System No. F-E-3010
XHEZ7.F-E-3010
Through-penetration Firestop Systems Certified for Canada

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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.

XHEZ7 - Through-penetration Firestop Systems Certified for Canada

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

System No. F-E-3010

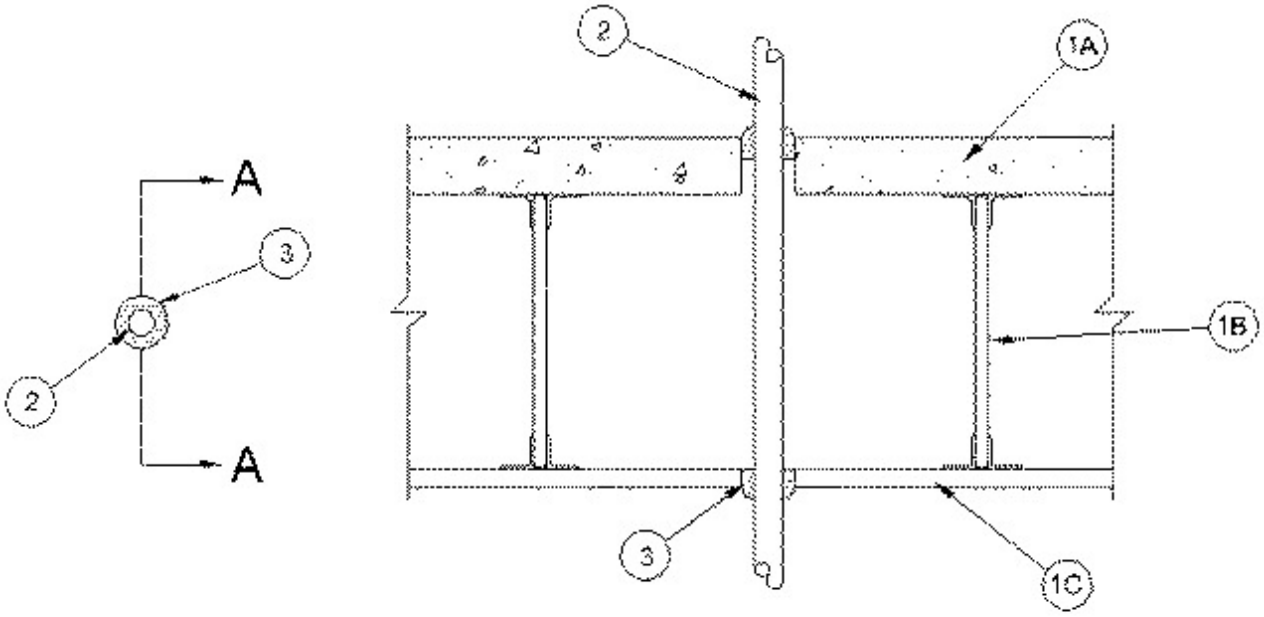
September 22, 2011

F Rating — 1 Hr

FT Rating — 1 Hr

FH Rating — 1 Hr

FTH Rating — 1 Hr



SECTION A-A

1. **Floor-Ceiling Assembly —** The 1 hr fire-rated concrete and steel joist Floor-Ceiling assembly shall be constructed of the materials and in the manner described in the individual G500 Series Design in the UL Fire Resistance Directory, as summarized below:

A. **Concrete Floor —** Normal weight or lightweight (100-150 pcf) concrete over metal lath or steel deck as specified in the individual G500 Series Design. Max diam of floor opening is 2 in.

B. **Joists —** Steel joists or **Structural Steel Members*** as specified in the individual G500 Series Design.

C. **Gypsum Board* —** Min 5/8 in. thick, screw-attached to furring channels as specified in the individual G500 Series Design. Max diam of ceiling is 2 in.

2. **Cables —** One cable to be centered within the firestop system. Diam of openings through floor and through gypsum board ceiling to be nom 1/4 in. larger than the outside diam of through penetrant. Cable to be rigidly supported on both sides of floor-ceiling assembly. The following types and sizes of cables may be used:

A. 1/C-500 kcmil (or smaller) copper conductor cable with cross-linked polyethylene insulation and jacket.

B. Max 100 pair No. 24 AWG copper conductor cable (or smaller) with polyvinyl chloride (PVC) insulation and jacket.

C. Type RG/U coaxial copper conductor cable with fluorinated ethylene propylene insulation and jacket.

D. Max 7/C — No. 12 AWG (or smaller) copper conductor cable with (PVC) insulation and jacket.

E. Max 3/C with ground — No. 8 AWG (or smaller) copper conductor Type NM nonmetallic sheathed cable.

F. Max 3/C — No. 4/0 AWG (or smaller) aluminum conductor service entrance cable with PVC insulation and jacket.

G. Max 4 pair No. 24 AWG (or smaller) copper conductor data cable with Hylar jacket and insulation.

2A. **Cables (Not Shown) —** As an alternate to Item 2, a max of seven cables bundled together and centered within the firestop system. Diam of openings through floor and through gypsum board ceiling to be nom 1/4 in. larger than the outside diam of cable bundle. Cables to be rigidly supported on both sides of floor-ceiling assembly. The following types and sizes of copper conductor cables may be used:

A. Max 4 pair No. 24 AWG cable (or smaller) with polyvinyl chloride (PVC) insulation and jacket.

B. Type RG/U coaxial cable with fluorinated ethylene propylene insulation and jacket.

3. **Fill, Void or Cavity Material* — Caulk —** On top of assembly, a min 1-1/8 in. depth of fill material applied within annulus on top surface of floor. On bottom of assembly, a min 1/2 in. depth of fill material applied within annulus on bottom surface of ceiling. Fill material to be forced into interstices of cable bundle to max extent possible on both sides of floor-ceiling assembly. Additional fill material to be installed such that a min 1/2 in. thick crown is formed around the through penetrant on both sides of floor-ceiling assembly.

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*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

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