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to CAN/ULC-S115

System No. W-L-7007

F Ratings — 1 and 2 Hr (See Item 1)

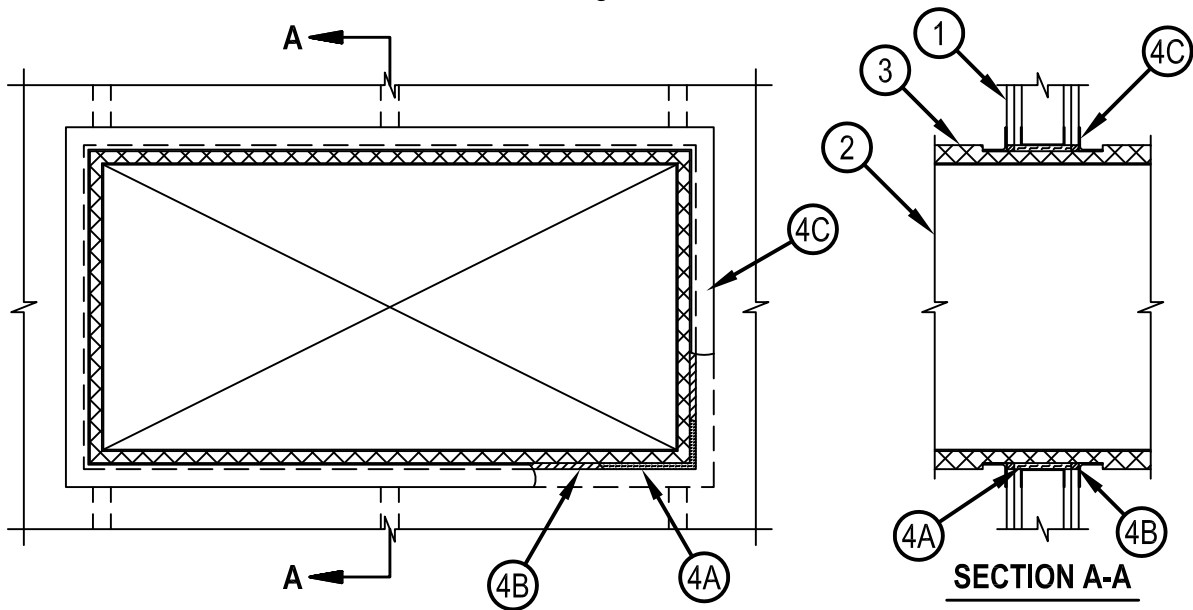
T Rating — 1/4 Hr

FH Rating — 0 Hr

FTH Rating — 0 Hr

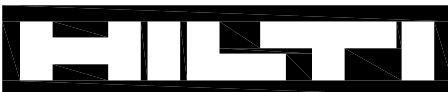


WL 7007



1. Wall Assembly — The fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400 or V400 Series Wall and Partition Designs in the 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 51 by 102 mm lumber spaced 406 mm OC. Steel studs to be min 89 mm wide and spaced max 610 mm. Additional framing members shall be used to completely frame around opening.
 - B. Gypsum Board* — Nom 16 mm thick with square or tapered edges. The gypsum wallboard type, number of layers and sheet orientation shall be as specified in the individual Wall and Partition Design Number. Max area of opening is 8884 cm². with the max length or width dimension of 1295 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 — Nom 610 mm by 1219 mm (or smaller) by 0.5 mm thick (or heavier) galv steel duct to be installed within the firestop system. Duct to be rigidly supported on both sides of the wall assembly.
3. Batts and Blankets* — Max 38 mm thick min 12 kg/m³ glass fiber batt or blanket jacketed on the outside with a foil-scrim-kraft facing. Longitudinal and transverse joints sealed with aluminum foil tape. During the installation of the fill material, the batt or blanket shall be compressed 50% such that the annular space within the firestop system shall be min 6 mm to a max 32 mm.
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 Index of 25 or less and a Smoke Developed Index 50 or less may be used.
4. Firestop System — The firestop system shall consist of the following:
 - A. Packing Material — Min 89 mm thickness of min 64 kg/m³ mineral wool batt insulation firmly packed into the opening as a permanent form. Packing material to be recessed from both sides of the wall to accommodate the required thickness of fill material.
 - B. Fill, Void or Cavity Material*—Sealant — Min 16 mm thickness of fill material applied within annulus flush with both surfaces of the wall.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant or FS-ONE MAX Intumescent Sealant
 - C. Steel Retaining Angle - (Optional) — 1.2 mm thick galv steel angles cut to fit contour of duct with a 51 mm overlap on the duct and a min 25 mm overlap on the gypsum board assembly on both surfaces of wall. 51 mm leg of angle secured to duct with min No. 8 by 19 mm long sheet metal screws, spaced a max of 152 mm OC. When bead of fill material is used at joint contact locations, angles shall be installed prior to full material curing.

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



Hilti Firestop Systems

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