System No. F-A-1151
XHEZ.F-A-1151
Through-penetration Firestop Systems

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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.

XHEZ - Through-penetration Firestop Systems

XHEZ7 - Through-penetration Firestop Systems Certified for Canada

See General Information for Through-penetration Firestop Systems

See General Information for Through-penetration Firestop Systems Certified for Canada

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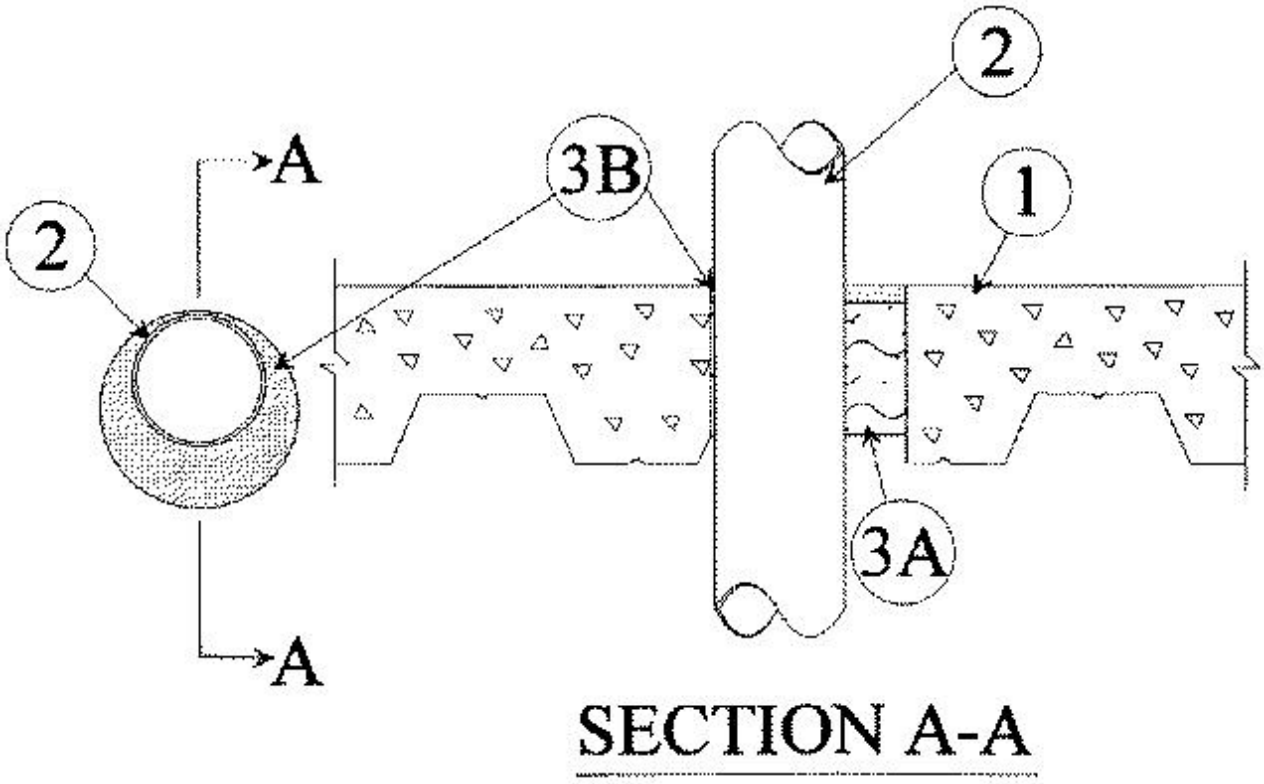
ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings - 2 and 3 Hr (See Item 3B)	F Ratings - 2 and 3 Hr (See Item 3B)
T Rating - 0 Hr	FT Rating - 0 Hr
	FH Ratings - 2 and 3 Hr (See Item 3B)
	FTH Rating - 0 Hr



SECTION A-A

1. **Floor Assembly —** The fire-rated unprotected concrete and steel floor assembly shall be constructed of the materials and in the manner specified in the individual D900 Series designs inthe UL Fire Resistance Directory and as summarized below:

A. **Normal Weight or Lightweight Concrete —** Min 3-1/2 in. (89 mm) thickness of normal weight concrete with carbonate or siliceous aggregate, 145 to 155 pcf (2320 to 2480 kg/cu meter) unit weight, min 3000 psi (2110 g/sq mm) compressive strength. Min 3-1/2 in. (89 mm) thickness of lightweight concrete with expanded shale, clay or slate aggregate, 105 to 115 pcf (1680 to 1840 kg/cu meter) unit weight, min 3000 psi (2110 g/sq mm) compressive strength.

B. **Welded Wire Fabric —** 6 x 6 — W1.4xW1.4.

C. **Steel Floor and Form Units* —** Composite or noncomposite 2 in. (51 mm) deep fluted galv units as specified in the individual Floor-Ceiling design. Max diam of opening cored-drilled through floor assembly is 10-1/2 in. (267 mm).

2. **Through Penetrants —** One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. Pipe, conduit or tubing to be rigidly supported on both sides of floor assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:

A. **Steel Pipe —** Nom 8 in. (203 mm) diam (or smaller) Schedule 40 (or heavier) steel pipe. The annular space shall be min 1/4 in. (6 mm) to max 1-5/8 in. (41 mm).

B. **Iron Pipe —** Nom 8 in. (203 mm) diam (or smaller) cast or ductile iron pipe. The annular space shall be min 1/4 in. (6 mm) to max 1-5/8 in. (41 mm)..

C. **Conduit —** Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing or steel conduit. The annular space shall be min 1/4 in. (6 mm) to max 1-5/8 in. (41 mm).

D. **Copper Tubing —** Nom 4 in. (102 mm) diam (or smaller) Type L (or heavier) copper tubing. The annular space shall be min 1/4 in. (6 mm) to max 1-5/8 in. (41 mm).

E. **Copper Pipe —** Nom 4 in. (102 mm) diam (or smaller) Regualr (or heavier) copper pipe. The annular space shall be min 1/4 in. (6 mm) to max 1-5/8 in. (41 mm).

3. **Firestop System —** The firestop system shall consist of the following:

A. **Packing Material —** Min 4 in. (102 mm) thickness of min 4.0 pcf (64 kg/cu meter) mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor as required to accommodate the required thickness of fill material.

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

A/D FIRE PROTECTION SYSTEMS INC — A/D FIREBARRIER Acrylic Sealant, A/D FIREBARRIER Intumescent Sealant, or A/D FIREBARRIER Intumescent Sealant II

*** 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 2016-06-01