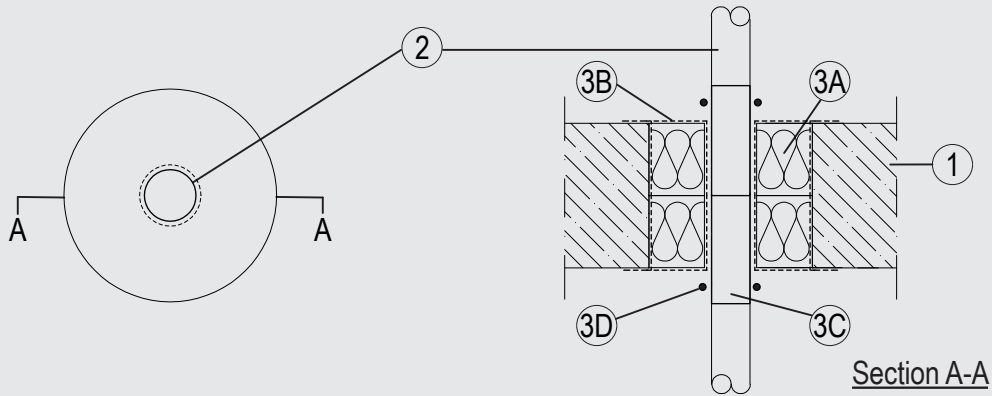


Through-penetration Firestop Systems

System No. C-AJ-2813

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 and Wall Assembly

Min. 4-1/2 in. (115 mm) thick lightweight or normal weight (100-150 pcf or 1600 - 2400 kg/m³) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Opening shall be circular or rectangular with max dimensions of 7-7/8 in. (200 mm).

See Concrete Blocks (CAZT) in the Fire Resistance Directory for names of manufacturers.

2. Pipes / Tubes

Single to be installed within the opening. The annular space between the pipes and the periphery of the opening to be 2 in (50 mm). Pipes to be rigidly supported on both sides of the floor or wall assembly. The following penetrants may be used:

- A. Nominal 1-1/4 in (32 mm) diameter, 1/16 in. (1.9 mm) wall thickness PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.

3. Firestop System

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

- A. Packing material – 2 layers 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.
- 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 wall or floor by min. 3/4 in. (20 mm).
Flamro Brandschutz-Systeme GmbH – FLAMMOTECT-A
- C. Fill, Void or Cavity Material* – 2 lengths of 1 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 bundle to a total length of 10 in. (200 mm).
Flamro Brandschutz-Systeme GmbH – DG-CR BS
- D. Min 24 AWG steel wire tied around 3C at nominally 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 the Online Certifications Directory with permission from UL.