

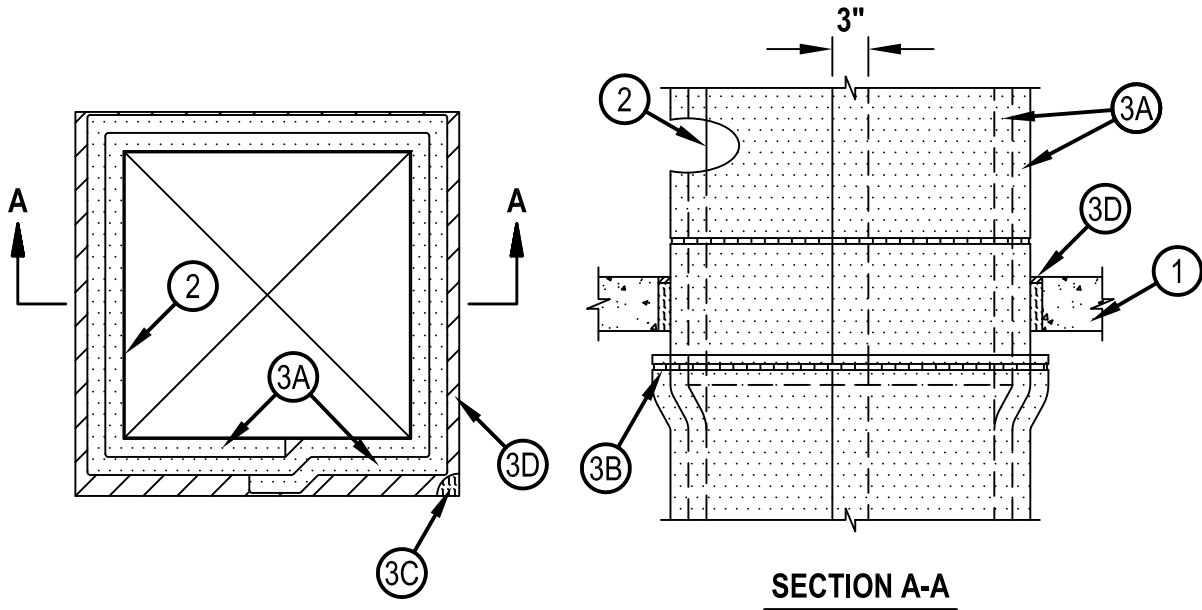


Classified by
Underwriters Laboratories, Inc.
to UL 1479 and CAN/ULC-S115

System No. C-AJ-7123

CAJ 7123

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings — 2 Hr	F Ratings — 2 Hr
T Ratings — 2 Hr	FT Ratings — 2 Hr
	FH Ratings — 2 Hr
	FTH Ratings — 2 Hr



1. Floor or Wall Assembly — Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete floor or min 5 in. thick reinforced lightweight or normal weight concrete wall. Wall may also be constructed of any UL Classified Concrete Blocks* Max area of opening is 1024 sq in. (6606 cm²) with max dimensions of 32 in. (813 mm).
See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.
2. Through Penetrant — One nom 24 by 24 in. (610 by 610 mm) (or smaller) No. 16 gauge (or heavier) steel air or grease duct to be installed within the firestop system. Duct to be rigidly supported on both sides of floor or wall assembly.



Hilti Firestop Systems

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January 14, 2015

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

A. Duct Wrap Materials* — Duct Wrap Nom 1-1/2 in. (38 mm) thick blanket which may be unfaced, faced on one side, or encapsulated with a poly/aluminum foil scrim supplied in max 48 in. (1219 mm) wide rolls. Prior to installing the duct wrap, all cut edges of the encapsulated duct wrap shall be sealed with min 3 in. (76 mm) wide pressure-sensitive aluminum foil tape. The steel air or grease duct shall be wrapped with two layers of duct wrap. Each layer of duct wrap shall be installed in accordance with the manufacturer's installation instructions. Inner layer of duct wrap shall be installed by cutting to size and tightly wrapping around the duct with butted transverse and longitudinal joints. Both transverse and longitudinal joints of outer layer shall be staggered from transverse and longitudinal joints of inner layer. Second layer of duct wrap shall be installed by cutting to size and tightly wrapping around the first layer with a transverse overlap of min 3 in. (76 mm) between adjacent pieces. Transverse joints of the second layer of duct wrap shall be staggered from the transverse joints of the first layer of duct wrap by a min 6 in. Longitudinal joints shall overlap a min of 3 in. (76 mm). In addition, the longitudinal joint of the second layer shall be offset min 6 in. from the longitudinal joints of the first layer. Each piece of duct wrap may be temporarily secured together with 1 in. (25 mm) wide filament tape spaced 12 in. (305 mm) OC. The annular space between the insulated duct and the periphery of opening shall be a nom 1 in. (25 mm).

UNIFRAX I L L C — FyreWrap Duct 1.5 Insulation

B. Steel Banding Straps — Nom 1/2 in. (13 mm) wide by 0.015 in. (0.38 mm) thick Type 302 stainless steel banding straps used in conjunction with 1/2 in. (13 mm) wide by 1 in. (25 mm) long Type 302 stainless steel crimp clips. Banding straps spaced a max 12 in. (305 mm) OC and 1-1/2 to 3 in. (38 to 76 mm) from transverse joint on outer layer of duct wrap.

C. Packing Material — Min. 4 in. (102 mm) thickness of unfaced duct wrap material firmly packed into the opening as a permanent form. As an alternate to the unfaced duct wrap material, packing material shall consist of min 4 in. (102 mm) thickness of soluble amorphous wool blanket 8 pcf (128 kg/m³) firmly packed into the opening as a permanent form. Packing material to be recessed from top surface of floor or from both surfaces of wall to accommodate the required thickness of fill material (Item 3D).

D. Fill, Void or Cavity Material* — Sealant — Min 1/2 in. (13 mm) thickness of sealant applied within annulus, flush with top surface of floor and with 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.

