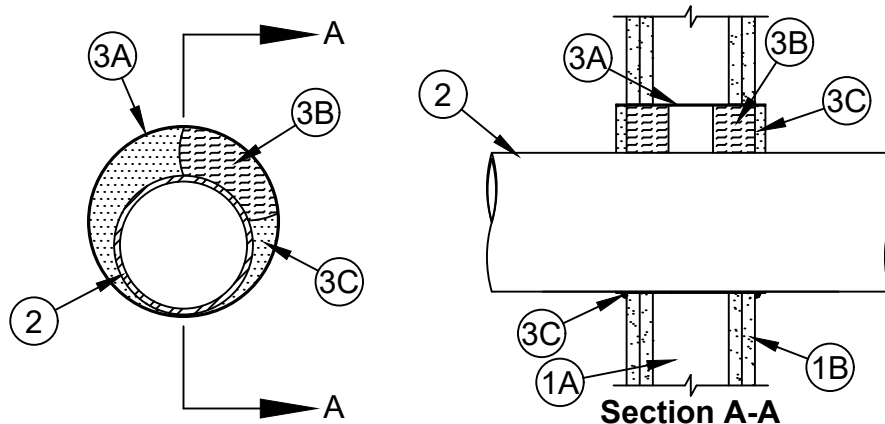




System No. W-L-1079

F Ratings - 1 and 2 Hr (See Item 1B)
T Rating - 0 Hr
L Rating At Ambient - Less Than 1 CFM/sq ft
L Rating At 400 F - Less Than 1 CFM/sq ft



- Wall Assembly** - The 1 or 2 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall or Partition Design in the UL Fire Resistance Directory and shall include the following construction features:
 - 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 with nom 2 by 4 in. lumber end plates and cross braces. Steel studs to be min 3-5/8 in. wide and spaced max 24 in. OC.
 - Gypsum Board*** - 5/8 in. thick, 4 ft wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening in wood stud walls is 13 in. Max diam of opening in steel stud walls is 16 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.
- Through Penetrant** - One metallic pipe or conduit to be installed either concentrically or eccentrically within the firestop system. The annular space between pipes or conduits and periphery of opening shall be min 0 in. (point contact) to max 3 in. Pipe or conduit to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes or conduits may be used:
 - Steel Pipe** - Nom 12 in. diam (or smaller) Schedule 10 (or heavier) steel pipe.
 - Iron Pipe** - Nom 12 in. diam (or smaller) cast or ductile iron pipe.
 - Conduit** - Nom 4 in. diam (or smaller) electrical metallic tubing, nom 6 in. diam (or smaller) steel conduit or nom 1 in. diam (or smaller) flexible steel tubing.
 - Copper Pipe** - Nom 6 in. diam (or smaller) Regular (or heavier) copper pipe.
 - Copper Tube** - Nom 6 in. diam (or smaller) Type L (or heavier) copper tube.



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

- A. **Metallic Sleeve** - Cylindrical sleeve fabricated from 0.0165 in. thick (28 gauge) galv sheet steel and having a min 2 in. lap along the longitudinal seam. Length of steel sleeve to be equal to or max 6 in. greater than the thickness of wall. Sleeve installed by coiling the sheet steel to a diam smaller than the through opening, inserting the coil through the openings and releasing the coil to let it uncoil against the circular cutouts in the gypsum wallboard layers. The ends of the steel sleeve shall be flush with or extend max 3 in. beyond each surface of the wall.
- B. **Packing Material** - Min 2 in. thickness of min 4 pcf mineral wool batt insulation tightly packed into annular space between metallic pipe, conduit or tubing and steel sleeve on both sides of the wall assembly+. Packing material to be recessed from each end of steel sleeve as required to accommodate the required thickness of fill material.
- C. **Fill, Void or Cavity Material* - Sealant** - Min 1/2 in. thickness of fill material within annulus, flush with ends of steel sleeve. A min 1/4 in. diam bead of fill material shall be applied at the metallic penetrant/steel sleeve interface on both sides of wall assembly. A min 1/4 in. bead of fill material shall be applied at the steel sleeve/gypsum board interface on both surfaces of wall.

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

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



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