

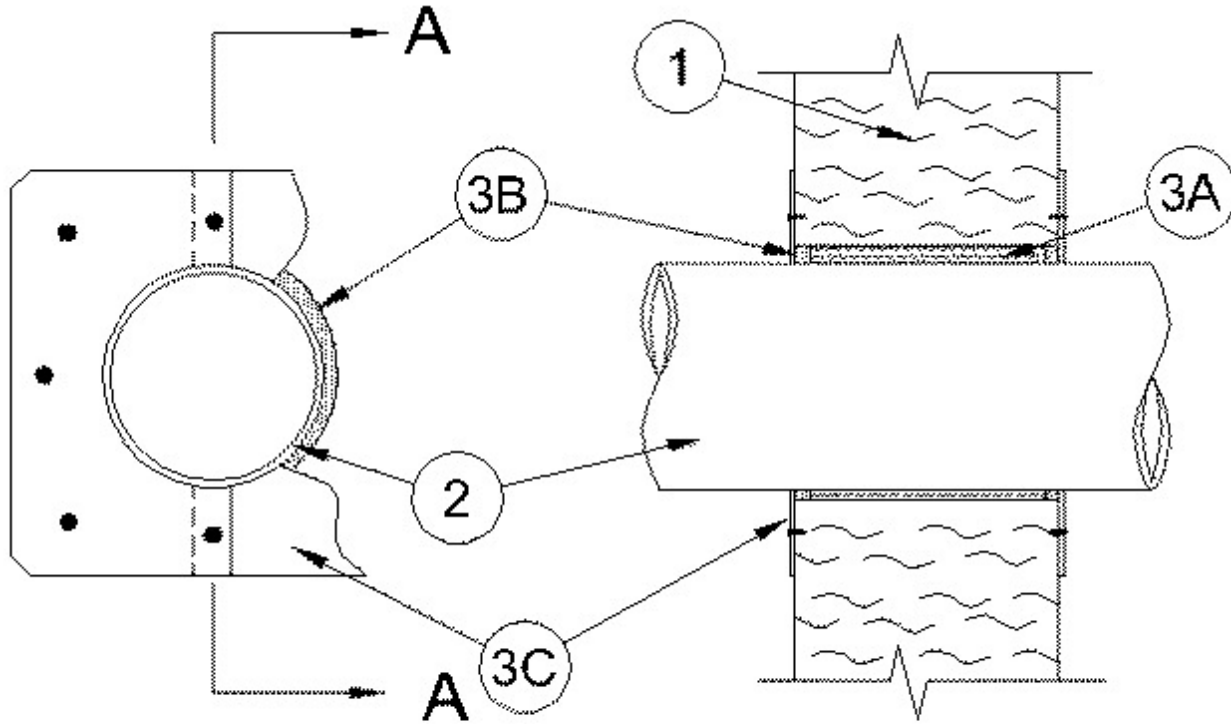


System No. W-N-1001

September 16, 2005

F Ratings — 1 and 2 Hr (See Item 1)

T Ratings — 0 and 1/4 Hr (See Item 1)



Section A-A

1. **Wall Assembly** — The 1 or 2 hr fire rated composite wall assembly shall be constructed of nom 4 in. (102 mm) or 7 in. (178 mm) thick, respectively, galvanized steel or painted galvanized steel faced **Partition Panel Units*** (CJMR) installed in the manner specified in Wall and Partition Design No. U050 in the Fire Resistance Directory. Max diam of opening is 20-1/4 in. (514 mm). Opening can be located on or off panel unit joints.

The F Rating of the firestop system is equal to the hourly rating of the wall assembly in which it is installed. The T Rating is 0 hr for 1 hr fire rated wall assemblies and 1/4 hr for 2 hr fire rated wall assemblies.

METL-SPAN L L C — ThermalSafe Partition Units

2. **Through-Penetrants** — One metallic pipe, conduit or tube to be installed eccentrically or concentrically within the opening. An annular space of min 1/4 in. (6 mm) to max 1/2 in. (13 mm) is required within the firestop system. Pipe, conduit or tube to be rigidly supported on both sides of the wall assembly. The following types and sizes of metallic pipes, conduit or tubing may be used:

A. **Steel Pipe** — Nom 18 in. (457 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.

B. **Iron Pipe** — Nom 18 in. (457 mm) diam (or smaller) cast or ductile iron pipe.

C. **Conduit** — Nom 6 in. (152 mm) diam (or smaller) steel electrical metallic tubing or nom 4 in. diam (or smaller) steel conduit.

D. **Copper Tubing** — Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing.

E. **Copper Pipe** — Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe.

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

A. **Packing Material** — Min 4 pcf (64 kg/m³) mineral wool batt insulation firmly packed into opening as a permanent form. Min 3-1/4 in. (83 mm) and min 6-1/4 in. (159 mm) thickness required for 1 hr and 2 hr fire rated walls, respectively. Packing material may be recessed from one or both surfaces of wall to accommodate the thickness of the optional fill material (Item 3B).

B. **Fill, Void or Cavity Material* — Sealant** — (Optional) - Nom 3/8 in. (10 mm) thickness of fill material applied within the annulus, flush with one or both wall surfaces.

See **Fill, Void or Cavity Material** (XHHW) category in the Fire Resistance Directory for the names of manufacturers. Any sealant or caulk material meeting the above specification and bearing the UL Classification Marking may be used.

C. **Cover Plate** — Cover plate available from the wall panel manufacturer or field provided. Cover plate fabricated from two pieces of min 0.019 in. (0.48 mm) thick galv or painted galv sheet steel, cut to the shape as shown in detail above. Inside diameter of cover plate to equal outside diameter of penetrant. Outside dimension of cover plate to be 4 in. (102 mm) greater than outer diam of penetrant, with a radius 2 in. (51 mm) greater than outer radius of metallic penetrant. Two halves of cover plate installed around through penetrant with nom 1 in. (25 mm) overlap at the mating ends. Cover plate to be installed on both sides of wall and secured to steel wall panel skins with min 1/8 in. (3 mm) diam stainless steel rivets or No. 12 by min 1/2 in. (13 mm) long hex washer head (HWH) steel screws. One fastener to be located at each overlap with intermediate fasteners located max 4 in. (102 mm) on center around periphery of opening. Fasteners located min 3/8 in. (10 mm) from cut opening in wall panel.

*Bearing the UL Classification Mark