



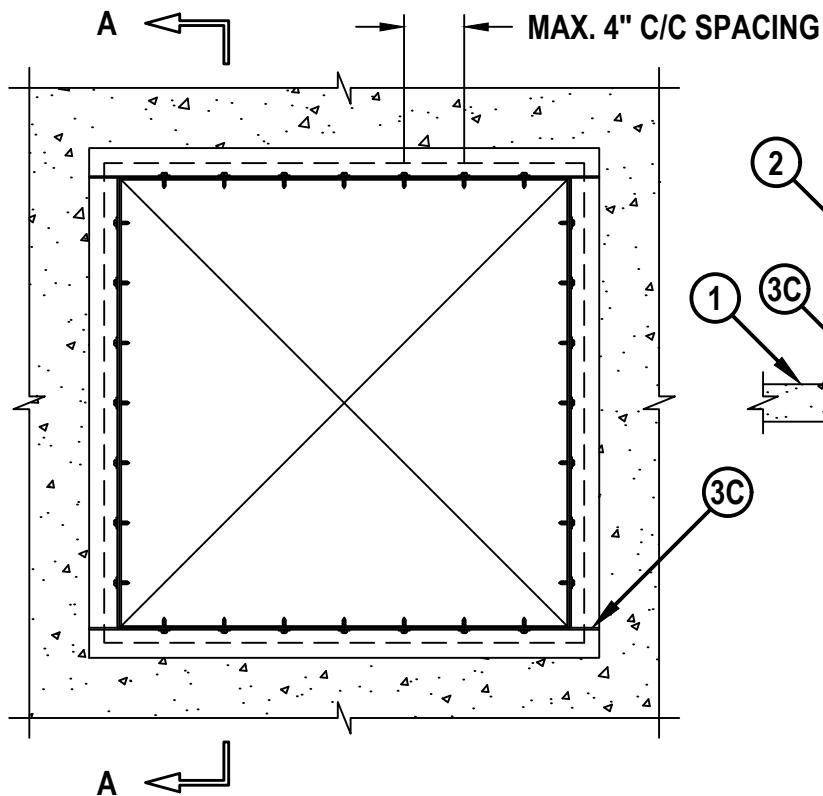
Classified by
Underwriters Laboratories, Inc.
to UL 1479 and CAN/ULC-S115

System No. C-AJ-7111

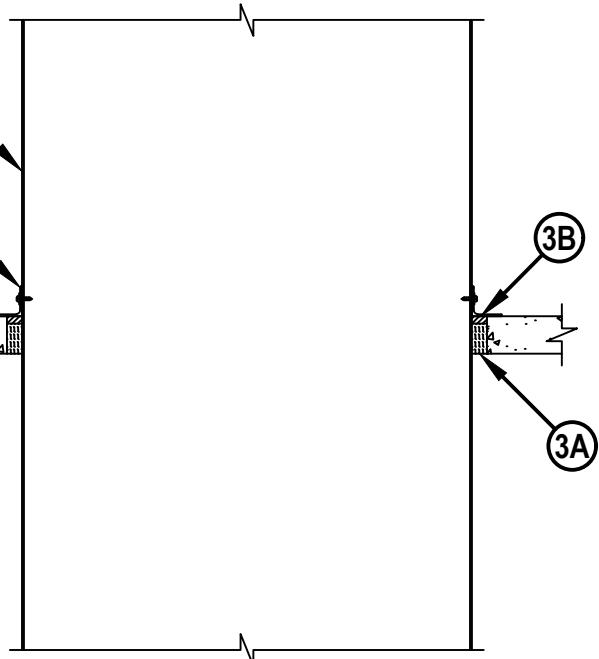
CAJ 7111

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

TOP VIEW



SECTION A-A



Hilti Firestop Systems

Reproduced by Hilti, Inc. Courtesy of
Underwriters Laboratories, Inc.
November 25, 2025

System No. C-AJ-7111

CAJ 7111

1. Floor or Wall Assembly — Min 2-1/2 in. (64 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete floor or min 3 in. (76 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete wall. Wall may also be constructed of any UL Classified Concrete Blocks*. Max area of opening is 7.1 sq ft (0.66 m²) with max dimension of 32 in. (813 mm).

See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.

2. Steel Duct — Max 30 by 30 in. (762 by 762 mm) No. 24 gauge (or heavier) steel duct. One duct to be installed either concentrically or eccentrically within the firestop system. The min and max annular space within the firestop system is dependent upon the size of the steel duct as shown in the table below. Steel duct to be rigidly supported on both sides of floor or wall assembly.

Size of the Steel Duct, in. (mm)	Min Annular Space, in (mm)	Max Annular Space, in. (mm)
30 by 30 (762 by 762)	1/4 (6.4)	1-3/4 (44)
28 by 28 (711 by 711)	1/8 (3.2)	3-7/8 (98)

3. 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/m³) mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor or from both surfaces of wall as required to accommodate the required thickness of fill material.

B. Fill, Void or Cavity Material* — Sealant — Min 1/2 in. (13 mm) thickness of fill material applied within the annulus, flush with top surface of floor or with both surfaces of wall.

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

C. Steel Angle — Min 2 in. (51 mm) wide by 2 in. (51 mm) high No. 16 gauge (or heavier) steel angle cut to fit the contour of the duct. Legs of angles secured to duct with No. 8 by 3/4 in. (19 mm) long steel sheet metal screws spaced max 4 in. (102 mm) OC. Steel angles installed on top surface of floor and both surfaces of the wall.

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