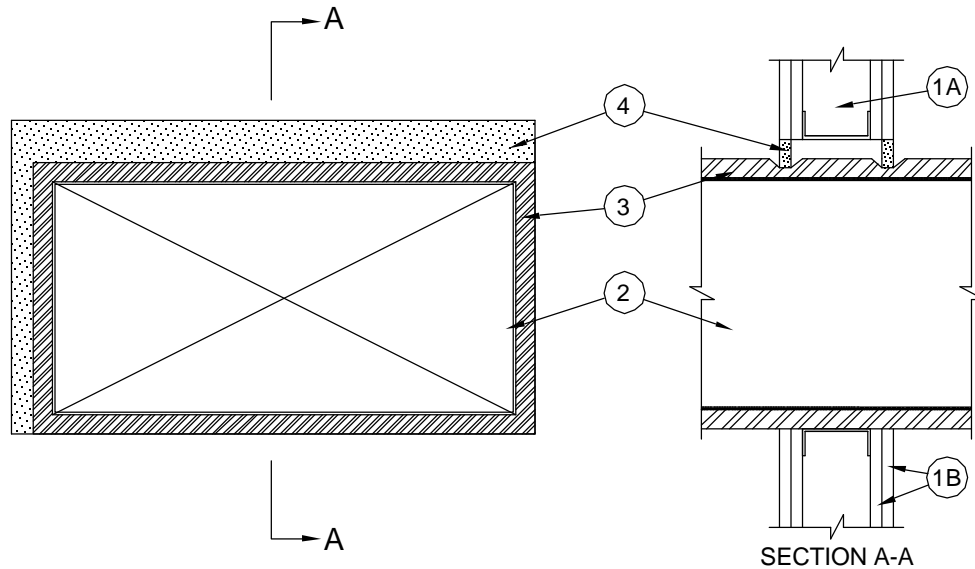


System No. W-L-7142

August 2008

F Ratings — 1 and 2 Hr (See Item 1)

T Ratings — 0 and 1 Hr (See Item 4C)
(UL/cUL)



1. **Wall Assembly** — The 1 or 2 hr fire-rated gypsum board/steel stud wall assembly shall be constructed of the materials and in the manner described in the individual U400 or V400 Series Wall or Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
 - A. **Studs** — Wall framing shall consist of min 3-1/2 in. (89 mm) wide steel channel studs spaced max 24 in. (610 mm) OC. Additional steel studs shall be used to completely frame the opening.
 - B. **Gypsum Board*** — 5/8 in. (16 mm) thick, 4 ft (1.22 m) wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U400 or V400 Series Designs in the UL Fire Resistance Directory. Max area of opening is 448 in² (2890 cm²) with max dimensions of 28 in. (711 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.
2. **Steel Duct** — Max 12 by 24 in. (305 by 610 mm) by No. 24 gauge (or heavier) steel duct to be installed within the wall opening. Steel duct to be rigidly supported on both sides of the wall assembly.
3. **Batts and Blankets*** — Nom 1-1/2 in. (38 mm) thick light density (min 0.75 pcf or 12 kg/m³) glass fiber blanket insulation jacketed on the outside with a foil-scrim-kraft facing. Longitudinal and transverse joints sealed with aluminum foil tape. The annular space within the firestop system prior to installation of the fill material shall be min 0 in. (point contact) to max 2 in. (51 mm). During the installation of the fill material within the annular space, the batt or blanket shall be compressed 50%.

See **Batts and Blankets** (BKNV) category in the Building Materials Directory for names of manufacturers. Any batt or blanket meeting the above specifications and bearing the UL Classification Marking with a Flame Spread value of 25 or less and a Smoke Developed value of 50 or less may be used.
4. **Firestop System** — The firestop system shall consist of the following:
 - A. **Packing Material** — (Optional. Not shown.) — Foam backer rod friction fit into annular space for 2 hr fire-rated wall assemblies only. Packing material to be recessed from both surfaces of wall to accommodate the required thickness of fill material.
 - B. **Fill, Void or Cavity Material* - Sealant** — Min 5/8 in. (16 mm) thickness of fill material applied within the annulus, flush with both surfaces of the wall. During the installation of the fill material within the annular space, the batt or blanket duct insulation (Item 3) shall be compressed 50%. A min 1/4 in. (6 mm) bead of fill material shall be applied at point contact locations of the insulated duct/wall interface on both sides of the wall.

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

- C. **Steel Retaining Channels** – (Not Shown) Required on sides of insulated duct where the annular space between the insulated duct and the framed opening is greater than 1 in. (25 mm). Min 3-5/8 in. (92 mm) by 1-1/4 in. (32 mm) by No. 30 gauge galv steel channels. During the installation of the channels, the batt or blanket duct insulation (Item 3) shall be compressed 50%. Channels to be placed over the compressed duct insulation with the fasteners piercing through the duct insulation and into the steel duct. Channels attached to the steel duct with min No. 10 by 1 in. (25 mm) long steel sheet metal screws in conjunction with min 1/2 in. (13 mm) diam steel washers spaced a max of 1 in. (25 mm) from each end of steel duct and spaced a max 6 in. (152 mm) OC. Channels to installed on both faces of wall and lap min 1-5/8 in. (41 mm) onto wall.

The hourly T Rating of the firestop system is 1 hr except that when the steel retaining channel is used, the T Rating is 0 hr.

*Bearing the UL Classification Mark



Reprinted from the Online Certifications Directory with permission from Underwriters Laboratories Inc.
Copyright © 2008 Underwriters Laboratories Inc. ®