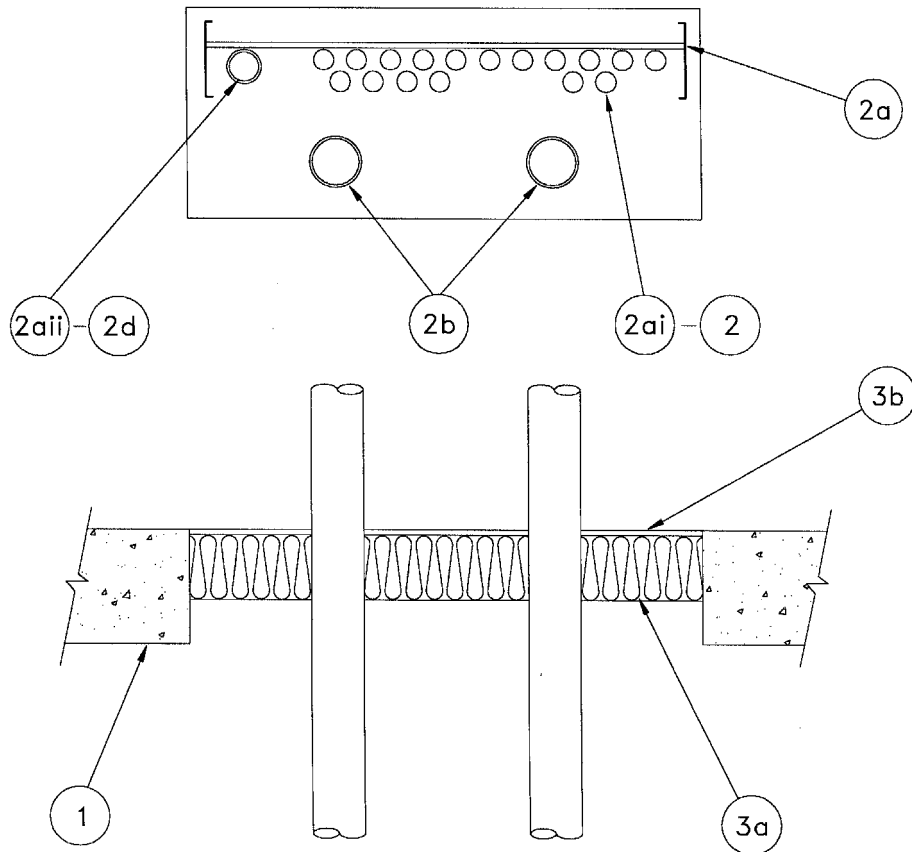


ULC System No. SP218
 (For Horizontal or Vertical Separations)
 F Rating - 3 h
 FT, FH and FTH Ratings - (See Item 2)



1. Floor – Normal-density concrete slab, 178 mm thick. Maximum size of opening 280 mm by 660 mm.

2. Pipes, Cables and Cable Trays – All penetrating items to be reliably supported above through-opening.

- (a) Nominal 90 mm by 620 mm steel ladder type cable tray spaced 25 mm from perimeter of opening. Maximum cable and conduit loading not to exceed 40% by area of cable tray made up of the following cable groupings:
 - (i) A maximum of 17 "6 AWG/4 90 XLPE TECH HL FT4 (-40C) FIREX-II 1000 V" cables.
 - (ii) One 56 mm OD, steel EMT conduit.
- (b) 90 mm diameter (maximum) Schedule 40 (or heavier), or 82 mm diameter (maximum) copper pipe, or 83 mm OD steel conduit, or 90 mm OD (maximum) cast or ductile iron pipe, minimum 1.5 mm wall thickness. Maintain minimum spaces of 38 mm between pipes and perimeter of opening, and 55 mm between pipes and other penetrating items.

ULC System SP218 continued...

- (c) Individual "6 AWG/4 90 XLPE TECH HL FTH (-40C) FIREX-II 1000 V" cables. Maintain minimum spaces of 25 mm between adjacent cables or between cable and other penetrating items.
- (d) Individual 56 mm OD steel EMT conduit spaced 30 mm from other penetrating items.

Type of Penetrating Items	Ratings, h		
	F	FT and FTH	FH
No penetrations	3	3	3
Item 2a (i)	3	0	3
Item 2a (ii)	3	0	3
Item 2b	3	0	0
Item 2c	3	0	3
Item 2d	3	0	3

•3. Firestop System Components – (Guide No. 40 U19.13).

- (a) Type **A/D Firebarrier Mineral Wool** to be compressed 33% (minimum) between penetrating item and perimeter of opening at minimum depth of 100 mm. Minimum 5 mm deep space to be left above mineral wool for the installation of seal (Item 3b).
- (b) Sealant - For horizontal separations, Type **A/D Firebarrier Seal** or **Seal NS** applied over mineral wool (Item 3a) to a minimum wet film thickness of 5 mm.
Sealant - For vertical separations, Type **A/D Firebarrier Seal NS** applied over mineral wool (Item 3a) to a minimum wet film thickness of 5 mm, symmetrically to both sides of the assembly.

A/D FIRE PROTECTION SYSTEMS INC.