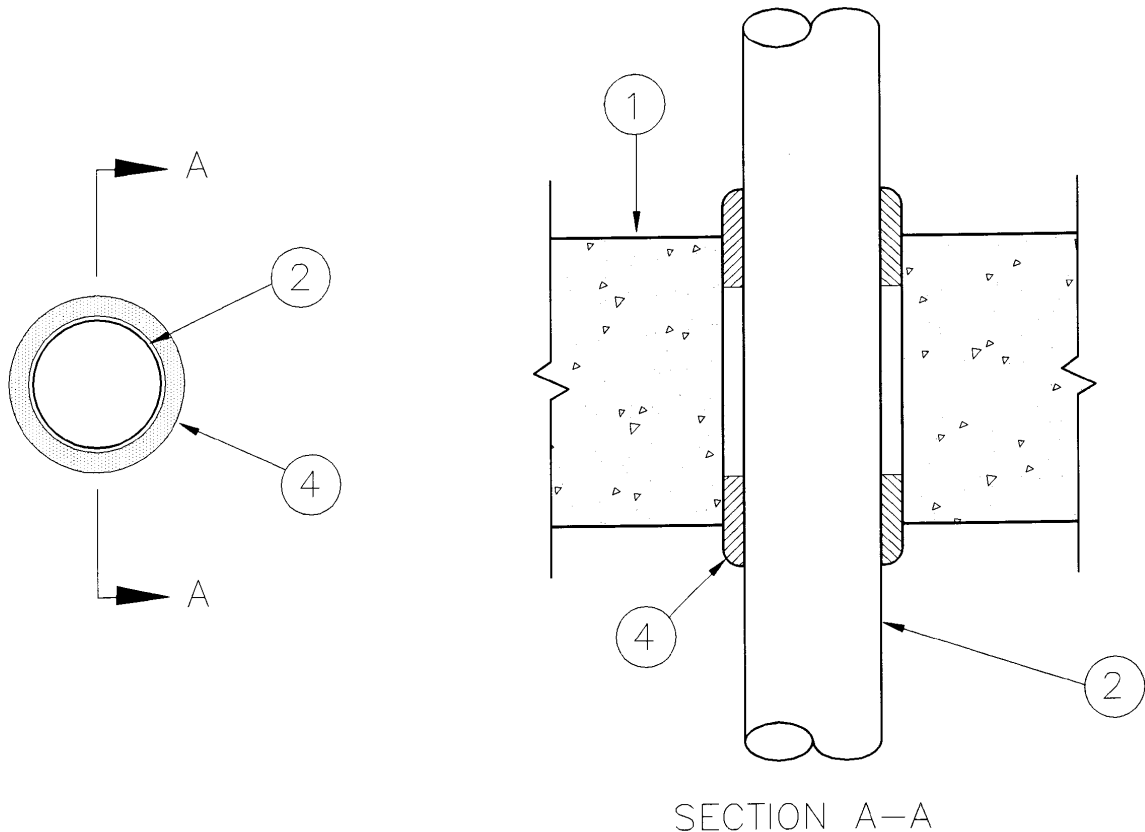


**SYSTEM No. SP394**  
**(For Horizontal or Vertical Separations)**

**F Rating** – 2 h  
**FH Rating** – 0 & 2 h (See Item 2)  
**FT and FTH Ratings** – 0, 1-1/2 & 2 h (See Item 2)



**1. Wall or Floor Assembly** – Minimum depth or thickness as required for grade of fire separation but not less than 114 mm. Normal-density ( $2400 \pm 50 \text{ kg/m}^3$ ) or low-density ( $1760 \pm 50 \text{ kg/m}^3$ ) concrete floor or wall. Wall can also be constructed of minimum 200 mm concrete block. Maximum size of opening to be 13 mm larger than OD of penetrating pipe. 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 centred in the opening so as to maintain a 6.4 mm maximum annular space between the edges of each opening and penetrating item.

- (a) Nominal 30 mm OD (maximum) steel conduit with minimum 1.5 mm wall thickness.
- (b) Nominal 275 mm OD (maximum) Schedule 40 steel pipe.
- (c) Nominal 120 mm OD (maximum) Schedule 40 steel pipe.
- (d) Nominal 105 mm OD (maximum) copper pipe with minimum 2.5 mm wall thickness.
- (e) Nominal 114 mm OD (maximum) galvanized steel conduit with minimum 2.4 mm wall thickness.
- (f) Nominal 80 mm OD (maximum) copper or steel pipe minimum 178 mm wall thickness, insulated with Pipe Insulation (Item 3).

SP394 continued...

- (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	Ratings, h	
	FH	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 minimum 25 mm thick ULC labelled pipe insulation; minimum 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** – (Guide No. 40 U19.13). "A/D FIREBARRIER Silicone sealant" caulked into the annular space to a minimum depth of 25 mm on both sides of assembly. Additional sealant applied such that a minimum 6.4 mm crown is formed around the circumference of the penetrating item.

A/D FIRE PROTECTION SYSTEM INC.