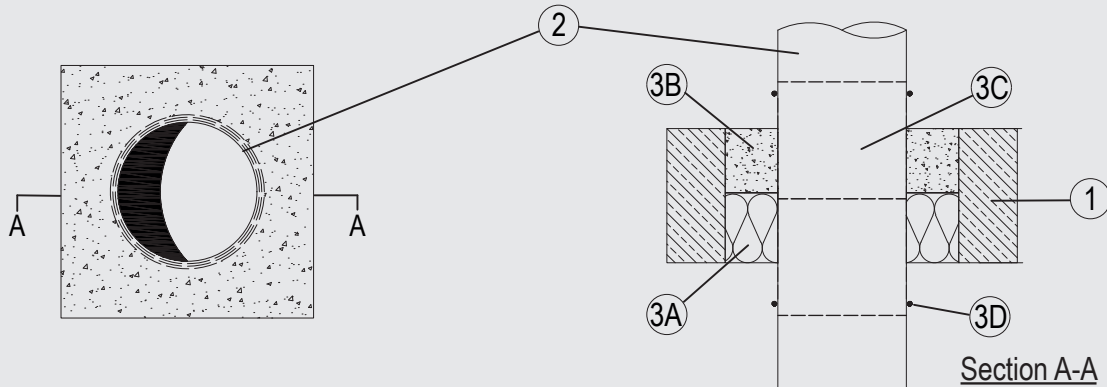


Through-penetration Firestop Systems

System No. F-A-2294

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

Min 4-1/2 in. (115 mm) thick lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete. Opening shall be rectangular with max dimensions of 7-7/8 in. (200 mm) by 7-7/8 in. (200 mm).

2. Pipes/ Tubes

Single to be installed within the opening. The annular space between the pipes and the periphery of the opening to be 1-3/4 in (45 mm). Pipes to be rigidly supported on both sides of the floor assembly.

- A. The following penetrants may be used: A. Nom 4-1/4 in (110mm) diam, 1/8 in. (3,2 mm) wall thickness PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
- B. Nom 4-1/4 in (110mm) diam, 1/8 in. (3,4 mm) wall thickness PE pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.

3. Firestop System

The Firestop System shall consist of the following:

- A. Packing Material – 1 layer of 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, flush to the bottom surface of the floor.
- B. Fill, Void or Cavity Material* – Min 2-1/8 in. (55 mm) cast into the annular space between the pipe and periphery of the opening, flush with the top surface of the floor. Mortar to be mixed with water in accordance with the manufacturer's installation instructions.
Flamro Brandschutz-Systeme GmbH – GFM
- C. Fill, Void or Cavity Material* – 2 lengths of 3 layers of 1/16 in (1.5 mm) by 4 in. (100 mm) wrap butt jointed centrally within the depth of the seal around the pipe to a total length of 8 in. (200 mm).
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- D. 24 AWG Steel wire tied around 3C at nom 1 in. (25 mm) from both faces of the seal.

*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.