System No. F-E-1015
XHEZ.F-E-1015
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

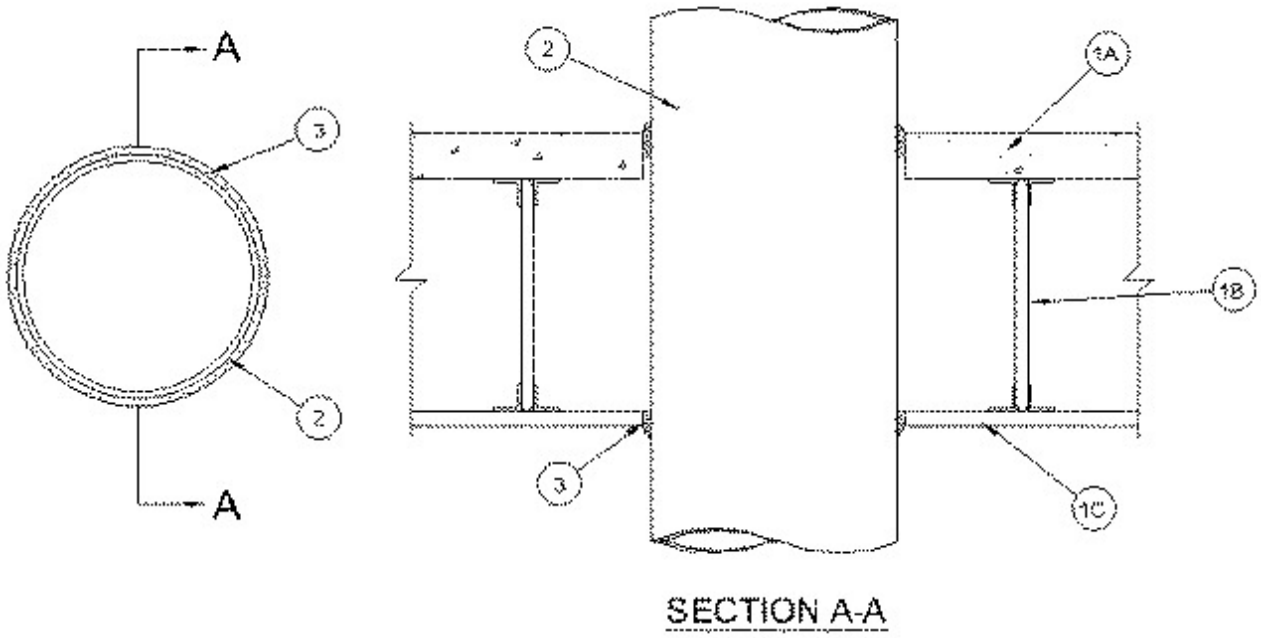
See General Information for Through-penetration Firestop Systems

System No. F-E-1015

October 31, 2003

F Rating — 1 Hr

T 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. **Flooring —** Normal or Lightweight concrete as specified in the individual G500 Series Design. Max diam of opening is 7 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 opening is 7 in.

2. **Through Penetrant —** One metallic pipe, conduit or tubing to be installed centered within the opening, approx midway between joists. The annular space between penetrant and periphery of opening shall be a nom 1/4 in. Penetrants 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 6 in. diam (or smaller) Schedule 10 (or heavier) steel pipe.

B. **Iron Pipe —** Nom 6 in. diam (or smaller) cast or ductile iron pipe.

C. **Conduit —** Nom 6 in. diam (or smaller) steel conduit, or nom 4 in. (or smaller) electrical metallic tubing.

D. **Copper Tubing —** Nom 4 in. diam (or smaller) Type L (or heavier) copper tube.

E. **Copper Pipe —** Nom 4 in. diam (or smaller) Regular (or heavier) copper pipe.

3. **Fill, Void or Cavity Materials* — Caulk —** Min 1-1/8 in. thickness of fill material applied within the annulus, flush with top surface of floor. Min 5/8 in. thickness of fill material applied within the annulus, flush with bottom surface of ceiling. Additional fill material shall be installed such that a min 1/2 in. thick crown of fill material applied around the through penetrant on both the top and bottom surfaces of the assembly.

A/D FIRE PROTECTION SYSTEMS INC — A/D FIREBARRIER Silicone

*** 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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