

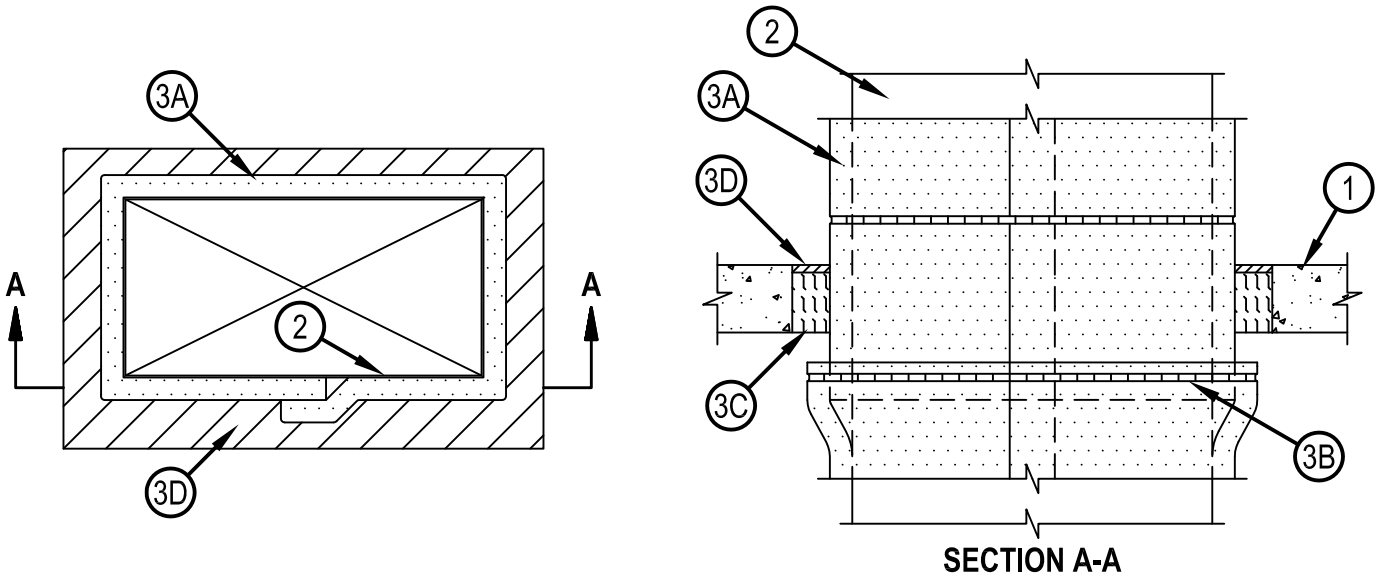


Classified by
Underwriters Laboratories, Inc.
to UL 1479 and CAN/ULC-S115

System No. C-AJ-7122

CAJ 7122

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings — 1 and 2 Hr (See Item 3A)	F Ratings — 1 and 2 Hr (See Item 3A)
T Ratings — 1 and 2 Hr (See Item 3A)	FT Ratings — 1 and 2 Hr (See Item 3A)
	FH Ratings — 1 and 2 Hr (See Item 3A)
	FTH Ratings — 1 and 2 Hr (See Item 3A)



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 640 sq in. (4129 mm) with max dimension 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 12 in. (610 by 305 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 4 in. (102 mm) wide pressure-sensitive aluminum foil tape. The steel air duct shall be wrapped with one layer of duct wrap for 1 hr F, FH and T, FT and FTH Ratings or with two layers of duct wrap for 2 hr F, FH and T, FT and FTH Ratings. The steel grease duct shall be wrapped with two layers of duct wrap for 2 hr F and T Ratings. First layer of duct wrap shall be installed by cutting to size and tightly wrapping around the air duct with a 3 in. (76 mm) overlap at transverse and longitudinal joints. Second layer of duct wrap shall be installed by cutting to size and tightly wrapping around the first layer with a min transverse overlap between adjacent pieces of 3 in. (76 mm). Transverse joints of the second layer of duct wrap shall be staggered from the transverse joints of the first layer of duct wrap. Longitudinal joints shall overlap a min of 3 in. In addition, the longitudinal joint of the second layer shall be offset 10-1/2 in. (267 mm) 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 air duct and the periphery of opening shall be a min of 3/4 in. (19 mm) to max 1-1/4 in. (32 mm).

UNIFRAX I L L C — FyreWrap Duct 1.5 Insulation

B. Steel Banding Straps — 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 51 mm) from transverse joint on outer layer of duct wrap.

C. Packing Material — Min 4 in. (102 mm) thickness of unfaced scrap duct wrap material or nom 3 pcf mineral wool batt insulation firmly packed into the opening as a permanent form. The annular space between insulated duct and the periphery of opening after packing shall be a min of 1-1/4 to a max of 1-3/4 in. (32 to 44 mm). 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.

