

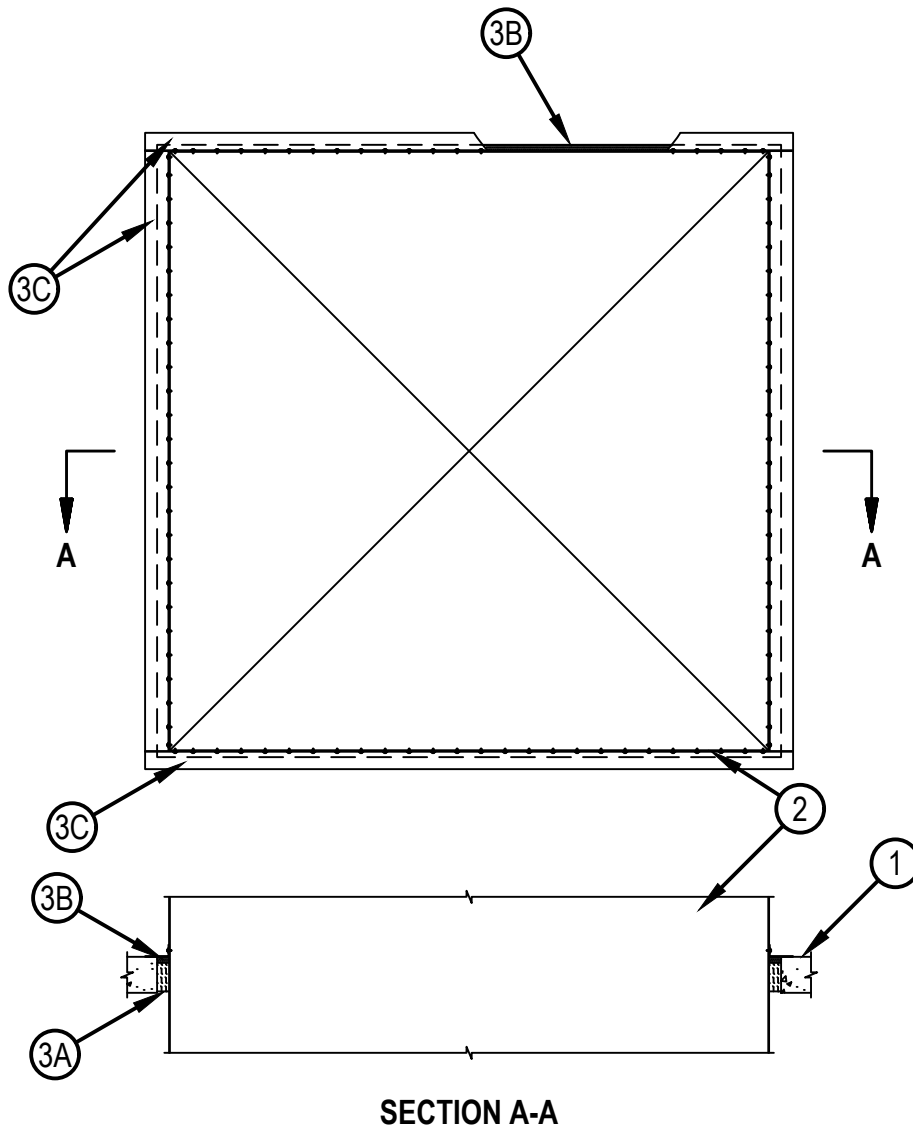


Classified by
Underwriters Laboratories, Inc.
to UL 1479 and CAN/ULC-S115

System No. C-AJ-7154

CAJ 7154

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Rating - 2 Hr	F Rating - 2 hr
T Rating - 0 Hr	FT Rating - 0 hr
	FH Rating - 2 hr
	FTH Rating - 0 hr



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October 27, 2017

System No. C-AJ-7154

CAJ 7154

1. Floor or Wall Assembly — Min 6 in. (152 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Max size of opening is 73.7 sq ft (6.8 m²) with a max width of 104 in. (264 cm).
See Concrete Blocks (CAZT) category in Fire Resistance Directory for names of manufacturers.
 2. Steel Duct — Max 100 in. by 100 in. (2.54 m by 2.54 m) by No. 18 gauge (or heavier) galv steel duct to be installed either concentrically or eccentrically within the firestop system. The duct shall be reinforced in accordance with SMACNA construction standards. The space between the steel duct and periphery of opening shall be min 0 in. (point contact) to max 2 in. (51 mm). Steel duct to be rigidly supported on both sides of the floor or wall assembly.
 - 2A. Through-Penetrants — Coated Ducts* — As an alternate to Item 2, rectangular steel air duct supplied coated with BW11 coating material. Max 40 by 40 in. (1.02 by 1.02 m) duct size. One duct to be installed within the firestop system with an annular space of min 0 in. (point contact) to max 2 in. (51 mm). Reinforcement stiffener or transverse joint with bolted flanges shall be located approximately at the mid depth of the annular space. Duct to be rigidly supported on both sides of the floor or wall assembly. Duct sections shall be assembled using bolted flanges or SMACNA approved Transverse Joint Reinforcements.
- FIRESPRAY INTERNATIONAL LTD — FLAMEBAR BW11 FIRE RATED DUCTWORK
3. Firestop System — The firestop system shall consist of the following:
 - A. Packing Material — Min 4-3/4 in. (121 mm) thickness of min 4 pcf (64 kg/m³) mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor or both surfaces of wall to accommodate the required thickness of fill material.
 - B. Fill, Void or Cavity Material* — Sealant — Min 1 in. (25 mm) thickness of fill material applied within annulus flush with top surface of floor, or min 5/8 in. (16 mm) thickness of fill material applied within annulus flush with both surfaces of wall. Min 1/2 in. (13 mm) diam bead of fill material shall be applied at the point contact locations between duct and opening at top surface of floor or both surfaces of wall.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CFS-S SIL GG, CFS-S SIL SL (in floors only), FS-ONE MAX Intumescent Firestop Sealant, or CP 606 Flexible Firestop Sealant
 - C. Steel Retaining Angles — Min No. 10 gauge (0.125 in. or 3 mm) thick galv steel angles sized to lap steel duct a min of 2 in. (51 mm) and lap floor or wall surfaces a min of 2 in. (51 mm). Angles attached to steel duct or coated duct on both sides of floor or wall with min No. 10 steel sheet metal screws spaced a max of 1 in. (25 mm) from each end of duct and spaced a max of 4 in. (102 mm) OC.

* 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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