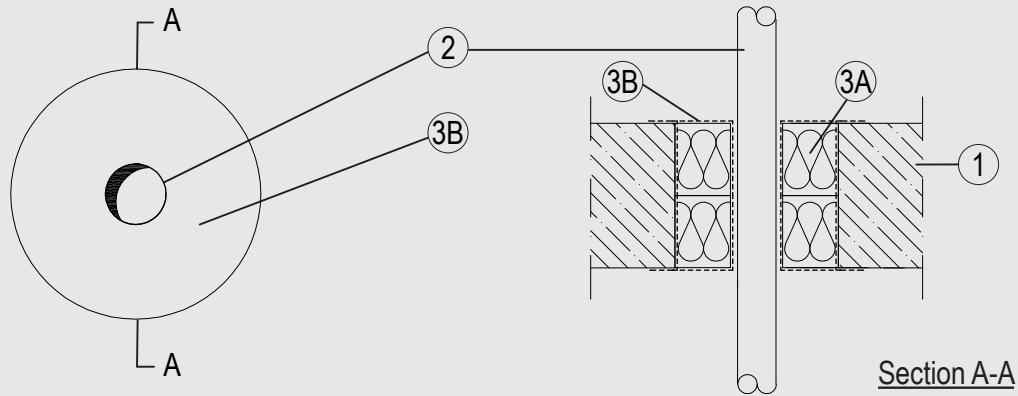


# Through-penetration Firestop Systems

## System No. F-A-1150

| ANSI/UL1479 (ASTM E814) | CAN / ULC S115    |
|-------------------------|-------------------|
| F Rating – 3 Hr         | F Rating – 3 Hr   |
| T Rating – 0 Hr         | FT Rating – 0 Hr  |
|                         | FH Rating – 3 Hr  |
|                         | FTH Rating – 0 Hr |



### 1. Floor Assembly

Lightweight or normal weight (100-150 pcf or 1600-2400 kg/m<sup>3</sup>) concrete, min thickness of solid concrete floor assembly is 4-1/2 in. (115 mm). Opening shall be circular or rectangular with max diameter or dimensions of 5-1/4 in. (132 mm).

### 2. Through-Penetrant

One penetrant to be installed within the opening. The annular space between the penetrant and the periphery of the opening to be a nom 2 in (50 mm). Penetrant to be rigidly supported on both sides of the floor assembly. The following penetrants may be used:

- A. Nominal 1-1/4 in. (32 mm) diameter (or smaller) Type M (or heavier) copper tube.
- B. Nominal 1-1/4 in. (32 mm) diameter (or smaller) Schedule 10 (or heavier) steel pipe.

### 3. Firestop System

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

- A. Packing Material – Nom. 2-3/8 in. (60 mm) thick mineral wool board min. 9.3 pcf (150 kg/m<sup>3</sup>) firmly packed into the opening of the floor as a permanent form. Packing material to be installed flush with both surfaces of floor.
- B. Fill, Void or Cavity Material\* – Min. 1/16 in. (2 mm) dry film thickness to be applied inside the aperture before installation and over the full surface of the mineral wool boards, and overlapping onto the concrete by min. 3/4 in. (20 mm).

**Flamro Brandschutz-Systeme GmbH – FLAMMOTECT-A**

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