



System No. W-J-2210 XHEZ.W-J-2210 Through-penetration Firestop Systems

[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.

XHEZ - Through-penetration Firestop Systems

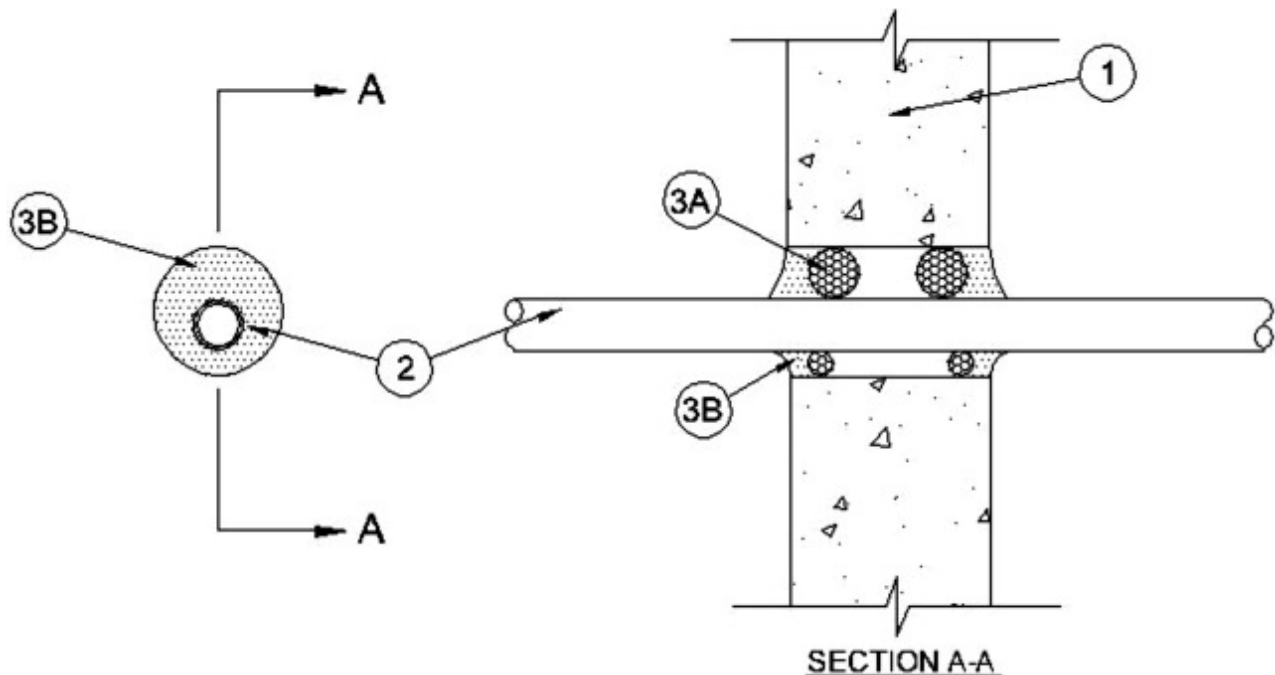
[See General Information for Through-penetration Firestop Systems](#)

System No. W-J-2210

June 13, 2016

F Rating — 1 & 2 Hr (See Item 1)

T Rating — 0, 1 & 2 Hr (See Items 1 and 2)



1. Wall Assembly — Min 5 in. (127 mm) or 6 in. (152 mm) thick reinforced lightweight or normal weight (100-150 pcf (1600-2400 kg/m³)) concrete for 1 hr or 2 hr F and T Ratings, respectively. Wall may also be constructed of any UL Classified **Concrete Blocks***. Max diam of opening is 4 in. (102 mm).

