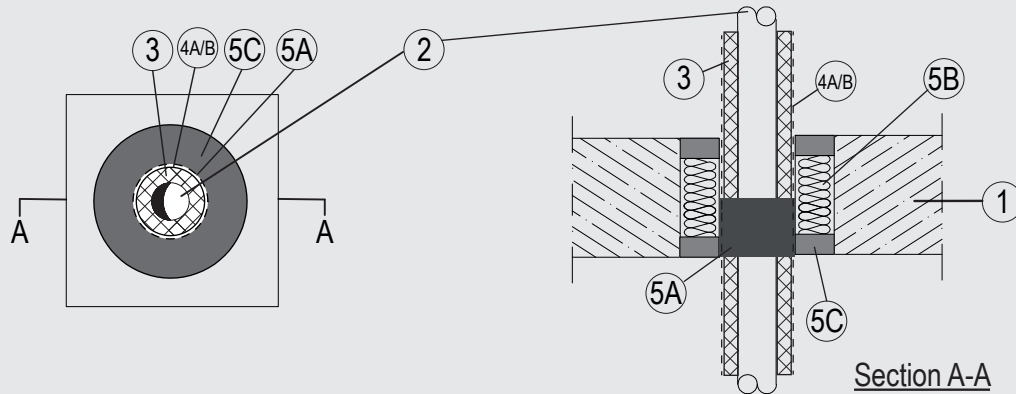


Through-penetration Firestop Systems

System No. C-AJ-5456

| ANSI/UL1479 (ASTM E814) | CAN / ULC S115 |
|-------------------------------------|--|
| F Rating – 2 or 3 Hr (see Item 2) | F Rating – 0, 2 or 3 Hr (see Item 2) |
| T Rating – 1/2 or 2 Hr (see Item 2) | FT Rating – 0, 1/2 or 2 Hr (see Item 2) |
| | FH Rating – 0, 2 or 3 Hr (see Item 2) |
| | FTH Rating – 0, 1/2 or 2 Hr (see Item 2) |



System tested with a pressure differential of 2.5 Pa between the exposed and the unexposed surfaces with the higher pressure on the exposed side.

1. Floor or Wall Assembly

Min. 4-1/2 in. (115 mm) thick normal weight (nom. 135-150 pcf or nom. 2160-2400 kg/m³) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Opening shall be circular or rectangular with max diameter or dimensions of 7-2/3in. (195 mm).

See Concrete Blocks (CAZT) category in UL ProductIQ for names of manufacturers.

2. Through Penetrant

One pipe or tubing to be installed concentrically (Item 2A, 2C and 2D), concentrically or eccentrically (Item 2B) within the firestop system. Pipe or tubing to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of pipes or tubes may be used:

- A. Polyvinyl Chloride (PVC) Pipe – Nom 4-1/3 in. (110 mm) diam (or smaller) 0.13 in. (3.2 mm) wall thickness PVC pipe for use in closed (process or supply) piping systems.
- B. Steel Pipe – Nom 2 in. (50 mm) diam (or smaller) 0.08 in. (2 mm) (or thicker) steel pipe.
- C. Polyvinyl Chloride (PVC) Pipe – Nom 2 in. (50 mm) diam (or smaller) 0.15 in. (3.7 mm) wall thickness PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.

Item 2A is not eligible for cUL rating.

The hourly T Rating shall not exceed 1/2 hr when Item 2A is used.

The hourly F and FH Ratings shall not exceed 2 hr when Item 2C is used.

3. Pipe Covering*

Nom 1.22 in. (31 mm) thick (Item 2A), Nom 1.08 in. (27.5 mm) thick (Item 2B and 2C) acrylonitrile butadiene/polyvinylchloride (AB/PVC) flexible foam furnished in the form of tubing. The annular space between the insulated pipe or tubing and periphery of the opening shall be min 0 in. (point contact) to max 0.8 in. (20 mm).

See Plastics+ (QMFZ2) category in the Plastics Recognized Component Directory for names of manufacturers. Any Recognized Component tube insulation material meeting the above specifications and having a UL 94 Flammability Classification of 95-5VA may be used.



4. Coating*

(in conjunction with Item 2A and 2B) Nom 0.08 in. (2 mm) dry film thickness to be applied onto insulated pipe or tubing in accordance with the manufacturer's instructions.

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A. (Not shown, in conjunction with Item 2C) Nom 0.08 in. (2 mm) dry film thickness to be applied onto insulated pipe or tubing in accordance with the manufacturer's instructions.

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5. Firestop System

The Through-Penetration Firestop System shall consist of the following:

A. Fill, Void or Cavity Material* – 1 layer of 1/16 in (1.5 mm) by 2 in. (50 mm) wrap flush mounted on the exposed side of floor or both sides of wall assembly and wrapped around the coated pipe covering (Item 3).

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B. Packing Material – Min 4-1/3 in. (110 mm) thickness of min 6 pcf (100 kg/m³) mineral wool insulation firmly packed into annulus as a permanent form. Packing material to be recessed from both surfaces of floor or wall to accommodate the required thickness of fill material.

C. Fill, Void or Cavity Material* – Min 0.08 in. (2 mm) thickness of fill material applied within the annulus, flush with both surfaces of floor or wall assembly.

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*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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