



XHEZC.SP196 Firestop Systems

[Page Bottom](#)

Firestop Systems

[See General Information for Firestop Systems](#)

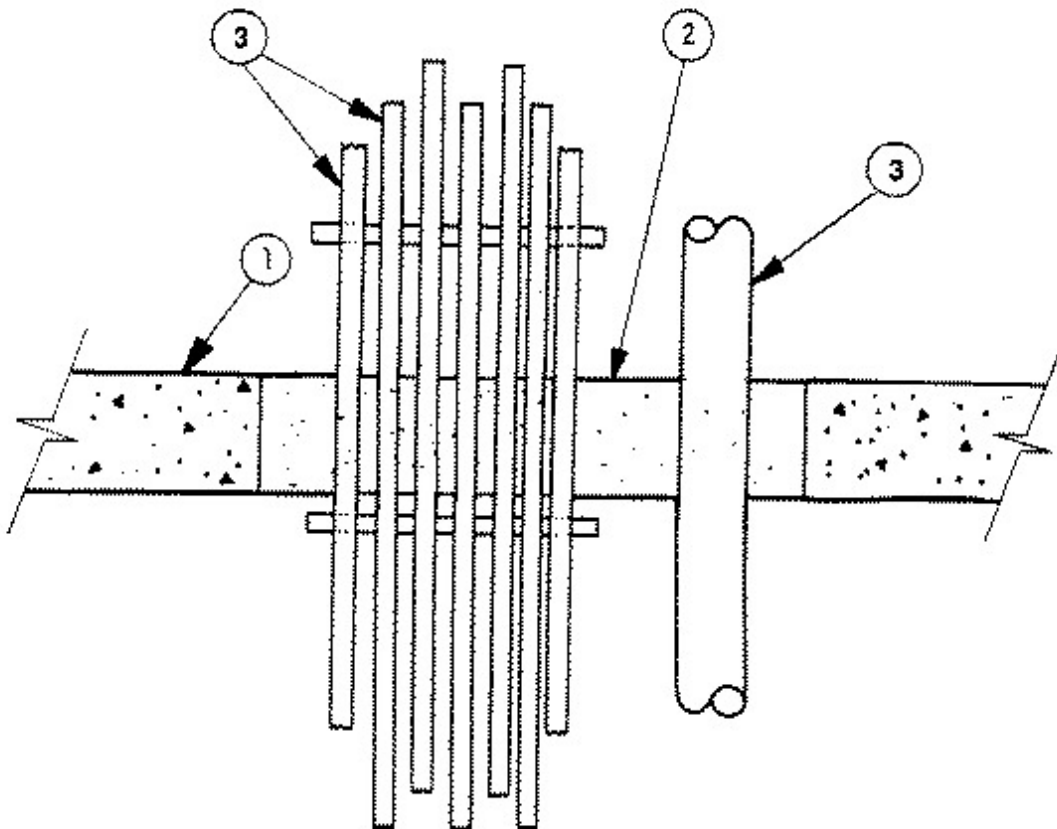
System No. SP196

December 16, 2004

(For Horizontal or Vertical Separations)

F and FH Ratings - 3 h

FT and FTH Ratings - 0 & 3 h (See Item 3)



1. **Floor or Wall Assembly** — Minimum depth as necessary for required grade of fire separation and required depth for the installation of firestop system components in Item 2. Normal-density ($2400 \pm 50 \text{ kg/m}^2$) or low-density ($1760 \pm 50 \text{ kg/m}^2$) concrete. Maximum size of opening 1460 mm by 1525 mm.

2. **Firestop System Components** — XHJZC (XHJZC). Type "A/D FIREBARRIER Mortar" and "A/D FIREBARRIER Mineral Wool" installed as follows:

FOR HORIZONTAL INSTALLATIONS

(a). Minimum 75 mm thick concrete. "A/D FIREBARRIER Mortar" mixed with water in accordance with the manufacturer's instructions and trowelled in place to a minimum depth of 75 mm.

or

(b). Minimum 175 mm thick concrete. "A/D FIREBARRIER Mortar" installed to a minimum depth of 75 mm and flush with the bottom of the floor slab. Maximum 50 mm thick, ULC listed, polyurethane foam having a flame spread of 25 or less installed on top of mortar. "A/D FIREBARRIER Mineral Wool" insulation compressed 33% minimum and installed on top of polyurethane foam to a minimum depth of 50 mm.

or

(c). Minimum 175 mm thick concrete. "A/D FIREBARRIER Mineral Wool" insulation, compressed 33% minimum and installed flush with the bottom of the slab to a depth of 50 mm. Maximum 50 mm thick polyurethane foam installed on top of FIREBARRIER mineral wool insulation. "A/D FIREBARRIER Mortar" installed to a minimum depth of 75 mm flush with the top of the floor slab.

FOR VERTICAL INSTALLATIONS

(d). Minimum 75 mm thick concrete wall. "A/D FIREBARRIER Mortar" mixed with water in accordance with manufacturer's instructions and trowelled in place to a minimum depth of 75 mm.

or

(e). Minimum 200 mm thick concrete or concrete block wall. "A/D FIREBARRIER Mortar" installed to a minimum depth of 75 mm on each side of the wall and flush with the wall faces. Maximum 50 mm thick, polyurethane foam installed between the layers of mortar.

A/D FIRE PROTECTION SYSTEMS INC

3. **Pipes, Cables and Cable Trays** — All penetrating items to be reliably supported above through-openings.

(a). Nominal 90 mm by 620 mm steel ladder type cable tray. Maximum cable and conduit loading 32% by area of cable tray.

(b). Type "500 MCM COREFLEX II RA90XLPE", or #6 AWG/4 90XLPE TECH HL FT4 cables installed individually, or 13 mm apart in cable tray.

(c). Steel conduit 50 mm OD, and 5.0 mm wall thickness individually, or spaced 50 mm from cables (Item 3b) in cable tray.

(d). Schedule 40 steel pipe, nominal 90 mm OD, or 82 mm OD copper pipe, or 90 mm OD (maximum) cast or ductile iron pipe, or 82 mm OD steel conduit.

Type of Penetrating Item	FT and FTH Ratings, h
Items 3a, 3b, 3c, 3d	0
No penetrating item	3

4. **Temporary Form** — (not shown) - As required during placement of mortar (Item 2). Combustible forms, if left in place, will not detract from assigned ratings.

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