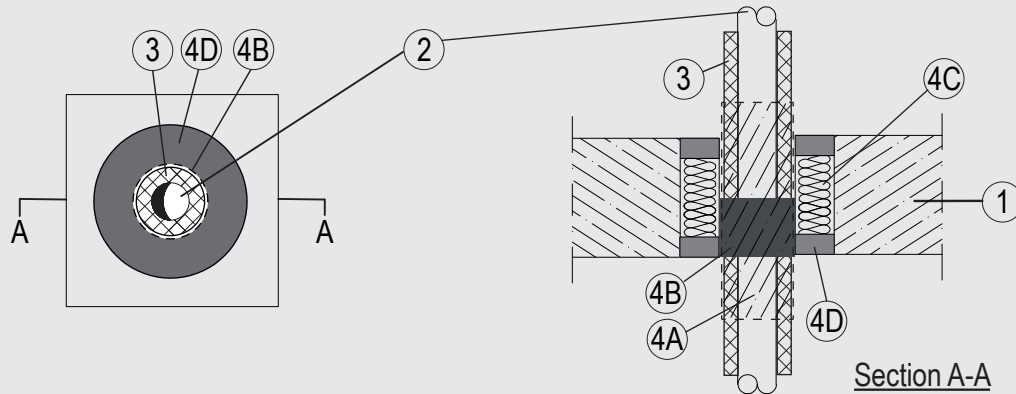


# Through-penetration Firestop Systems

## System No. C-AJ-5453

ANSI/UL1479 (ASTM E814)	CAN / ULC S115
F Rating – 3 Hr	F Rating – 3 Hr
T Rating – 1 Hr	FT Rating – 1 Hr
	FH Rating – 3 Hr
	FTH Rating – 1 Hr



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/m<sup>3</sup>) 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 plastic pipe or tubing to be installed either concentrically or eccentrically 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 plastic 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) or vented (drain, waste or vent) piping systems.

### 3. Pipe Covering Cellular Glass Insulation

Nom 1.2 in. (30 mm) thick cellular glass units sized to the outside diam of the pipe and supplied in nom 24 in. (600 mm) long half sections. Pipe insulation installed on pipe in accordance with the manufacturer's instructions. The annular space between insulated pipe or tubing and periphery of opening shall be min 0 in. (point contact) to max 0.8 in. (20 mm).

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### 4. Firestop System

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

- A. Fill, Void or Cavity Material\* – Min 0.04 in. (1 mm) dry film thickness to be applied onto Item 3 within the opening and min. 4 in. (100 mm) from both surfaces of floor or wall assembly.

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- B. 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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- C. Packing Material – Min 4-1/3 in. (110 mm) thickness of min 6 pcf (100 kg/m<sup>3</sup>) 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.

- D. 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. Reprinted from the Online Certifications Directory with permission from UL.