



System No. C-AJ-7029 XHEZ7.C-AJ-7029 Through-penetration Firestop Systems Certified for Canada

[Page Bottom](#)

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

XHEZ7 - Through-penetration Firestop Systems Certified for Canada

[See General Information for Through-penetration Firestop Systems Certified for Canada](#)

System No. C-AJ-7029

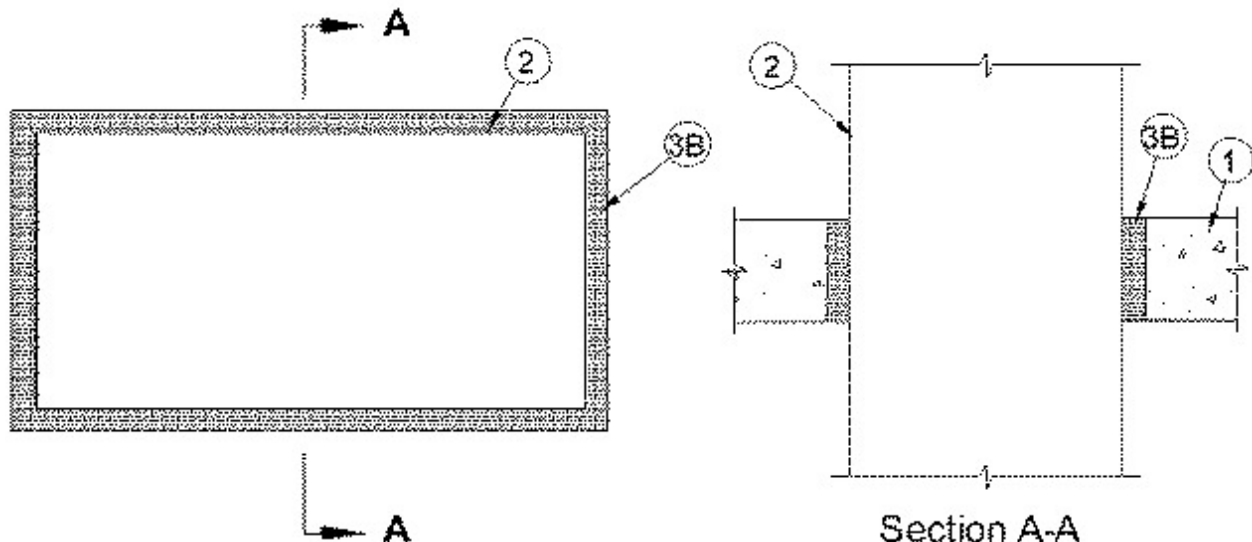
May 09, 2013

F Rating — 2 Hr

FT Rating — 0 Hr

FH Rating — 2 Hr

FTH Rating — 0 Hr



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 13.4 ft² (1.25 m²) with max dimension of 44 in. (1.11 m). For round ducts, max diam of opening shall be 44 in. (1.11 m). For oval shaped ducts, max dimension of opening shall be 44 in. (1.11 m) by 14 in.(0.37 m).

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 duct, max perimeter dimension shall be 13.3 ft.(4.06 m) with a max individual dimension of 40 in. (1.02 m). For round

ducts, max diam shall be 40 in. (1.02 m) and for oval shaped ducts, max size of oval shall be 40 in. (1.02 m) 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

3. 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 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 — Type CMP Mortar

RECTORSEAL — Bio K10+ Mortar

HOBEN INTERNATIONAL LTD — Firecrete Mortar

SPECIFIED TECHNOLOGIES INC — SpecSeal Mortar

TREMCO INC — TREMstop M mortar

GCP APPLIED TECHNOLOGIES INC — Type KBS Mortar

3M COMPANY — Fire Barrier Motar

C. Steel Angles — (Optional, Not Shown) - Nom 4 by 4 by 1/4 in. (102 by 102 by 6 mm) thick steel angles installed around perimeter of opening on top surface of floor or both surfaces of wall. Steel angles shall lap a min of 2 in. (51 mm) onto the concrete on all sides of the opening. Steel angles shall be attached to through penetrant (Item 2) by means of nom 3/8 in. (9.5 mm) diam by 1-1/4 in. (32 mm) long steel bolts in conjunction with nom 3/8 in. (9.5 mm) by 1-1/2 in. (38 mm) diam steel fender washers spaced max 6 in. (152 mm) OC. Steel angles attached to concrete floor on all sides of the opening by means of nom 5/16 in. (8 mm) diam by 1-3/4 in. (45 mm) long concrete screws in conjunction with 3/8 in. (10 mm) by 1-1/2 in. (38 mm) diam steel fender washers spaced max 6 in. (152 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.**

Last Updated on 2013-05-09

[Questions?](#)

[Print this page](#)

[Terms of Use](#)

[Page Top](#)

© 2016 UL LLC

The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under UL's Follow-Up Service. Only those products bearing the UL Mark should be considered to be Certified and covered under UL's Follow-Up Service. Always look for the Mark on the product.

UL permits the reproduction of the material contained in the Online Certification Directory subject to the following conditions: 1. The Guide Information, Assemblies, Constructions, Designs, Systems, and/or Certifications (files) must be presented in their entirety and in a non-

misleading manner, without any manipulation of the data (or drawings). 2. The statement "Reprinted from the Online Certifications Directory with permission from UL" must appear adjacent to the extracted material. In addition, the reprinted material must include a copyright notice in the following format: "© 2016 UL LLC".