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System No. W-L-4087

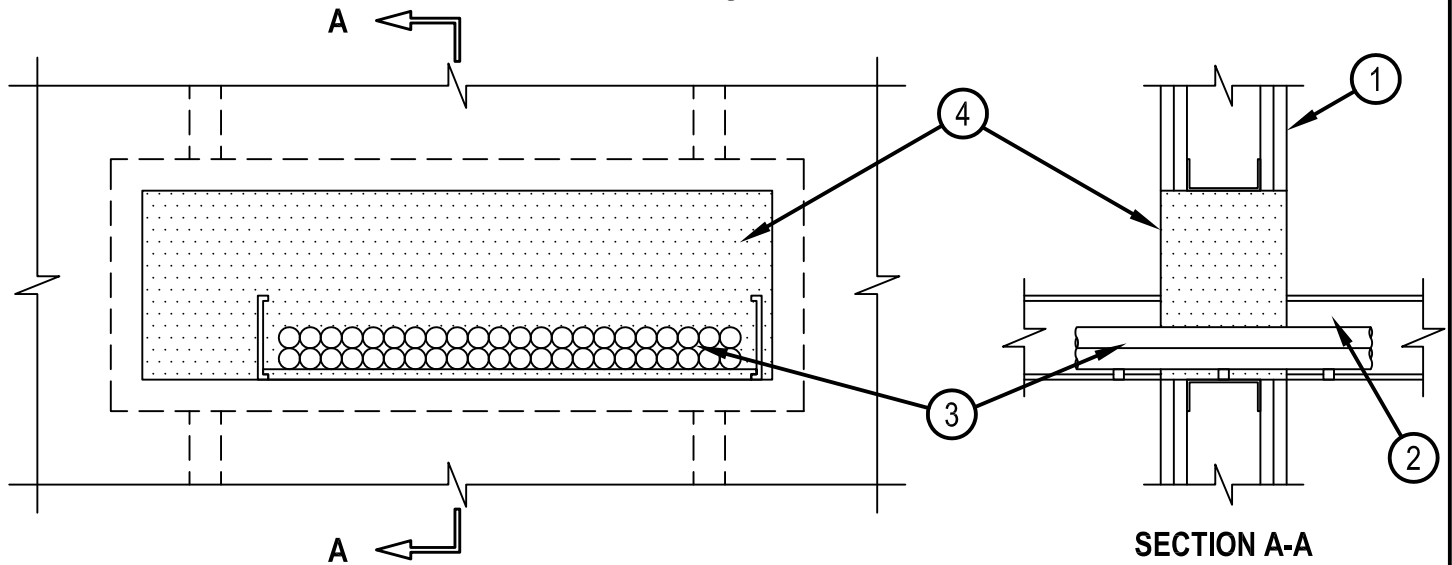
F Ratings — 1 and 2 Hr (See Items 1 and 4)

FT Rating — 0 Hr

FH Rating - 0 Hr

FTH Rating - 0 Hr

WL 4087



1. 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 U400, V400 or W400 Series Wall and Partition Design in the UL Fire Resistance Directory and shall include the following construction features:
 - A. Studs — Steel studs, min 89 mm (3-1/2 in.) deep, fabricated from 25 MSG galv steel, spaced max 610 mm (24 in.) OC. Additional steel studs shall be used to completely frame the opening.
 - B. Gypsum Board* — The gypsum board type, number of layers, fastener type and sheet orientation shall be as specified in the individual Wall and Partition Design. Max area of opening is 1742 cm² (270 in²) with max dimension of 762 mm (30 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.
 2. Cable Tray* — Max 610 mm (24 in.) wide by 102 mm (4 in.) deep open-ladder cable tray with channel-shaped side rails formed of 2.54 mm (0.10 in.) thick aluminum and 38 mm (1-1/2 in.) wide by 25 mm (1 in.) channel shaped rungs spaced on 229 mm (9 in.) OC. The annular space between cable tray and periphery of opening shall be min 0 mm (point contact) to max 127 mm (5 in.). Cable tray to be rigidly supported on both sides of wall assembly.
 3. Cables — Aggregate cross-sectional area of cable tray to be max 45 percent of the cross-sectional area of the cable tray based on a max 76 mm (3 in.) cable loading depth. Any combination of the following types and sizes of copper conductor cables may be used:
 - A. Max 300 pair No. 24 AWG telephone cable with polyvinyl chloride (PVC) insulation and jacket.
 - B. Max 500 kcmil single conductor power cable with PVC jacket material.
 - C. Multiple fiber optical communication cable jacketed with PVC and having a max OD of 9.5 mm (3/8 in.).
 - D. Max 3/C No. 12 AWG copper conductor steel clad cable with PVC insulation material.
 4. Firestop System — The firestop system shall consist of the following:
 - A. Fill, Void or Cavity Material* — Foam — Fill material applied within annulus, flush with both surfaces of the wall. Min fill material thickness for 1 Hr F Rating is 121 mm (4-3/4 in.) Min fill material thickness for 2 Hr F Rating is 152 mm (6 in.).
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP 660 Firestop Foam
 - B. Fill, Void or Cavity Material* — Fire Blocks — (Optional — Not Shown) — Nom 51 mm (2 in.) deep Fire Blocks applied in a single layer above cables within cable tray with 127 mm (5 in.) dimension projecting through opening in wall and long dimension parallel to wall. Either one or a combination of the block types specified below may be used.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS 657 Fire Block or CFS-BL Firestop Block
- * 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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