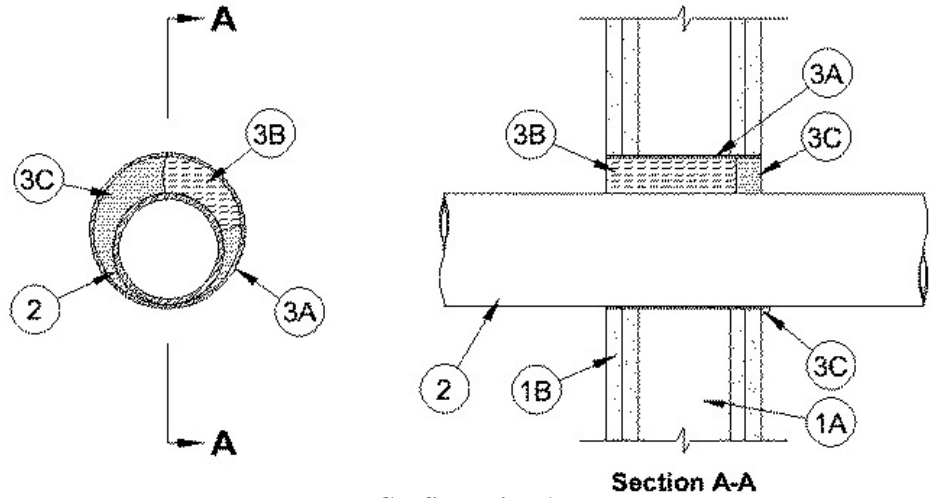


System No. W-L-1328

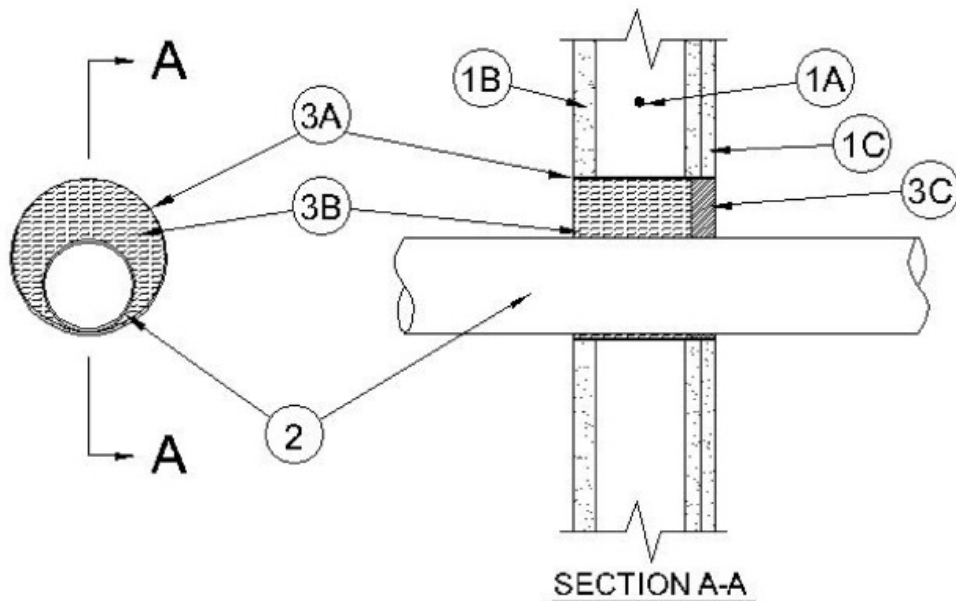
August 2008

F Ratings — 1 and 2 Hr (See Item 1)

T Rating — 0 Hr
(UL/cUL)



Configuration A



Configuration B

1. **Wall Assembly** — See Configuration A . 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, U400 or V400 Series Wall or Partition Design in the UL Fire Resistance Directory and shall include the following construction features:
 - A. **Studs** — Wall framing to consist of either wood or steel channel studs. Wood studs to be nom 2 by 4 in. (51 by 102 mm) lumber spaced max 16 in. (406 mm) OC. Steel studs to be min 3-5/8 in. (92 mm) wide spaced max 24 in. (610 mm) OC.

