



System No. W-J-2141
XHEZ7.W-J-2141
Through-penetration Firestop Systems Certified for Canada

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

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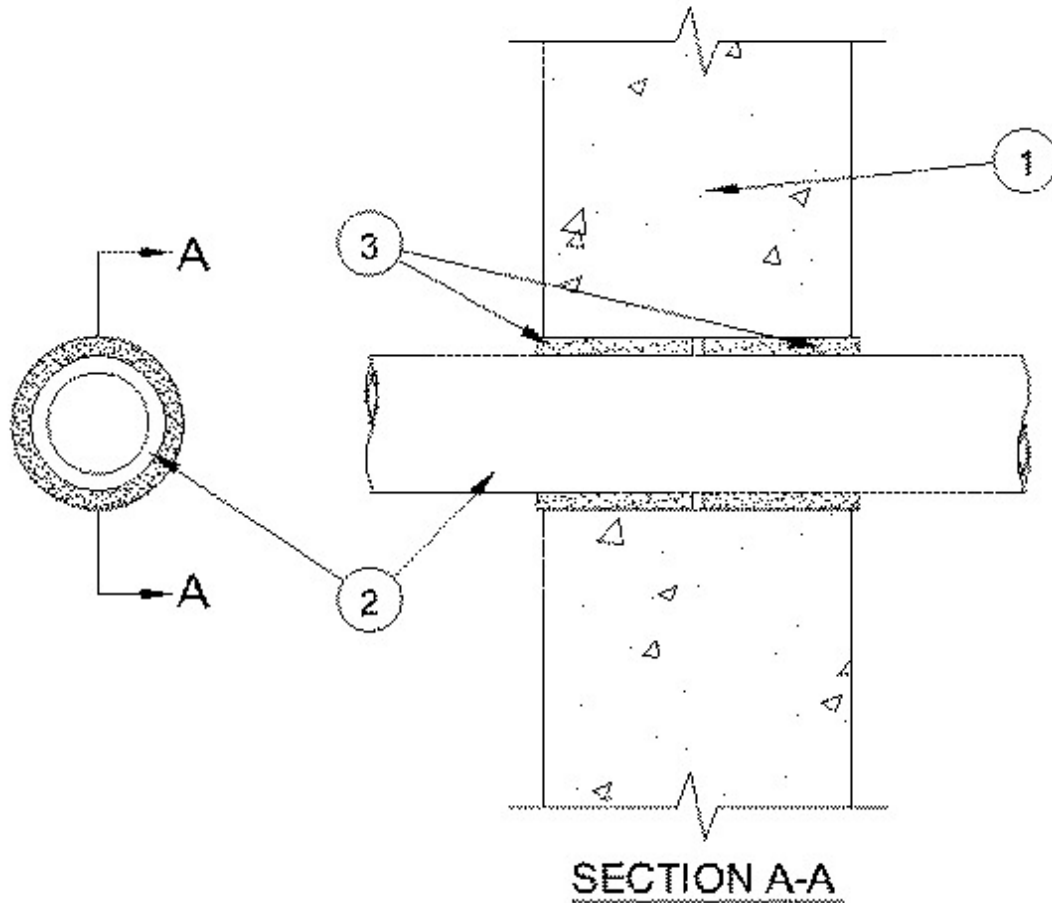
November 25, 2003

F Ratings — 1 or 2 Hr (See item 3)

FT Ratings — 0, 3/4 or 1 Hr (See item 3)

FH Ratings — 1 or 2 Hr (See item 3)

FTH Ratings — 0, 3/4 or 1 Hr (See item 3)



System tested with a pressure differential of 50 Pa between the exposed and the unexposed surfaces with the higher pressure on the exposed side.

1. Wall Assembly — Reinforced lightweight or normal weight 1600-2400 kg/m³ (100-150 pcf) concrete. The thickness of the wall assembly shall be as shown in the table under Item 3. Wall may also be constructed of any UL Classified **Concrete Blocks***. Max diam of opening is 92 mm (3-5/8 in.)

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

2. Through Penetrants — One nonmetallic pipe to be positioned within a nom 8 to 16 mm (5/16 to 5/8 in.) range of annular space within the firestop system when one or two layers of wrap strip are used, respectively. Pipe to be rigidly supported on both sides of wall assembly. The following types and sizes of nonmetallic pipes or conduits may be used:

A. **Polyvinyl Chloride (PVC) Pipe** — Nom 51 mm (2 in.) diam (or smaller) Schedule 40 solid core PVC pipe for use in vented (drain, waste or vent) piping systems. Nom 38 mm (1-1/2 in.) diam (or smaller) Schedule 40 cellular or solid core PVC pipe for use in vented (drain, waste or vent) piping systems.

B. **Cross Linked Polyethylene (PEX) Tubing** — Nom. 25 mm (1 in.) diam (or smaller) SDR 9 PEX tubing for use in closed (process or supply) piping systems.

C. **Acrylonitrile Butadiene Styrene (ABS) Pipe** — Nom 51 mm (2 in.) diam (or smaller) Schedule 40 cellular or solid core ABS pipe for use in vented (drain, waste or vent) piping systems.

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

A. **Fill, Void or Cavity Material* - Wrap Strip** — One two layer of nom 6 mm (1/4 in.) thick by 51mm (2 in.) wide or 1 or 2 layers of nom 6 mm (1/4 in.) thick by 25 mm (1 in.) wide wrap strip wrapped around the outer circumference of the pipe and secured with tape or wire and wrap strip slid into annular space such that the ends are flush with or extend a max of 3 mm (1/8 in.) beyond the surface of the wall. Wrap strips are installed on each surface of the wall. The F, FT, FH and FTH Ratings are dependent upon the pipe type, the nom pipe diam, the wall thickness, the wrap strip width and the number of wrap strip layers, as shown in the following table.

Pipe Type	Nom Pipe Diam mm (in.)	Min Wall Thkns mm (in.)	Wrap Strip Width mm (in.)	Min Wrap Strip Layers	F Rating Hr	FT Rating Hr	FH Rating Hr	FTH Rating Hr
PVC	0 to	152	25 (1)	2	2	1	2	1

Solid Core	51 (0 to 2)	(6)						
PVC Solid or Cellular Core	0 to 38 (0 to 1-1/2)	114 (4-1/2)	25 (1)	1	1	3/4	1	3/4
PEX	0 to 25 (0 to 1)	114 (4-1/2)	25 (1)	1	1	1	1	1
ABS	51 (2)	152 (6)	51 (2)	1	2	0	2	0

A/D FIRE PROTECTION SYSTEMS INC — A/D FireBarrier Wrap Strip

*** 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 2003-11-25

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