



**System No. W-L-1066**  
**XHEZ.W-L-1066**  
**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.
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**XHEZ - Through-penetration Firestop Systems**

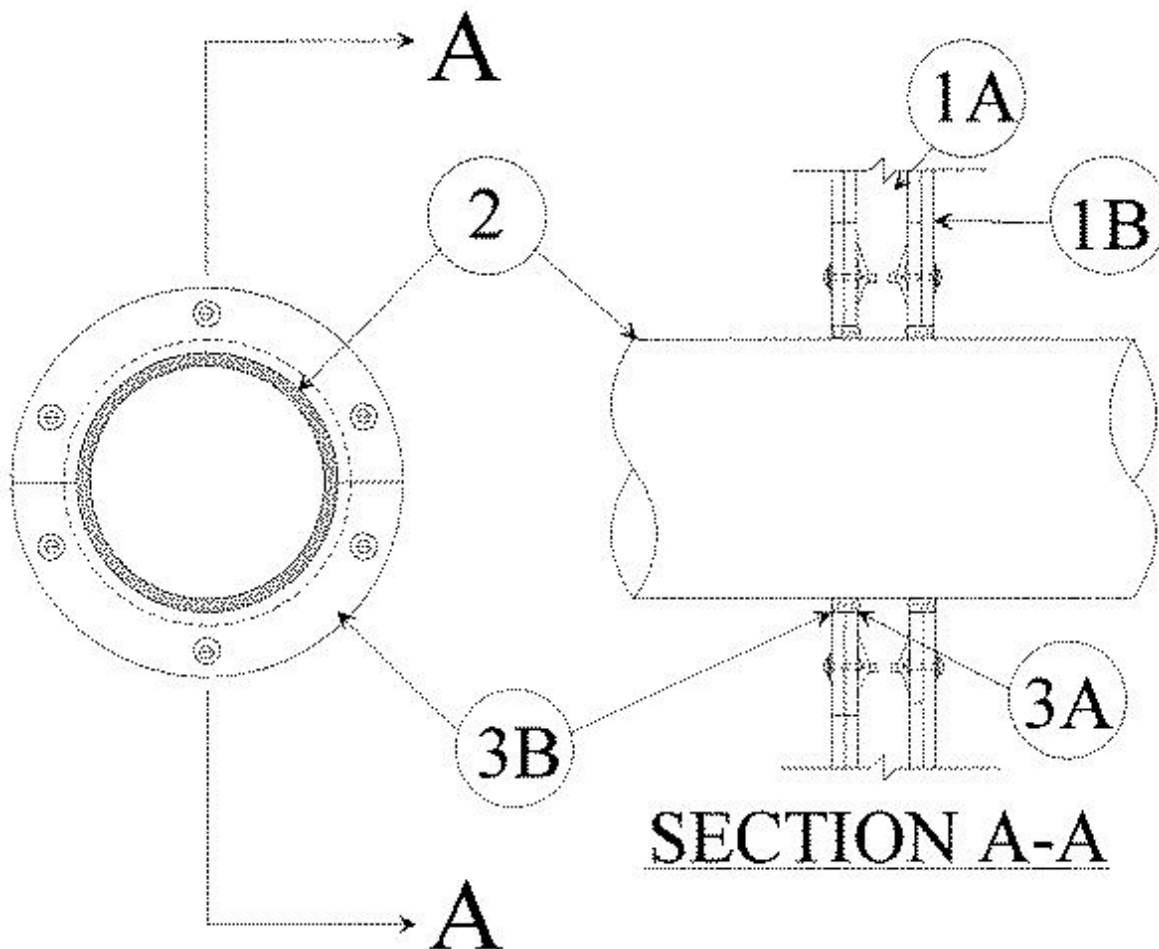
[See General Information for Through-penetration Firestop Systems](#)

**System No. W-L-1066**

September 29, 1993

**F Rating — 2 Hr (See Item 1B)**

**T Rating — 0 Hr**



**1. Wall Assembly** — The 1 or 2 h fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall or Partition Design in the UL Fire Resistance Directory and shall include the following construction features:

**A. Studs** — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC. Steel studs to be min 2-1/2 in. wide and spaced max 24 in. OC.

**B. Gypsum Board\*** — 1/2 in. thick, 4 ft wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 11-7/16 in.

The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.

**2. Through-Penetrants** — One metallic pipe, conduit or tubing to be centered within the firestop system. A nom annular space of 1/4 in. is required within the firestop system. Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduit or tubing may be used

**A. Steel Pipe** — Nom 10 in. diam (or smaller) Schedule 40 (or heavier) steel pipe.

**B. Conduit** — Nom 4 in. diam (or smaller) electrical metallic tubing or steel conduit.

**C. Copper Tubing** — Nom 3 in. (or smaller) Type M (or heavier) copper tube.

**D. Copper Pipe** — Nom 3 in. (or smaller) Regular (or heavier) copper pipe.

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

**A. Fill, Void or Cavity Material\* — Caulk** — In 2 h fire-rated assemblies, min 1 in. thickness of fill material applied within the annulus on both surfaces of wall. In 1 h fire-rated assemblies, min 1/2 in. thickness of fill material applied within the annulus on both surfaces of wall.

**B. Cover Plate** — Min 0.021 in. thick (No. 25 MSG) galv steel cover plate extending a min of 2 in. beyond the periphery of the opening. Cover plate secured to both surfaces of wall by means of 1/8 in. diam by 2 in. long toggle bolts in conjunction with 3/16 in. diam by 1-1/4 in. steel fender washers spaced 6 in. OC.

**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.**

Last Updated on 1993-09-29

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