UL Product iQ™



XHEZ.C-AJ-8320 - Through-penetration Firestop Systems

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. C-AJ-8320

July 09, 2020

ANSI/UL1479 (ASTM E814)

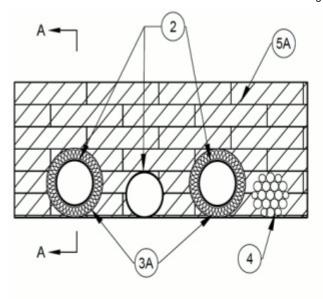
F Rating — 2 Hr
T Rating — 1/4, 1-1/2 and 2 Hr (See Items 2, 3 and 4)

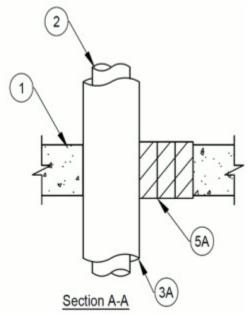
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1. **Floor or Wall Assembly** — Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete. Wall may also be constructed of any UL Classified **Concrete Blocks*.** Max area of opening is 384 in.² (2477 cm²) with a max dimension of 32 in. (813 mm).

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

- 2. **Through-Penetrant** One or more pipes or tubes to be installed within the opening. The total number of through-penetrants is dependent on the size of the opening and types and sizes of the penetrants. Any combination of the penetrants described below may be used provided that the following parameters relative to the annular spaces and the spacing between the pipes are maintained. The separation between cable bundle, tubes and insulated tubes shall be a min 1 in. (25 mm) to max 3-1/2 in. (89 mm). The annular space between penetrants and the periphery of opening shall be a min 0 in. (point contact) to max 7-7/8 in. (200 mm). Pipes or tubes to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic pipes or tubes may be used:
 - A. Copper Tubing Nom 4 in. (102 mm) diam (or smaller) Type L (or heavier) copper tube.
 - B. Copper Pipe Nom 4 in. (102 mm) diam (or smaller) Regular (or heavier) copper pipe.
 - C. Steel Pipe Nom 4 in. (102 mm) diam (or smaller) Schedule 5 (or heavier) steel pipe.
 - D. Iron Pipe Nom 4 in. (102 mm) diam (or smaller) cast or ductile pipe.
 - E. Iron Pipe Nom 4 in. (102 mm) diam (or smaller) electric metallic tubing (EMT) or steel conduit.

The hourly T Rating shall not exceed 1/4 hr when metallic pipe or tubing is used with no pipe insulation.

3. **Pipe Insulation** — (Optional) — The following types of pipe insulation may be used:

A. **Pipe Covering*** — Nom 1 in. (25 mm) or thinner thick hollow cylindrical heavy density (min 3.5 pcf) glass fiber units jacketed on the outside with an all service jacket. Longitudinal joints sealed with metal fasteners or factory-applied self-cooki sealing to tape. Transverse joints secured with metal fasteners or with butt tape supplied with the product. **The hourly T Rating shall not exceed 2 hr when metallic pipe or tubing is used with this pipe covering.**

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contended repealed Equipment Covering — Materials (BRGU) category in the Building Materials Directory for names of manufacturers.

media Any pipe covering material meeting the above specifications and bearing the UL Classification Markin of 25 or less and a Smoke Developed Index of 50 or less may be used. Cookie Settings

Table 1. Accept

4. Cables II Max 4 in (152 mm) diam tight bundle of cables installed within the opening and rigidly supported on both sides softled not will, assembly the space between the cables and periphery of the opening shall range from min 0 in. (point approximately to present in each notice cable may be used:

A. Max 1/C 750 kcmil single copper connector power cable with thermoplastic insulation and polyvinyl chloride (PVC) jacket.

- B. Max 300 pair No. 24 AWG copper conductor telecommunication cables with PVC insulation and jacket material.
- C. Max 7/C copper conductor No. 12 AWG multiconductor power and control cables with PVC or cross-linked polyethylene (XLPE) insulation and PVC jacket.
- D. Multiple fiber optical communication cables jacketed with PVC and having a max outside diam of 1/2 in. (13 mm).
- E. Max 3/C copper conductor No. 10 AWG (or smaller) with bare aluminum ground, PVC insulated steel or aluminum metal-clad cable.
- F. Max No. 18 AWG Type RG/6 coaxial cable with polyvinyl chloride insulation.

The hourly T Rating shall not exceed 1-1/2 hr when cables are used.

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

A. **Fill, Void or Cavity Material*** — Blocks tightly-packed into the opening to fill annular space between penetrants and periphery of opening and installed with 5 in. (127 mm) dimension projecting through floor or wall and centered within the opening.

TENMAT INC — Fire Protection Block FF260

B. **Fill, Void or Cavity Material*** — (Not Shown) — Fill material applied to any voids between and around penetrating items and fire blocks within the opening. Fill material to be applied from top surface of floor or both sides of wall. Fill material to be forced between the periphery and blocks.

TENMAT INC — Fire Protection Sealant FF365

* 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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