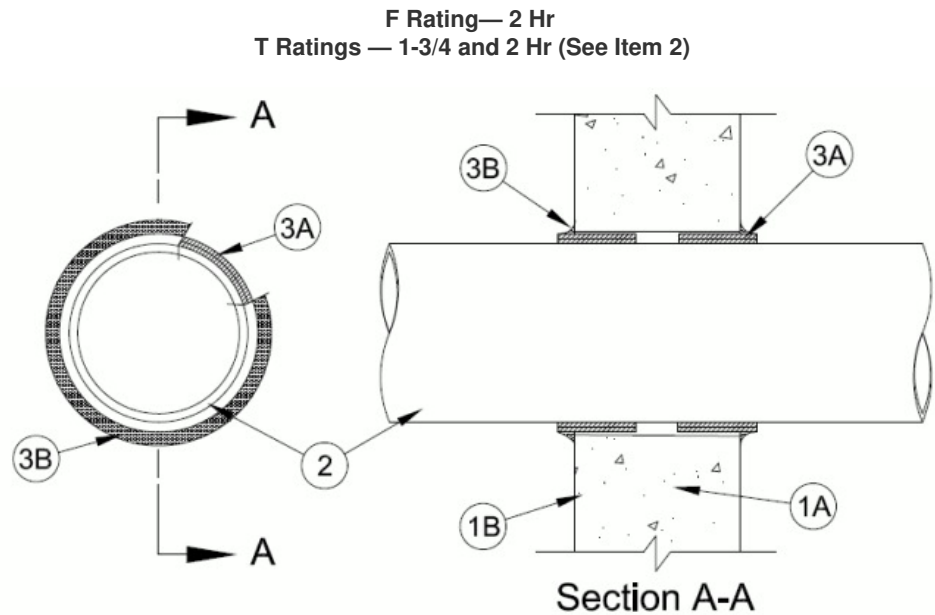




1. **Wall Assembly** — Min 6 in. (152 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete. Wall may also be constructed of any UL Classified **Concrete Blocks***. Max diam of opening is 7-3/8 in. (187 mm). See **Concrete Blocks** (CAZT) in the Fire Resistance Directory for names of manufacturers.
2. **Through Penetrant** — One nonmetallic pipe centered in the firestop system. The annular space between the penetrant and the periphery of opening shall be nom 3/8 in. (9.6 mm). Penetrant to be rigidly supported on both sides of wall assembly. The following types and sizes of nonmetallic pipe may be used:
- A. **Polyvinyl Chloride (PVC or uPVC) Pipe** — Nom 6 in. (152 mm) diam (or smaller) Schedule 40 cellular or solid core PVC or uPVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping system.
- B. **Rigid Nonmetallic Conduit (RNC)*** — Nom 6 in. (152 mm) diam (or smaller) Schedule 40 PVC conduit installed in accordance with the National Electrical Code (NFPA 70).
- C. **Chlorinated Polyvinyl Chloride (CPVC) Pipe** — Nom 6 in. (152 mm) diam (or smaller) SDR 17 CPVC pipe for use in closed (process or supply) piping systems.
- D. **Acrylonitrile Butadiene Styrene (ABS) Pipe** — Nom 4 in. (102 mm) 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.
- The diam and type of penetrant used is dependent upon the T Ratings of the firestop system and the number of layers of wrap strip used as shown in Item 3.

3. **Firestop System** — The firestop system shall consist of the following:
- A. **Fill, Void or Cavity Materials*** — Nom 2 mm thick by 3 in. (76 mm) wide intumescent joint strip tightly wrapped continuously around the outer circumference of the pipe and held in place with tape. Joint strip slid into the annular space on both sides of wall with the outer edges of the joint strip extending 1/2 in. (13 mm) from both surfaces of wall. The number of wrap strips required is dependent upon the nom diam and type of through penetrant as shown in the table below.
- RECTORSEAL** — [Metacaulk Joint Strip](#).

The T Ratings of the firestop system are dependent upon the diam of the penetrant and the number of layers of wrap strip used as shown in the table below:

Type of Penetrant	Diam of Penetrant, in (mm)	Number of Layers of Wrap Strip	T Rating, Hr
ABS Pipe	4 (102)	2	1-3/4

PVC or uPVC Pipe, CPVC Pipe, RNC,	6 (152)	5	2
PVC or uPVC Pipe, CPVC Pipe, RNC,	4 (102)	2	2

B. Fill, Void or Cavity Material* — Caulk — Min 1/2 in. (13 mm) thickness of fill material applied at the joint strip/wall interface on both sides of the wall assembly.

RECTORSEAL — [Metacaulk 1000](#), [Metacaulk 350i](#), [Metacaulk 150+](#)

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