System No. W-L-1523
XHEZ7.W-L-1523
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. W-L-1523

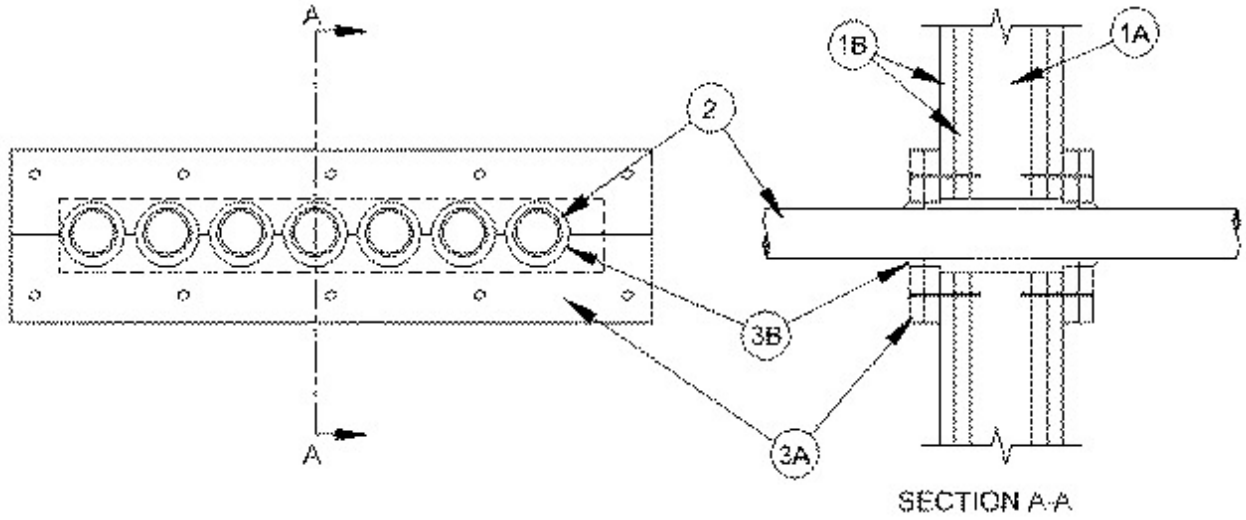
June 17, 2016

F Rating — 2 Hr

FT Rating — 1 Hr

FH Rating — 0 Hr

FTH Rating — 0 Hr



SECTION A-A

1. **Wall Assembly —** The 2 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner described in the individual U400 or V400 Series Wall or Partition Design in the UL Fire Resistance Directory and shall include the following construction features:

A. **Studs —** Wall framing shall consist of min 64 mm (2-1/2 in.) wide steel channel studs spaced max 610 mm (24 in.) OC.

B. **Gypsum Board* —** 16 mm (5/8 in.) thick, 122 cm (4 ft) wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U400 or V400 Series Design in the UL Fire Resistance Directory. Max area of opening is 426 sq cm (66 sq in.) with max dimension of 559 mm (22 in.).

2. **Through-Penetrants —** One or more pipes, conduits or tubing to be installed within the opening. The space between pipes, conduits or tubing shall be nom 25 mm (1 in.). The space between pipes, conduits or tubing and periphery of opening shall be min 10 mm (3/8 in.) to max 51 mm (2 in.). Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of pipes, conduits or tubing may be used:

A. **Steel Pipe —** Nom 51 mm (2 in.) diam (or smaller) Schedule 5 (or heavier) steel pipe.

B. **Iron Pipe —** Nom 51 mm (2 in.) diam (or smaller) cast or ductile iron pipe.

C. **Conduit —** Nom 51 mm (2 in.) diam (or smaller) steel electrical metallic tubing or galv steel conduit.

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

A. **Gypsum Board* —** Two layers of 16 mm (5/8 in.) thick gypsum board cut to fit the contour the through penetrants on both surfaces of the wall. The annular space between the through penetrants and the cutouts of the gypsum board shall be a min of 6 mm (1/4 in.) to a max 10 mm (3/8 in.). Gypsum board shall extend a min of 51 mm (2 in.) beyond the periphery of the opening on both surfaces of the wall. Prior to securing the gypsum board to both surfaces of the wall, a min 13 mm (1/2 in.) diam bead of fill material (Item 3B) applied as a gasket/sealant between each layer of gypsum board. On both surfaces of the wall, each layer of gypsum board to be secured to wall by means of min 25 mm (1 in.) (first layer) and min 32 mm (1-1/4 in.) (second layer) long Type G steel screws spaced nom 152 mm (6 in.) OC.

See **Gypsum Board** (CKNX) category in Vol. 1 of the UL Fire Resistance Directory for names of manufacturers.

B. **Fill, Void or Cavity Material* — Sealant —** On both surfaces of the wall, a min 13 mm (1/2 in.) diam bead of fill material applied as a gasket/sealant between each layer of gypsum board (Item 3A). After installation of both layers of gypsum board, min 16 mm (5/8 in.) thickness of fill material applied within annular space between the cutouts of the gypsum board and the penetrating items. Additional fill material to be installed such that a min 6 mm (1/4 in.) thick crown of fill material applied around the outer circumference of the through penetrants on both surfaces of wall.

A/D FIRE PROTECTION SYSTEMS INC — A/D FIREBARRIER Acrylic Sealant, A/D FIREBARRIER Intumescent Sealant, 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 2016-06-17