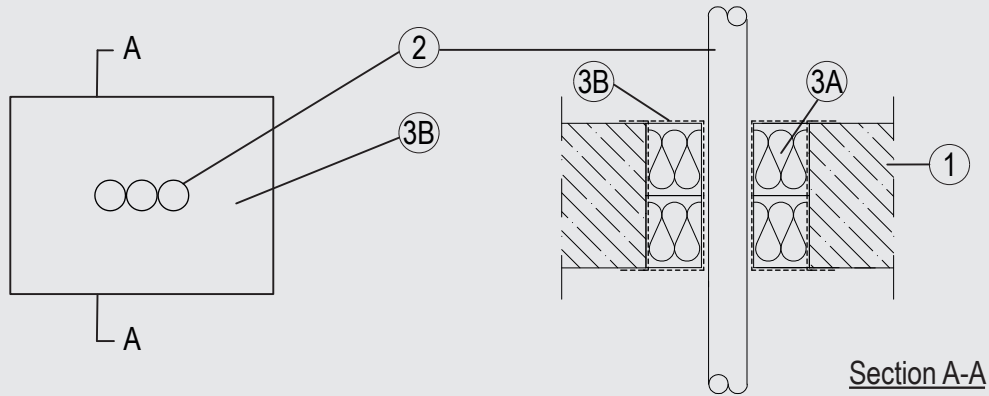


Through-penetration Firestop Systems

System No. F-A-1149

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



1. Floor Assembly

Lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete, min thickness of solid concrete floor assembly is 4-1/2 in. (115 mm). Opening shall be rectangular with max dimensions of 4-1/2 in. (116 mm) by 5-7/8 in. (148 mm).

2. Steel Pipes

Single or tight bundle to be installed within the opening on a cable tray. Aggregate cross-sectional area of pipes in opening to have a visual fill of min 0% to max 11%. The annular space between the pipes and the periphery of the opening to be a nom 2 in (50 mm). Pipes to be rigidly supported on both sides of the floor assembly. The following pipes may be used:

- A. Nominal 5/8 in. (17 mm) diameter (or smaller) Schedule 40 (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/m³) 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 floor by min. 3/4 in. (20 mm).

Flamro Brandschutz-Systeme GmbH – FLAMMOTECT-A

*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 Product iQ with permission from UL Solutions. ©2024 UL LLC.