



System No. W-J-7103
XHEZ.W-J-7103
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](#)

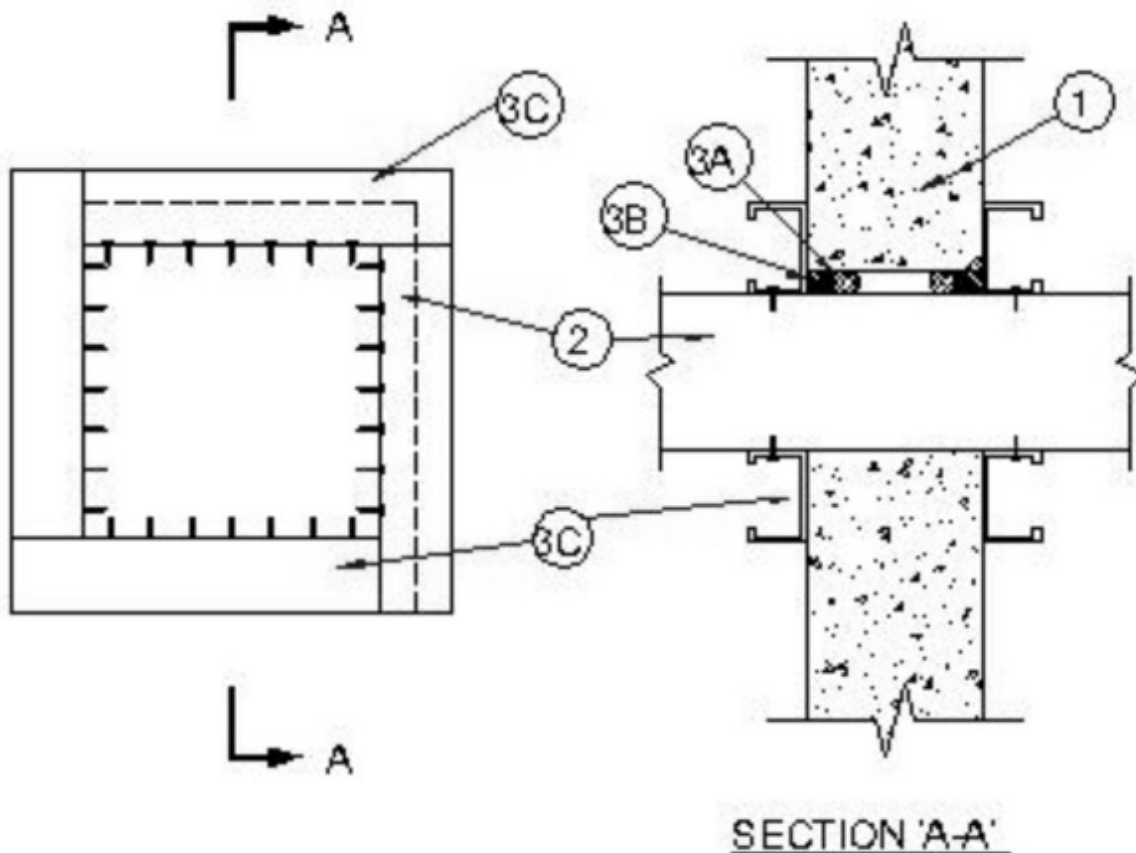
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January 29, 2008

F Rating — 2 Hr

T Rating — 0 Hr

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



1. **Wall Assembly** — Min 6 in. thick reinforced lightweight or normal weight (100-150 pcf) concrete. Wall may also be constructed of any UL Classified **Concrete Blocks***. Max size of opening is 992 sq in. with a max dimension of 32 in.

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

2. **Steel Duct** — Nom 30 in. by 30 in. (762 by 762 mm) (or smaller) No. 24 gauge (or heavier) galvanized steel duct to be installed either concentrically or eccentrically within the firestop system. The space between the steel duct and periphery of opening shall be min 0 in. (point contact) to max 2 in. (51 mm). Steel duct to be rigidly supported on both sides of the wall assembly.

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

A. **Packing Material** — (Optional) — Foam backer rod friction fit into annular space for 2 hr fire-rated wall assemblies only. Packing material to be recessed from both surfaces of wall as required to accommodate the required thickness of fill material.

B. **Fill, Void or Cavity Material*** — Min 5/8 in. (16 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall. At the point contact locations between steel duct and concrete, a min 3/8 in. (10 mm) diameter bead of fill material shall be applied at the concrete/steel duct interface on both surfaces of wall assembly.

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

C. **Steel Retaining Channels** — Min 3-5/8 in. by 1-1/4 in. (92 by 32 mm) by No. 30 gauge galv steel channels. Channels attached to all four sides of steel duct on both faces of wall with min No. 10 steel sheet metal screws spaced a max of 1 in. (25 mm) from each end of steel duct and spaced a max 3-1/2 in. (89 mm) OC. Channels to lap wall min of 1-5/8 in. (41 mm) around periphery of opening on both faces of wall. When steel duct size does not exceed 15 by 15 in. (381 by 381 mm), and max annular space does not exceed 1/2 in. (13 mm), channels are required on one face of wall only.

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

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.

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