

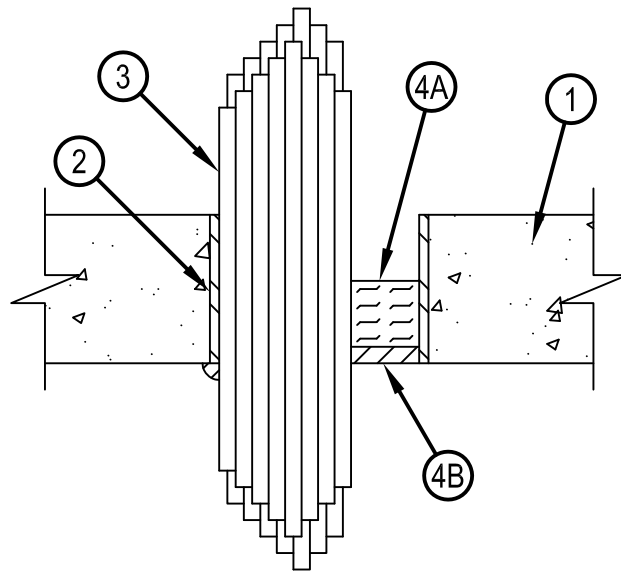
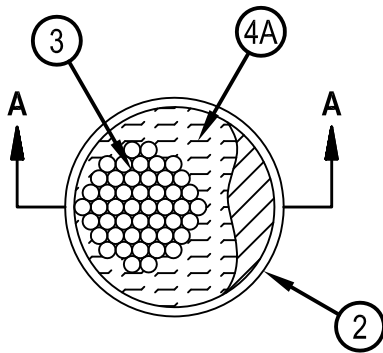


Classified by  
Underwriters Laboratories, Inc.  
to UL 1479 and CAN/ULC-S115

## System No. C-AJ-3239

CAJ 3239

| ANSI/UL1479 (ASTM E814)                       | CAN/ULC S115                                    |
|---|---|
| F Rating — 3 Hr                               | F Rating — 3 Hr                                 |
| T Ratings — 0, 1/2, 3/4 and 1 Hr (See Item 3) | FT Ratings — 0, 1/2, 3/4 and 1 Hr (See Item 3)  |
|   | FH Rating — 3 Hr                                |
|   | FTH Ratings — 0, 1/2, 3/4 and 1 Hr (See Item 3) |



**SECTION A-A**

- Floor or Wall Assembly — Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m<sup>3</sup>) concrete. Wall may also be constructed of any UL Classified Concrete Blocks\*. Max diam of opening is 6 in. (152 mm).  
See Concrete Blocks (CAZT) category in Fire Resistance Directory for names of manufacturers.
- Metallic Sleeve — (Optional) — Nom 6 in. (152 mm) diam (or smaller) Schedule 10 (or heavier) steel sleeve cast or grouted into floor or wall assembly, flush with both surfaces of floor or wall surfaces.
- Cables — Aggregate cross-sectional area of cables in opening to be max 33 percent of the aggregate cross-sectional area of the opening. The annular space between the cable bundle and the periphery of the opening shall be min 0 in. (point contact) to max 2-1/2 in. (64 mm). Cables to be rigidly supported on both sides of floor or wall assembly. Any combination of the following types and sizes of cables may be used:
  - Max 7/C No. 12 AWG with polyvinyl chloride (PVC) jacket. When the 7/C - No. 12 AWG cable is used, the T, FT and FTH Rating is 3/4 hr.
  - Max 300 pair No. 24 AWG telephone cable with PVC jacket. When the 300 pair cable is used, the T, FT and FTH Rating is 1/2 hr.
  - Type RG/6 coaxial cable with fluorinated ethylene jacket. When the RG/6 coaxial cable is used, the T, FT and FTH Rating is 1 hr.
  - Max 3/C No. 12 AWG (or smaller) metal-clad cable. When the 3/C No. 12 AWG cable is used, the T, FT and FTH Rating is 1/2 hr.
  - Max 3/C (with ground) 2/0 AWG (or smaller) aluminum conductor SER cable. When the 3/C - 2/0 AWG cable is used, the T, FT and FTH Rating is 1/2 hr.
  - Max 1/2 in. (13 mm) diam fiber-optic cable with PVC jacket. When the fiber optic cable is used, the T, FT and FTH Rating is 1 hr.
  - Max 1/C - 750 kcmil power cable with PVC jacket. When the 1/C - No. 750 kcmil cable is used, the T, FT and FTH Rating is 0 hr.
  - Max 1 in. (25 mm) diam metal clad TEK cable with PVC jacket. When the TEK cable is used, the T, FT and FTH Rating is 0 hr.
  - Fire Resistive Cables\* - Max 1-1/4 in. (32 mm) diam single conductor or multi conductor Type MI cable. A min 1/8 in. (3 mm) separation shall be maintained between MI cables and any other types of cable. When the Type MI cable is used, the T, FT and FTH Rating is 0 hr.



**Hilti Firestop Systems**

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#### 4. Firestop System — The firestop system shall consist of the following:

A. Packing Material — Min 2 in. (51 mm) thickness of min 4 pcf (64 kg/m<sup>3</sup>) mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from bottom surface of floor or from both surfaces of wall to accommodate the required thickness of fill material.

B. Fill, Void or Cavity Materials\* - Sealant — Min 1/2 in. (13 mm) thickness of fill material within the annulus, flush with bottom surface of floor or with both surfaces of wall. Min 1/2 in. (13 mm) bead of fill material applied at the concrete/cable bundle interface on bottom surface of floor or both surfaces of wall.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant or FS-ONE MAX Intumescent Sealant.

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



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