- B. **Gypsum Board*** — 5/8 in. (16 mm) thick, 4 ft (122 cm) 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 design in the UL Fire Resistance Directory. Circular cutout in wall to be min 1 in. (25 mm) larger than outside diam of through penetrant. Max diam of opening is 10 in. (254 mm).

The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.

- 1A. **Wall Assembly** — See Configuration B. The 1 or 2 hr fire-rated gypsum board/stud shaft wall assembly shall be constructed of the materials and in the manner specified in the individual U400 and V400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall incorporate the following construction features:
- A. **Steel Studs** — "C-H" shaped studs, min 2-1/2 in. (64 mm) wide by 1-1/2 in. (38 mm) deep, fabricated from min No. 25 gauge galv steel, spaced max 24 in. (610 mm) OC.
 - B. **Gypsum Board*** — 1 in. (25 mm) thick, 24 in. (610 mm) wide gypsum liner panels installed vertically. Max diam of opening is 10 in. (254 mm).
 - C. **Gypsum Board*** — One or two layers of nom 1/2 or 5/8 in. (13 or 16 mm) thick gypsum board as specified in the individual Wall and Partition Design. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 10 in. (254 mm).
 - D. **The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.**
2. **Through Penetrant** — One metallic pipe, conduit or tube to be installed either concentrically or eccentrically within the firestop system. Annular space to be min 0 in. (point contact) to max 2 in. (51 mm) for Configuration A or min 1/4 in. (6 mm) to max 2 in. (51 mm) for Configuration B. Pipe to be located near the center of the stud cavity width and to be rigidly supported on both sides of wall assembly. The following types and sizes of pipe, conduit and tubing may be used:
- A. **Steel Pipe** — Nom 8 in. (203 mm) diam (or smaller) Sch 10 (or heavier) steel pipe.
 - B. **Iron Pipe** — Nom 8 in. (203 mm) diam (or smaller) cast or ductile iron pipe.
 - C. **Conduit** — Nom 6 in. (152 mm) diam (or smaller) steel conduit or max 4 in. (102 mm) diam steel electrical metallic tubing.
 - D. **Copper Tube** — Nom 4 in. (102 mm) diam (or smaller) Type L (or heavier) copper tubing.
 - E. **Copper Pipe** — Nom 4 in. (102 mm) diam (or smaller) Regular (or heavier) copper pipe.
3. **Firestop System** — The firestop system shall consist of the following:
- A. **Steel Sleeve** — Cylindrical sleeve fabricated from min No. 30 gauge (0.016 in. (0.4 mm)) to max No. 16 gauge (0.056 in. (1.4 mm)) thick galv steel and having a min 2 in. (51 mm) lap along the longitudinal seam. Sleeve installed by coiling the sheet steel to a diam smaller than the through openings, inserting the coil through the openings, and releasing the coil to let it uncoil against the circular cutouts in the gypsum board layers. Ends of sleeve to be flush with or recessed max 1/8 in. (3 mm) from wall surfaces.
 - B. **Packing Material** — Min 4 pcf (64 kg/cu meter) density mineral wool batt insulation firmly-packed into steel sleeve as a permanent form. Packing material to be recessed from one side of wall as required to accommodate the required thickness of fill material. Packing material installed flush with one side of wall (Configuration A) or with the gypsum liner panels (Configuration B) and recessed 5/8 in. (16 mm) from the opposite side of wall to accommodate the required thickness of fill material.
 - C. **Fill, Void or Cavity Material* — Caulk** — Min 1 in. (25 mm) thickness of fill material applied within the annulus, flush with one surface of wall (Configuration A) or with finished surface of wall (Configuration B). Min 3/8 in. (10 mm) diam bead of caulk to be applied at point contact location. Edge of steel sleeve to be covered with caulk such that no gap is present between the steel sleeve and the cutout in the gypsum board.

TREMCO INC — TREMstop Intumescent Acrylic, FyreCaulk, or TREMstop IA+

*Bearing the UL Classification Mark



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Tremco Commercial Sealants & Waterproofing

3735 Green Road, Beachwood, OH 44122 // Phone: 216.292.5000 // 800.321.7906
220 Wicksteed Avenue, Toronto, ON M4H 1G7 // Phone: 416.421.3300 // 800.363.3213
1451 Jacobson Avenue, Ashland OH 44805 // Phone: 419.289.2050 // 800.321.6357