

## XHEZC.SP395 Firestop Systems

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## **Firestop Systems**

See General Information for Firestop Systems

## System No. SP395

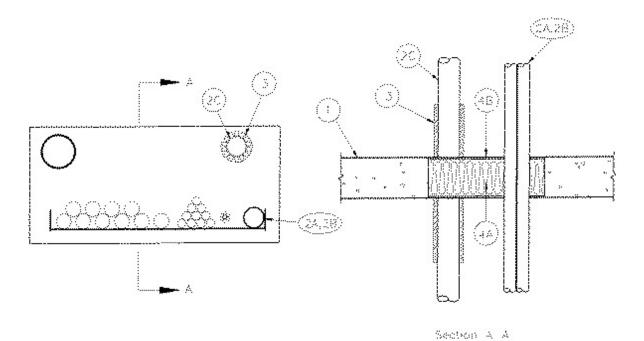
October 03, 2005

(For Horizontal or Vertical Separations)

F Ratings - 1-1/2 h

FH Rating - 0, 1-1/2 (See Item 2)

FT and FTH Ratings - 0 & 1 h (See Item 2)



- 1. Wall or Floor Assembly Min depth or thickness as required for grade of fire separation but not less than 114 mm. Normal-density  $(2400\pm50 \text{ kg/m}^3)$  or low-density  $(1760\pm50 \text{ kg/m}^3)$  concrete floor or wall. Wall can also be constructed of min 200 mm concrete block. Max size of opening 300 mm by 600 mm. For opening in concrete block wall, concrete or mortar shall be used to create a solid surround to the opening.
- 2. **Pipes, Cables and Cable Tray —** All penetrating items to be reliably supported.
  - (a) Max size 90 mm by 450 mm steel ladder cable tray spaced min 50 mm from perimeter of opening. Max cable and conduit loading not to exceed 50% by area of cable tray and made up of the following groupings:
    - (i) A max of 10 (ten) 500 MCM COREFLEX II RA90 (XLPE) FT4 cable (or smaller).
    - (ii) Individual or bundles of a max of 7 (seven) 24 AWG, 100 pair telephone CSA Type IWC cables; max OD of 18 mm. A 13 mm min space between bundles or other penetrating items.
    - (iii) Individual or bundles of a max of 7 (seven) CAROL C1160 RG 11/U coaxial cables; max 10.3 mm OD. A 13 mm space between cables,

bundles, or other penetrating items.

- (iv) Max of one 55 mm OD (or smaller), 1.75 mm min wall thickness steel conduit.
- (b) Max of one nom 105 mm OD (or smaller) copper or steel pipe with min 2.39 mm wall thickness spaced 25 mm min from edge of opening and 50 mm min from other penetrating items.
- (c) Nom 80 mm OD (or smaller) copper or steel pipe, or steel conduit, with min 1.38 mm wall thickness insulated with Pipe Insulation (Item 3) and spaced 50 mm from edge of opening and other penetrating items.

Type of Penetrating Item	FH	Ratings h FT and FTH
Cables (Item 2a(i))	1-1/2	0
(Item 2a(ii))	1-1/2	0
Item 2a(iii))	1-1/2	1
Pipe Item 2a(iv))	1-1/2	0
(Item 2b)	0	0
(Item 2c)	1-1/2	0

- 3. **Pipe Insulation** Copper or steel pipe (Item 2c) to be wrapped with min 25 mm thick ULC labelled pipe insulation; min density 56 kg/m<sup>3</sup>. No pipe insulation joints to be closer than 300 mm to floor or wall surface.
- 4. Firestop System Components (XHJZC).
  - (a) Type "A/D FIREBARRIER Mineral Wool" insulation to be compressed 33% (min) between pipes and edge of opening. Min depth of 100 mm. Min 6.4 mm deep space to be left above mineral wool for sealant (Item 4b).
  - (b) Type "A/D FIREBARRIER Silicone Sealant" applied over mineral wool (Item 4a) to a min depth of 6.4 mm on both sides of the assembly.

## A/D FIRE PROTECTION SYSTEMS INC

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