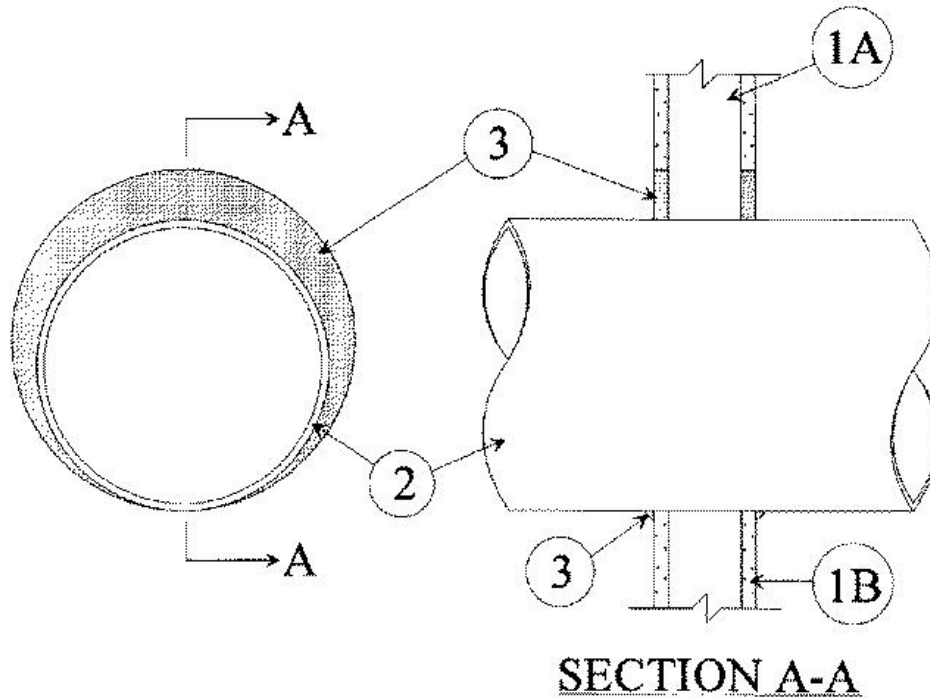


F Rating — 1 Hr
T Rating — 0 Hr



1. Wall Assembly — The fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 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 2 by 4 in. lumber spaced 16 in. OC. Steel studs to be min 2-1/2 in. wide and spaced max 24 in. OC.

B. Gypsum Board* — One layer of nom 5/8 in. thick gypsum wallboard, as specified in the individual Wall and Partition Design. Max diam of opening is 11-3/4 in.

2. Through Penetrants — One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:

A. Steel Pipe — Nom 10 in. diam (or smaller) Schedule 20 (or heavier) steel pipe. The annular space shall be min 0 in. to max 1 in.

B. Iron Pipe — Nom 10 in. diam (or smaller) cast or ductile iron pipe. The annular space shall be min 0 in. to max 1 in.

C. Conduit — Nom 2 in. diam (or smaller) steel electrical metallic tubing or steel conduit. The annular space shall be min 0 in. to max 1 in.

D. Copper Tubing — Nom 2 in. diam (or smaller) Type L (or heavier) copper tubing. The annular space shall be min 0 in. to max 1 in.

E. Copper Pipe — Nom 2 in. diam (or smaller) Regular (or heavier) copper pipe. The annular space shall be min 0 in. to max 1 in.

3. Fill, Void or Cavity Material* — **Caulk** — Min 1/2 in. thickness of fill material applied within the annulus, flush with both surfaces of wall. At the point contact location between pipe and wall, a min 1/4 in. diam bead of fill material shall be applied at the wall/pipe interface on both surfaces of wall.

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