System No. W-L-2491
XHEZ.W-L-2491
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

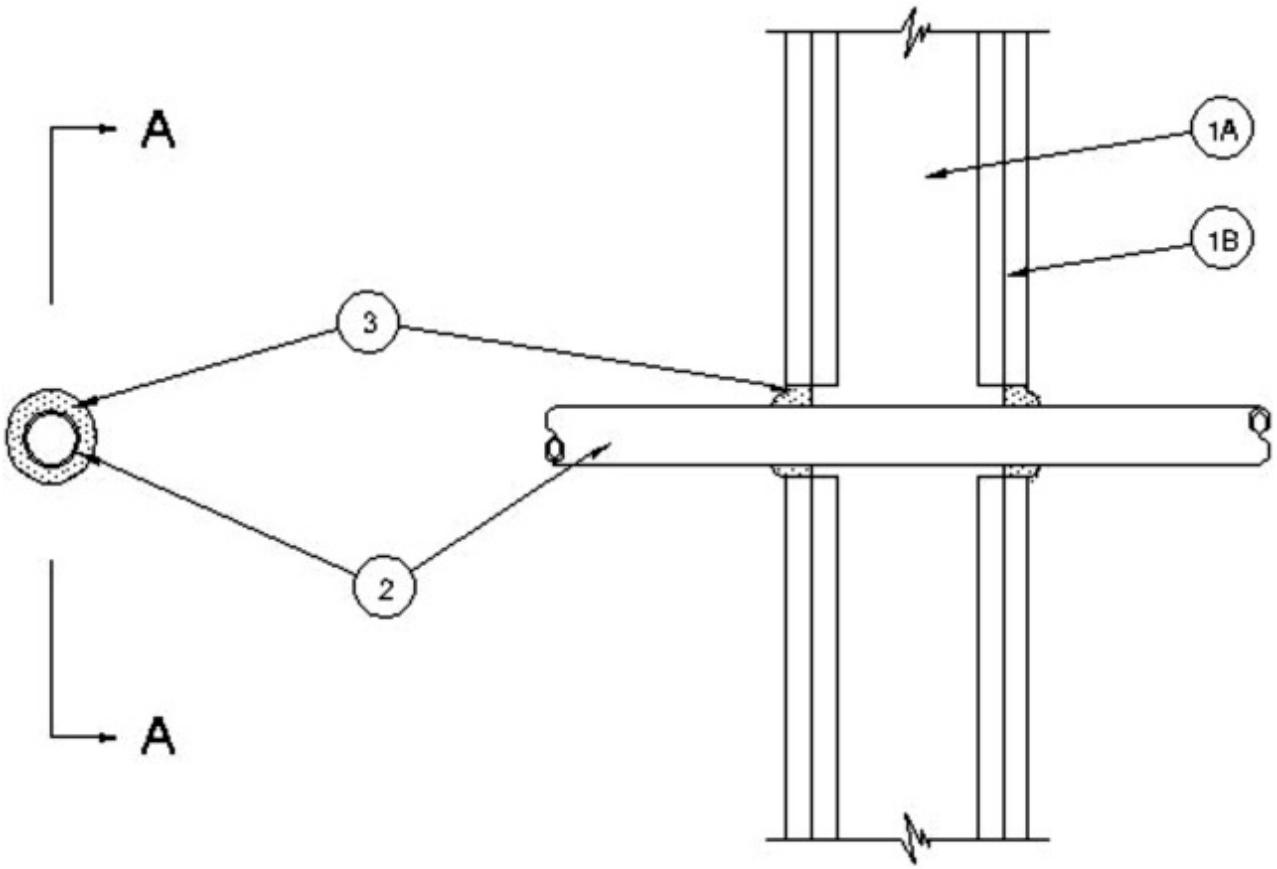
System No. W-L-2491

February 16, 2007

F Ratings — 1 and 2 Hr (See Item 1)

T Ratings — 0, 1-3/4 and 2 Hr (See Items 1 and 3)

L Rating at Ambient — Less Than 1 CFM/sq ft



SECTION A-A

1. **Wall Assembly —** The 1 and 2 hr fire rated gypsum board/stud wall assemblies shall be constructed of the materials and in the manner specified in the individual U300, U400 or V400 Series Wall and Partition Designs 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. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide and spaced max 24 in. (610 mm) OC.

B. **Gypsum Board* —** 5/8 in. (16 mm) thick, 4 ft. (122 cm) wide with square or tapered edges. Thickness, type, number of layers and fasteners as required in the individual Wall and Partition Design. Max diam of opening is 2-11/16 in. (68 mm).

The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed. The T Rating is 0 hr for 1 hr rated walls and 1-3/4 hr or 2 hr (see Item 3) for 2 hr rated walls.

2. **Through Penetrants —** One nonmetallic pipe to be installed within the firestop system. The annular space between the pipe and periphery of opening shall be min of 1/4 in. (6 mm) to max 1/2 in. (13 mm). 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 1-1/2 in. (38 mm) diam (or smaller) Schedule 40 solid core or cellular core PVC pipe for use in closed (process or supply) piping systems. Cellular core PVC pipe is limited to use with the A/D FIREBARRIER Putty II fill material only (Item 3).

B. **Chlorinated Polyvinyl Chloride (CPVC) Pipe —** Nom 1-1/2 in. (38 mm) diam (or smaller) SDR13.5 CPVC pipe for use in closed (process or supply) piping systems.

3. **Fill, Void or Cavity Materials* —** Min 5/8 in. (16 mm) thickness of fill material applied within annulus, flush with both surfaces of wall assembly. Additional fill material to be installed such that a min 3/8 in. (10 mm) thick crown is formed around the pipe on both sides of wall.

A/D FIRE PROTECTION SYSTEMS INC — A/D FIREBARRIER Acrylic Sealant, A/D FIREBARRIER Intumescent Sealant, or A/D FIREBARRIER Putty II

For 2 hr rated walls, the T Rating is 1-3/4 hr, except that the T Rating is 2 hr when the A/D FIREBARRIER Putty II fill material is used.

*** 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 2007-02-16

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