



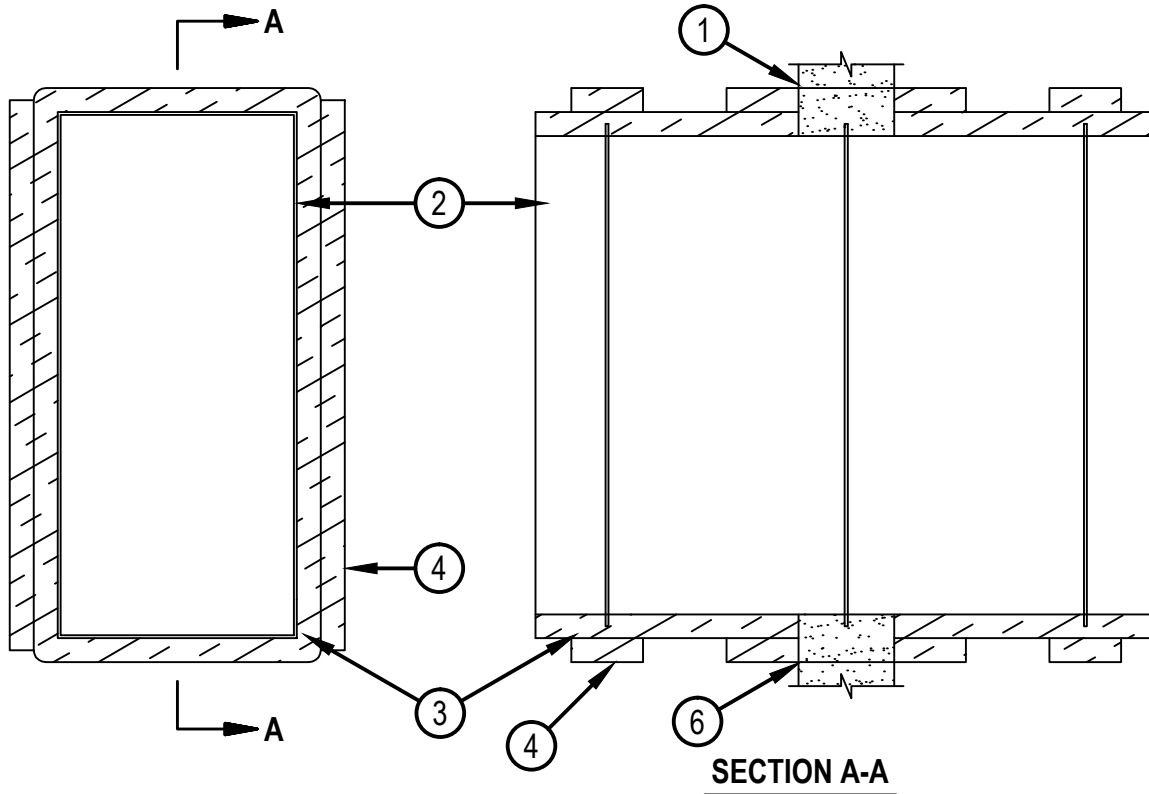
Classified by
Underwriters Laboratories, Inc.
to UL 1479 and CAN/ULC-S115

System No. C-AJ-7030

F Rating — 2 Hr

T Rating — 2 Hr

CAJ 7030



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. Wall may also be constructed of any UL Classified Concrete Blocks*. For rectangular ducts, max area of opening shall be 1936 in². with max dimension of 44 in. (1118 mm). For round ducts, max diam of opening shall be 44 in. (1118 mm). For oval shaped ducts, max dimension of opening shall be 44 in. (1118 mm) by 14 in. (356 mm).

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

2. Through-Penetrants — Coated Ducts* — Rectangular, round or flat oval coated steel air duct. For rectangular ducts, max perimeter dimension shall be 160 in. (4064 mm) and a max individual dimension shall be 40 in. (1016 mm). For round ducts, max diam shall be 40 in. (1016 mm) and for oval shaped ducts, max size of oval shall be 40 in. (1016 mm) by 10 in. (254 mm). Duct supplied coated with BW11 coating material. One duct to be centered within the firestop system with an annular space of 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



Hilti Firestop Systems

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3. Batts and Blankets* — Nom 2 in. (51 mm) thick unfaced mineral wool batts having a min density of 6 pcf (96 kg/m³). Single layer of mineral wool batt material installed on duct with all joints sealed with a 4 in. (102 mm) wide pressure sensitive aluminum foil tape at each transverse joint, insulation material shall be cut to provide an overlapping (strip lapped) joint of 1 in. (25 mm).
See Batts and Blankets (BZJZ) category in the Fire Resistance Directory or Batts and Blankets* (BKNV) category in the Building Materials Directory for names of manufacturers.
4. Insulation Collar — Fabricated from the same mineral wool insulation material described in Item 3. Strips are 8 in. (203 mm) wide and are centered over each joint between adjacent ventilation duct sections, over each ventilation duct stiffener, and adjacent to each Firestop System.
5. Steel Banding Straps — (Not Shown) — Min 3/4 in. (19 mm) wide by 0.015 in. (0.38 mm) thick stainless steel banding strips used in conjunction with min 3/4 in. (19 mm) wide by 1 in. (25 mm) long stainless steel crimp clips. Banding strips spaced a max of 12 in. (305 mm) OC. Two banding strips used to secure each insulation collar (Item 4).
6. Firestop System — The firestop system shall consist of the following:
 - A. Forms — (Not Shown) — Used as a form to prevent leakage of fill material during installation. Forms to be a rigid sheet material, cut to fit the contour of the penetrating item and fastened to the underside of the floor or both sides of wall. Forms to be removed after fill material has cured.
 - B. Fill, Void or Cavity Material* — Mortar — Fill material applied within the annulus, flush with top and bottom surfaces of floor or with both surfaces of wall. Mortar is mixed with water by volume in accordance with the mortar manufacturer's installation instructions.
A/D FIRE PROTECTION SYSTEMS INC — A/D Firebarrier Mortar
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP637 Mortar
ISOLATEK INTERNATIONAL — Cafco TPS Mortar
EGS NELSON FIRESTOP — CMP Mortar
RECTORSEAL — Bio K10+ Mortar
HOBEN INTERNATIONAL LTD — Firecrete Mortar
SPECIFIED TECHNOLOGIES INC — SpecSeal Mortar
TREMCO INC — TREMstop M mortar
W R GRACE & CO - CONN — KBS Mortar
3M COMPANY — 3M Fire Barrier Motar

*Bearing the UL Classification Mark



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Page: 2 of 2