



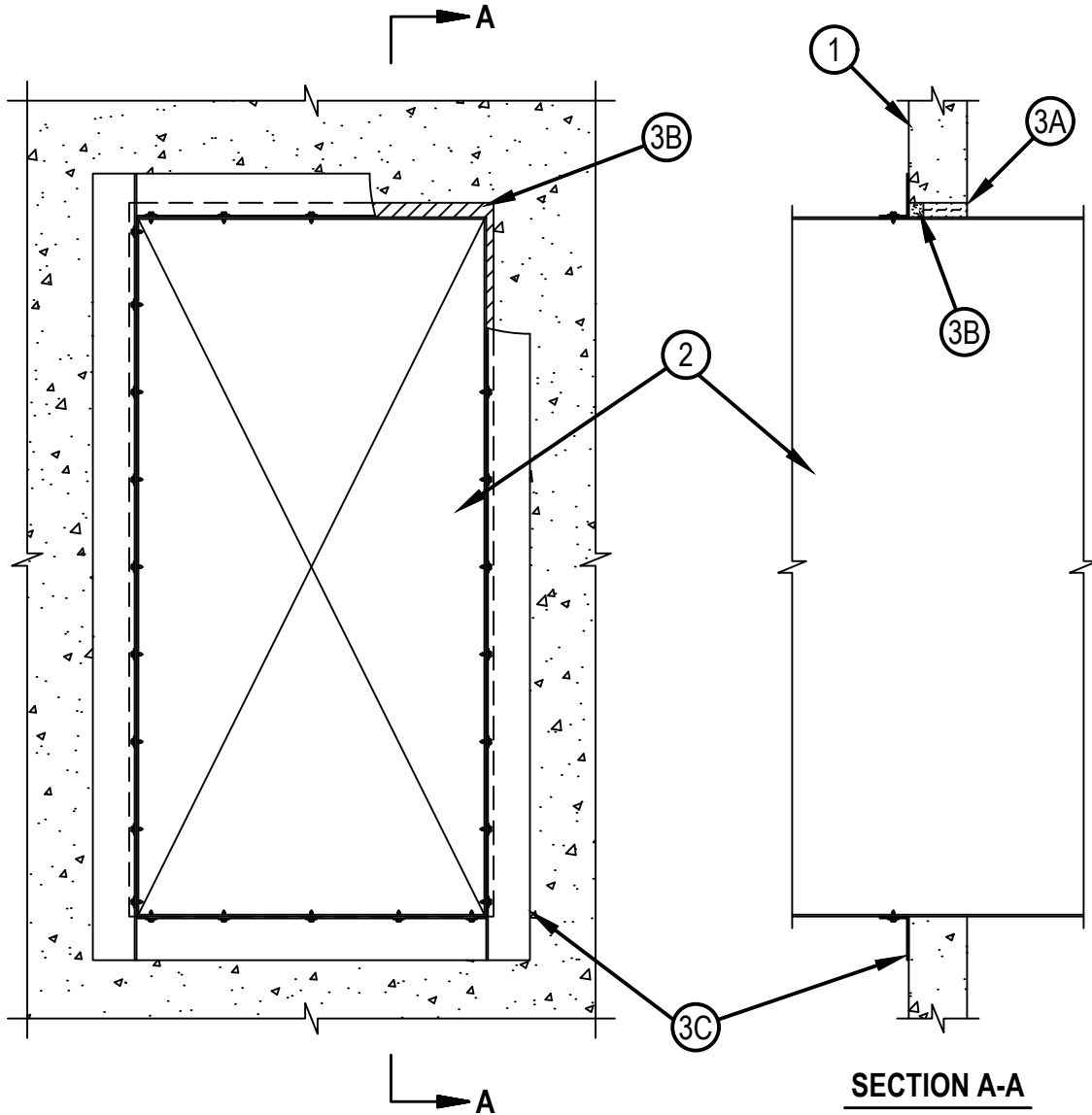
Underwriters Laboratories, Inc.  
to CAN/ULC-S115

# System No. W-J-7185

F Rating - 2 Hr  
FT Rating - 0 Hr  
FH Rating - 0 Hr  
FTH Rating - 0 Hr



WJ 7185



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# System No. W-J-7185



WJ 7185

1. Wall Assembly — Min 4 in. (102 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 area of opening is 1225 sq in. (412 cm<sup>2</sup>) with max dimension of 49 in. (203 mm).

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

2. Steel Duct — Nom 24 in. by 48 in. (610 by 1219 mm) (or smaller) No 28 gauge (or heavier) galv steel duct to be installed either concentrically or eccentrically within the firestop system. The annular space shall be min 0 in. (point contact) to max 1 in. (25 mm). Duct to be rigidly supported on both sides of the wall assembly.

2A. Through-Penetrants — Coated Ducts\* — As an alternate to Item 2, rectangular steel air duct supplied coated with BW11 coating material. Max 24 by 40 in. (610 by 1016 mm) duct size. One duct to be installed within the firestop system with an annular space of min 0 in. (point contact) to max 1 in. (25 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 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 2-3/4 in. (70 mm) thickness of min 4 pcf (64 kg/m<sup>3</sup>) mineral wool batt insulation firmly packed into opening on one side of the wall as a permanent form. Packing material to be recessed from one side 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 opening, flush with one side of wall. Min 1/2 in. (13 mm) bead of fill material shall be applied at the point contact locations at sealant side of wall, prior to installing the steel retaining angles (Item 3C).

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

C. Steel Retaining Angles — Nom 2 by 2 in. (51 by 51 mm) by 20 ga steel angles to be installed around four sides of duct with the angles installed flush against sealant side of the wall. The angles shall be attached to the steel duct on sealant side of wall with min No. 10 self-drilling, self-tapping steel screws spaced max 6 in. (152 mm) OC and max 1 in. from ends of duct.

\* 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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