



System No. W-J-2278 XHEZ.W-J-2278 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

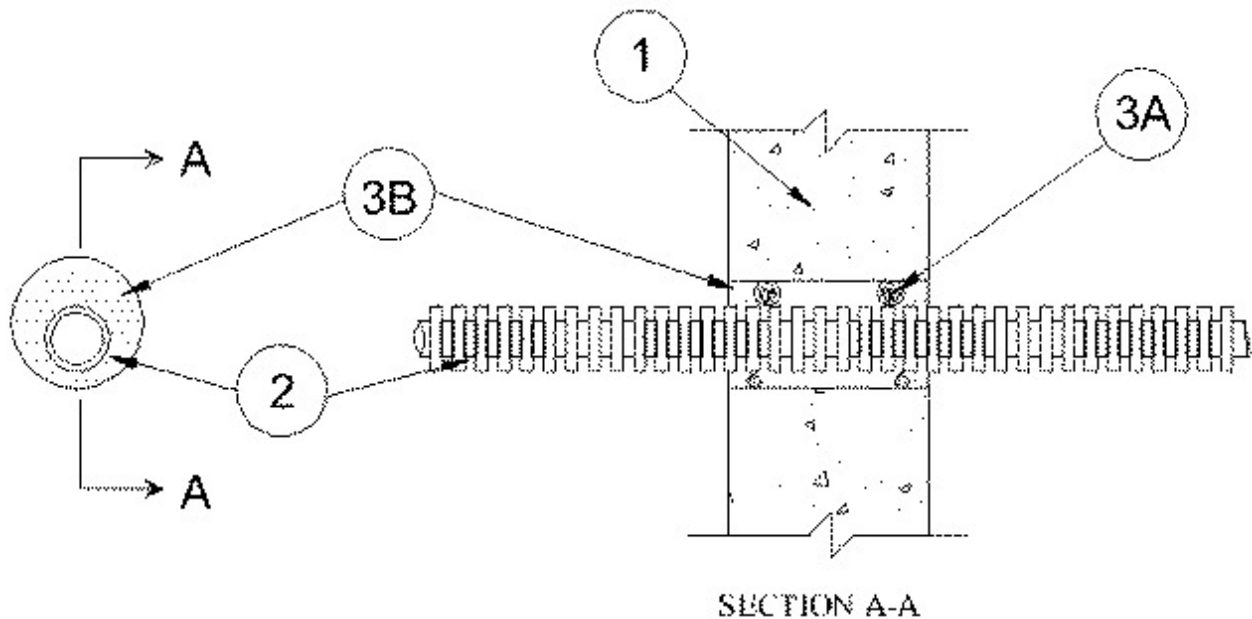
[See General Information for Through-penetration Firestop Systems](#)

System No. W-J-2278

May 31, 2016

F Rating — 1& 2 Hr (See Item 1)

T Rating — 3/4, 1, 1-1/2 & 1-3/4 Hr (See Item 2)



1. Wall Assembly — Min 5 in. (127 mm) or 6 in. (152 mm) thick reinforced lightweight or normal weight (100-150 pcf (1601-2402 kg/m³) concrete for 1 hr or 2 hr F Rating respectively. Wall may also be constructed of any UL Classified **Concrete Blocks***. Max diam of opening is 1-11/16 in.

See **Concrete Blocks** (CAZT) category in the Fire Resistance Directory for names of manufacturers.

2. Through Penetrants — One nonmetallic tube to be installed either concentrically or eccentrically within the firestop system. The annular space shall be min 1/4 in. (6 mm) to max 3/8 in. (10 mm) Tube to be rigidly supported on both sides of wall assembly. The following types and sizes of nonmetallic tubes may be used:

A. **Crosslinked Polyethylene (PEX) Tube** — Nom 3/4 in. (19 mm) diam (or smaller) SDR 9 PEX tubing for use in closed (process or supply) piping systems.

B. **Electrical Nonmetallic Tubing+** — Nom 1 in. (25 mm) diam (or smaller) corrugated wall electrical nonmetallic tubing (ENT) constructed of polyvinyl chloride. ENT to be installed as a complete system with all terminations in junction boxes, outlet boxes or other approved enclosures as specified in the National Electric Code.

See **Electrical Nonmetallic Tubing** (FKHU) category in the Electrical Construction Materials Directory for names of manufacturers.

The hourly T Rating is dependent on the hourly rating of the wall assembly and the type of tube as shown in the following table:

Type of Tube	Wall Assembly Rating Hr	T Rating Hr
PEX	1	1
PEX	2	1-1/2
ENT	1	3/4
ENT	2	1-3/4

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

A. **Packing Material (Optional)** — In 2 hr wall assemblies, foam backer rod firmly packed into opening as a permanent form. Packing material to be recessed from both surfaces of wall as required to accommodate the required thickness of fill material.

B. **Fill, Void or Cavity Material*** — **Caulk** — Min 1/2 in. (12 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall.

A/D FIRE PROTECTION SYSTEMS INC — 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.**

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