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

2. Through Penetrants — One nonmetallic pipe to be installed either concentrically or eccentrically within the firestop system. Pipe to be rigidly supported on both sides of wall assembly. The following types and sizes of nonmetallic pipes

may be used:

A. **Polyvinyl Chloride (PVC) Pipe** — Nom 2 in. (51 mm) diam (or smaller) Schedule 40 solid core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems. The diam of the opening shall be 7/8 in. (22 mm) larger than the penetrant. The annular space between pipe and periphery of opening shall be min 0 (point contact) to max 7/8 in. (22 mm). **For use with 1 hr wall constructions only. When used, F Rating is 1 hr and T Rating is 0 hr.**

B. **Polyvinyl Chloride (PVC) Pipe** — Nom 2 in. (51 mm) diam (or smaller) Schedule 40 solid core PVC pipe for use in closed (process or supply) piping systems. The annular space between pipe and periphery of opening shall be min 1/4 in. (6 mm) to max 1-3/8 in. (35 mm).

C. **Chlorinated Polyvinyl Chloride (CPVC) Pipe** — Nom 2 in. (51 mm) diam (or smaller) SDR 13.5 CPVC pipe for use in closed (process or supply) piping systems. The annular space between pipe and periphery of opening shall be min 1/4 in. (6 mm) to max 1-3/8 in. (35 mm).

D. **Acrylonitrile Butadiene Styrene (ABS) Pipe** — Nom 2 in. (51 mm) diam (or smaller) Schedule 40 solid-core ABS pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems. The annular space between pipe and periphery of opening shall be min 1/4 in. (6 mm) to max 7/8 in. (22 mm).

E. **Crosslinked Polyethylene (PEX) Tube** — Nom 1 in. (25 mm) diam (or smaller) SDR 9 PEX tubing for use in closed (process or supply) piping systems. The annular space between tube and periphery of opening shall be min 1/4 in. (6 mm) to max 1-3/8 in. (35 mm).

F. **Rigid Nonmetallic Conduit** — Nom 2 in. (51 mm) diam (or smaller), Schedule 40 PVC conduit installed in accordance with Article 347 of the National Electrical Code (NFPA No. 70). The annular space between conduit and periphery of opening shall be min 1/4 in. (6 mm) to max 1-3/8 in. (35 mm).

G. **Chlorinated Polyvinyl Chloride (CPVC) Pipe** — Nom 2 in. diam (or smaller) FLOWGUARD GOLD® SDR11 CPVC for use in closed (process or supply) piping systems. The annular space between conduit and periphery of opening shall be min 1/4 in. (6 mm) to max 1-3/8 in. (35 mm).

H. **Chlorinated Polyvinyl Chloride (CPVC) Pipe** — Nom 2 in. diam (or smaller) BLAZEMASTER® SDR13.5 CPVC for use in closed (process or supply) piping systems. The annular space between conduit and periphery of opening shall be min 1/4 in. (6 mm) to max 1-3/8 in. (35 mm).

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

A. **Packing Material** — 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 to accommodate the required thickness of fill material.

B. **Fill, Void or Cavity Material* - Caulk** — Min 5/8 in. (16 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall. Additional fill material to be installed such that a min 1/4 in. (6 mm) crown is formed around the penetrating item.

A/D FIRE PROTECTION SYSTEMS INC — 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 2016-06-13

[Questions?](#)

[Print this page](#)

[Terms of Use](#)

[Page Top](#)

© 2017 UL LLC

The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under UL's Follow-Up Service. Only those products bearing the UL Mark should be considered to be Certified and covered under UL's Follow-Up Service. Always look for the Mark on the product.

UL permits the reproduction of the material contained in the Online Certification Directory subject to the following conditions: 1. The Guide Information, Assemblies, Constructions, Designs, Systems, and/or Certifications (files) must be presented in their entirety and in a non-misleading manner, without any manipulation of the data (or drawings). 2. The statement "Reprinted from the Online Certifications Directory with permission from UL" must appear adjacent to the extracted material. In addition, the reprinted material must include a copyright notice in the following format: "© 2017 UL LLC".