



System No. W-L-3042
XHEZ.W-L-3042
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

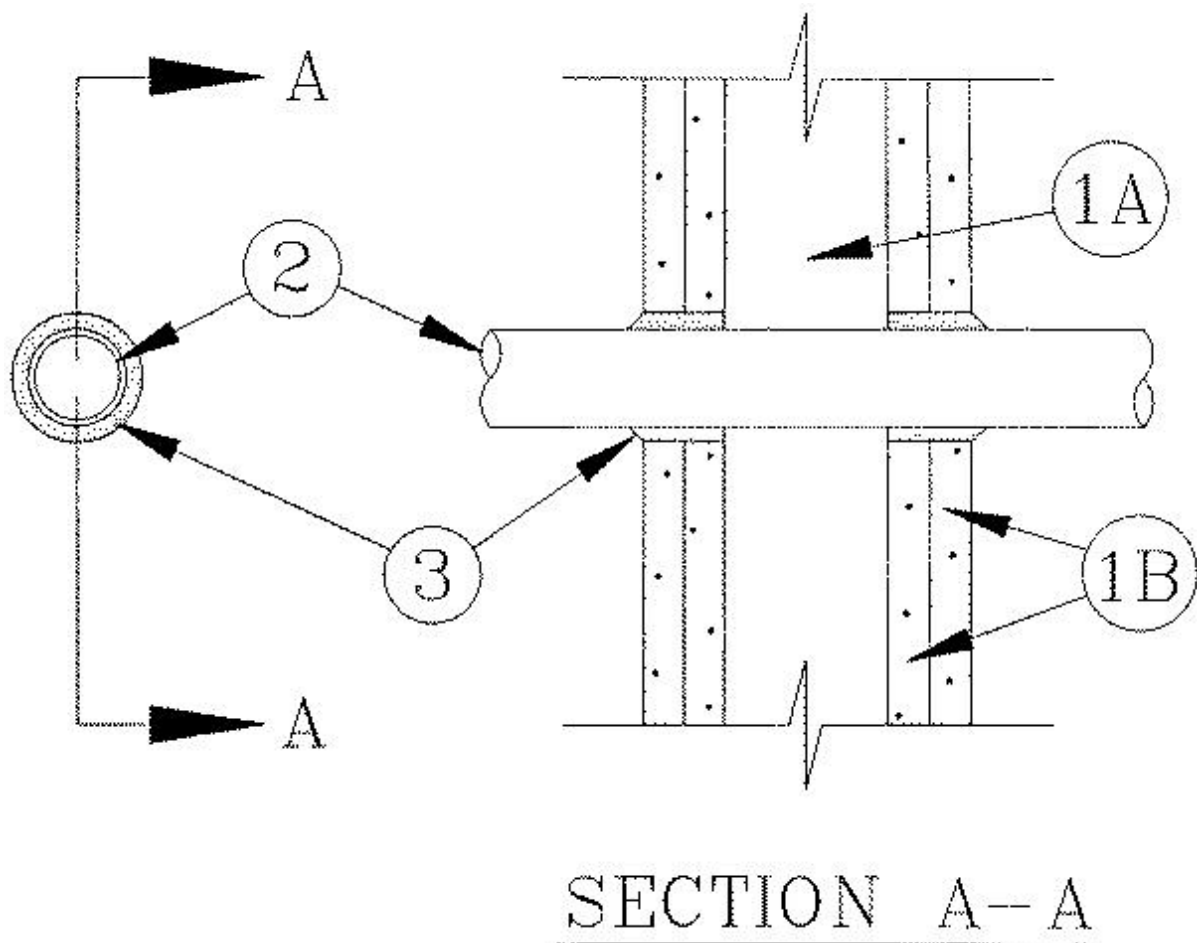
See General Information for Through-penetration Firestop Systems

System No. W-L-3042

November 15, 1994

F Rating — 1 and 2 Hr (See Item 2)

T Ratings — 0, 1 and 2 Hr (See Item 2)



1. **Wall Assembly** — The fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs on 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 2 in.

2. **Cables** — One cable to be centered within the firestop system. A nom annular space of 1/4 in. is required within the firestop system. Cable to be rigidly supported on both sides of wall assembly. The following types and sizes of copper conductor cables may be used:

- A. 1/C-500 kcmil (or smaller) cable with cross-linked polyethylene insulation and jacket.
- B. 100 pair No. 24 AWG (or smaller) cable with polyvinyl chloride (PVC) insulation and jacket.
- C. Type RG/U coaxial cable with fluorinated ethylene propylene insulation and jacket.
- D. Max 2/C — No. 12 AWG (or smaller) cable with (PVC) insulation and jacket.
- E. Max 3/C with ground — No. 10 AWG (or smaller) Type NM nonmetallic sheathed cable.

The F and T Ratings of the firestop system is dependent upon the hourly fire rating of the wall assembly and type of cable used as tabulated below:

Fire Rating of Wall Assembly Hr	Cable Type	F Rating Hr	T Rating Hr
1	1/C-500 kcmil	1	0
1	100 pair No. 24 AWG	1	0
1	RG/U	1	1
1	3/C No. 10 AWG	1	0

1	2/C No. 12 AWG	1	0
2	1/C-500 kcmil	2	0
2	100 Pair No. 24 AWG	2	0
2	RG/U	2	2
2	3/C No. 10 AWG	2	0
2	2/C No. 12 AWG	2	0

3. 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. Additional fill material to be installed such that a min 1/4 in. crown is formed around the penetrating item.

In 1 h fire-rated assemblies, min 1/2 in. thickness of fill material applied within annulus on both surfaces of wall. Additional fill material to be installed such that a min 3/4 in. crown is formed around the penetrating item and lapping 1 in. beyond periphery of opening.

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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