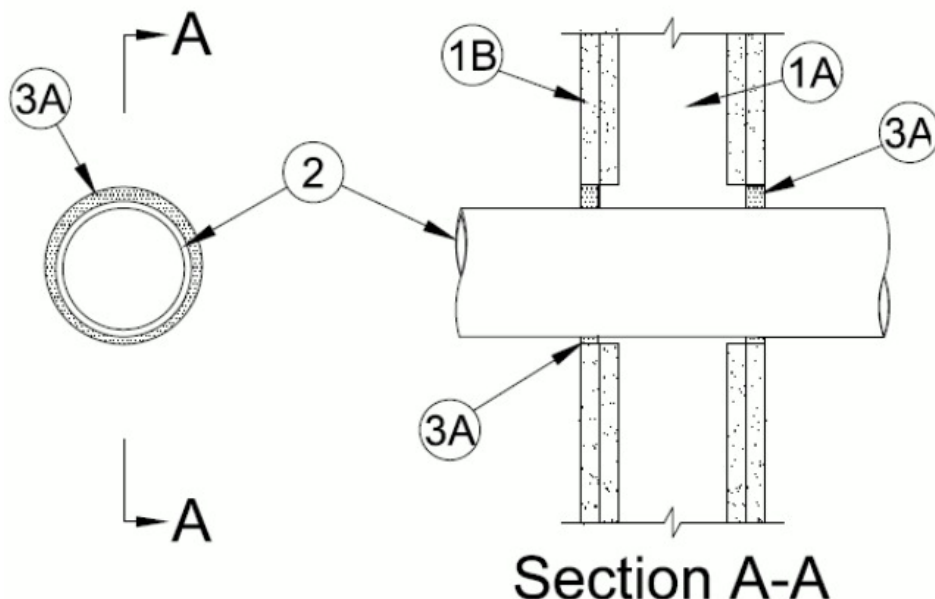


F Rating — 1 and 2 Hr (See Item 1)
T Rating — 1 and 2 Hr (See Item 1)



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 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 shall consist of min 3-1/2 in. (89 mm) wide steel channel studs spaced max 24 in. (610 mm) OC.

B. Gypsum Board* — Thickness, type, number of layers and fasteners as required in the individual Wall and Partition Design. For penetrant sizes not exceeding nom 1 in. (25 mm) diam, wall opening to be 1-1/4 in. (32 mm) larger than outer diam of penetrant. For penetrant sizes exceeding nom 1 in. (25 mm) diam, wall opening to be 1 in. (25 mm) larger than outer diam of penetrant.

The 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 Pipe — One nonmetallic pipe to be installed concentrically or eccentrically within the firestop system. The annular space between the pipe and periphery of opening shall be min 1/4 in. (6 mm) to max 1 in. (25 mm) (for pipe sizes not exceeding 1 in. diam) or max 3/4 in. (19 mm) (for pipe sizes exceeding 1 in. diam). Pipe to be rigidly supported on both sides of wall assembly. The following types and sizes of nonmetallic pipe may be used:

A. Polypropylene (PP) Pipe — Nom 2 in. (51 mm) diam (or smaller) Aquatherm Greenpipe SDR 7.4 with Faser PP pipe for use in closed (process or supply) piping systems.

B. Polypropylene (PP-RCT) Pipe — Nom 2 in. (51 mm) diam (or smaller) Niron CoolPro or Niron Clima SDR 7.3 PP-RCT pipe for use in closed (process or supply) piping systems.

C. Polypropylene (PP) Pipe — Nom 2 in. (51 mm) diam (or smaller) Aquatherm Greenpipe SDR 11 PP pipe for use in closed (process or supply) piping systems.

D. Polypropylene (PP-RCT) Pipe — Nom 2 in. (51 mm) diam (or smaller) Niron CoolPro or Niron Nero SDR 11 PP-RCT pipe for use in closed (process or supply) piping systems.

E. Polypropylene (PP) Pipe — Nom 2 in. (51 mm) diam (or smaller) Aquatherm Climatherm SDR 11 with Faser PP pipe for use in closed (process or supply) piping systems.

F. Polypropylene (PP-RCT) Pipe — Nom 2 in. (51 mm) diam (or smaller) Niron Clima SDR 11 PP-RCT pipe 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 Materials* — Min 5/8 in. (16 mm) thickness of sealant applied within annulus, flush with both surfaces of wall assembly.

RECTORSEAL — [Metacaulk 1000](#), [Metacaulk 350i](#), Biostop 500+, Biostop 350i, FS 1900

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