



XHEZC.SP422 Firestop Systems

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Firestop Systems

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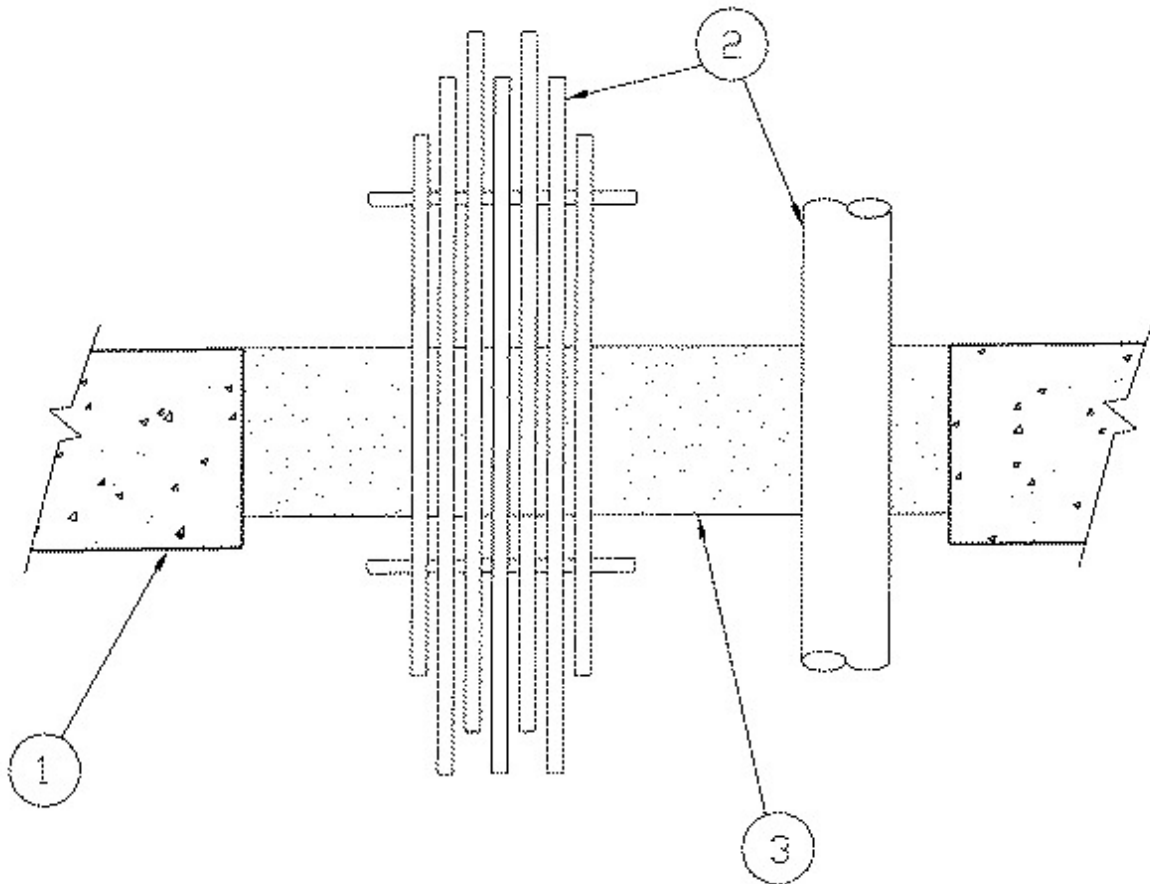
System No. SP422

October 04, 2005

(For Horizontal Separation)

F Ratings - 2 h

FT, FH and FTH Ratings - 0 h



1. **Floor Assembly** — Min depth or thickness as necessary for required grade of fire separation but not less than 114 mm normal-density ($2400 \pm 50 \text{ kg/m}^2$) concrete. Min 204 mm thick hollow precast concrete floor having a fire resistance rating equal to or exceeding that of the system. Max size of opening 300 mm by 600 mm.

2. **Pipes, Cables and Cable Tray** — All penetrating items to be rigidly supported. The following types and sizes of pipes, cables and cable tray can be installed:

(a) Max size 90 mm by 450 mm steel ladder cable tray spaced min 300 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; min space of 13 mm between cable bundle and other penetrating items.

(iii) Individual or bundles of a max of 7 (seven) CAROL C1160 RG 11/U coaxial cables, max OD or 10.3 mm; min space of 13 mm between cable bundle and other penetrating items.

(iv) A max of one 55 mm OD 9 (or smaller), 1.75 mm min wall thickness, steel conduit.

Nom 105 mm OD (or smaller), copper or steel pipe, or steel conduit, with 2.5 mm wall thickness spaced 25 mm from edge or opening and 50 mm min from other penetrating items.

A max of one nom 55 mm OD (or smaller), steel conduit with min 1.75 wall thickness centred in an opening (re-penetration only) within the mortar compound (Item 3a). Size of opening to be such that an annular space around penetrating item is 6.4 mm. Opening to be min 50 mm from other penetrating items.

■ **3. Firestop System Components — (XHJZC).**

(a) Type "A/D FIREBARRIER Mortar" compound prepared by mixing mortar powder with water at a ratio of 1 bag (7 kg) of powder to 2.5 kg of water in accordance with the manufacturer's instructions. The mortar compound is trowelled into the opening to a min thickness of 114 mm flush with top surface of floor assembly.

(b) Type "A/D FIREBARRIER Mineral Wool" to be compressed 33% min between pipe (Item 2c) and edge of opening within mortar to a min depth of 100 mm. Min 6.4 mm space to be left above mineral wool for sealant (Item 3c).

(c) Type "A/D FIREBARRIER Silicone Sealant caulk" or "A/D FIREBARRIER Silicone Sealant SL" applied to a min depth of 6.4 mm on top of mineral wool insulation (Item 3b) flush with the top surface of floor assembly.

A/D FIRE PROTECTION SYSTEMS INC

4. Forming Material (not shown) — Installed to prevent leakage of mortar compound while in liquid state. If left in place, will not affect assigned ratings.

Last Updated on 2005-10-04

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