XHEZC.SP394
Firestop Systems

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See General Information for Firestop Systems

System No. SP394

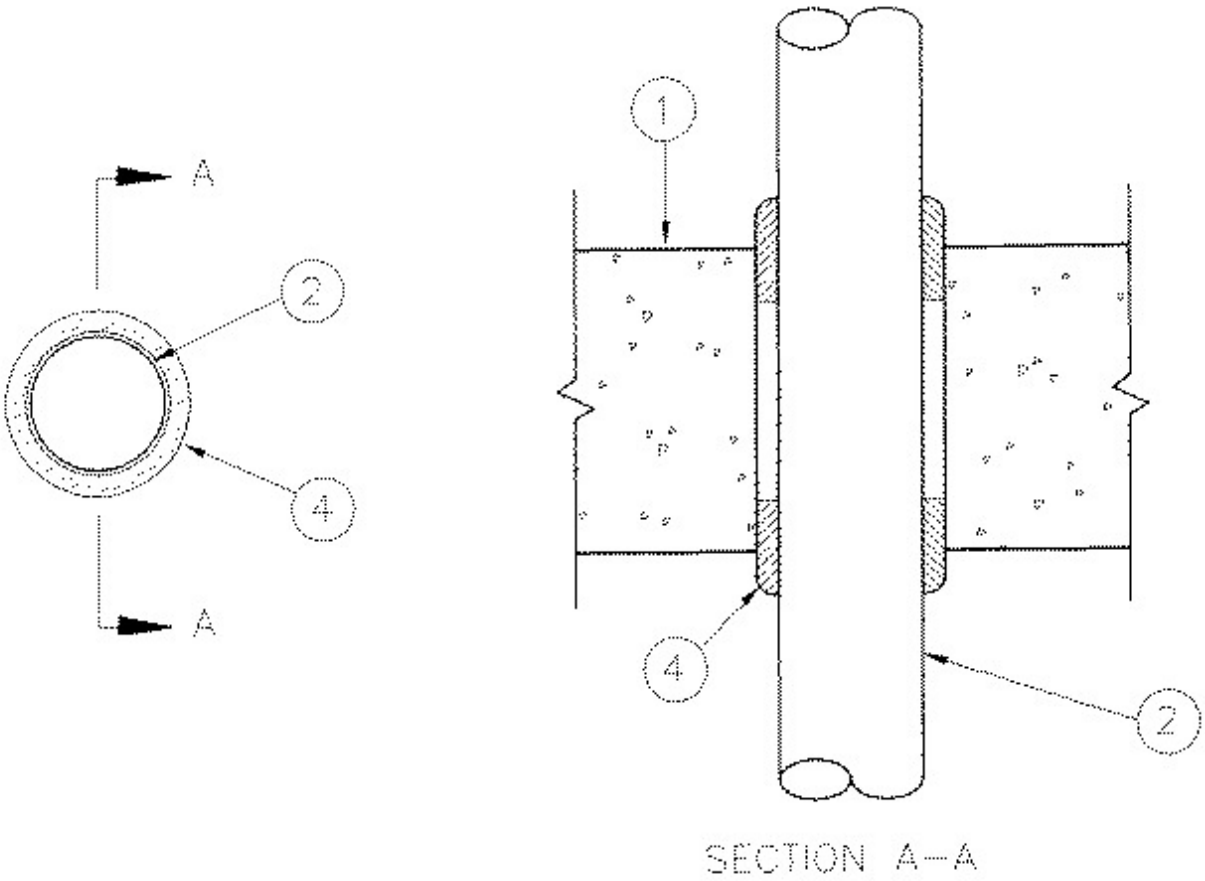
January 13, 2004

(For Horizontal or Vertical Separations)

F Ratings - 2 h

FH Ratings - 0 & 2 h (See Item 2)

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



SECTION A–A

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±50 kg/m^3) or low-density (1760±50 kg/m^3) concrete floor or wall. Floor may also be constructed of min 152 mm thick hollow-core precast concrete units having a fire resistance rating equal to or greater than that of the firestop system. Wall can also be constructed of min 200 mm concrete block. Max size of opening to be 13 mm larger than OD of penetrating pipe. When precast concrete units are used, max diam of opening is 178 mm. For opening in concrete block wall, concrete or mortar shall be used to create a solid surround to the opening.

2. **Pipes and Cables —** All pipes and cables rigidly supported and centered in the opening so as to maintain a 6.4 mm max annular space between the edges of each opening and penetrating item.

(a) Nom 30 mm OD (max) steel conduit with min 1.5 mm wall thickness.

(b) Nom 275 mm OD (max) Schedule 40 steel pipe.

(c) Nom 120 mm OD (max) Schedule 40 steel pipe.

(d) Nom 105 mm OD (max) copper pipe with min 2.5 mm wall thickness.

(e) Nom 114 mm OD (max) galvanized steel conduit with min 2.4 mm wall thickness.

(f) Nom 80 mm OD (max) copper or steel pipe min 178 mm wall thickness, insulated with Pipe Insulation (Item 3).

(g) One 500 MCM (or smaller) COREFLEX II RA90 (XLPE) FT4 cable.

(h) One 24 AWG 100 pair (or smaller) CSA IWC FT4, 18 mm OD telephone cable.

(i) One CAROL C1160 RG 11/U Type USA, 10.3 mm OD (or smaller) coaxial cable.

Type of Penetrating Item	Item	Ratings h FT and FTH
Steel conduit (Item 2a)	2	1-1/2
Coaxial cable (Item 2i)	2	2
Insulated pipe (Item 2f)	2	0
500 MCM cable (Item 2g)	2	0
24 AWG cable (Item 2h)	2	0
Other penetrating items	0	0

3. **Pipe Insulation (not shown) —** Copper or steel pipe (Item 2f) to be wrapped with min 25 mm thick ULC labelled pipe insulation; min density 56 kg/m^3. No pipe insulation joints to be closer than 300 mm to floor or wall surface.

- 4. **Firestop System Components —** (XHJZC). "A/D Firebarrier Silicone sealant" caulked into the annular space to a min depth of 25 mm on both sides of assembly. Additional sealant applied such that a min 6.4 mm crown is formed around the circumference of the penetrating item.

A/D FIRE PROTECTION SYSTEMS INC

Last Updated on 2004-01-13