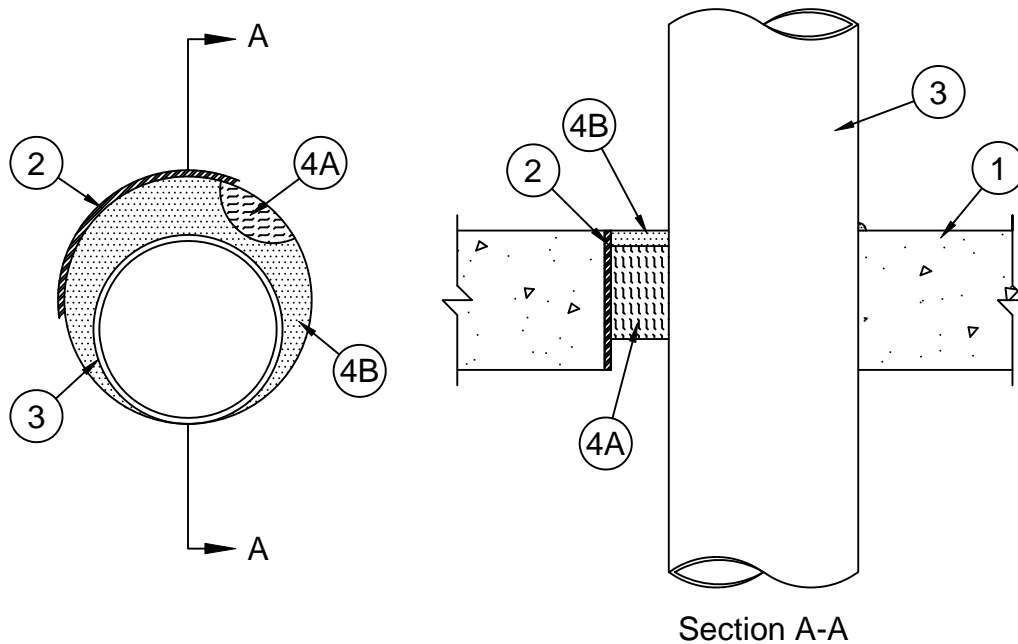


System No. C-AJ-1017

F Rating - 3 Hr
FT Rating - 0 Hr
FH Rating - 3 Hr
FTH Rating - 0 Hr



1. **Floor or Wall Assembly** - Lightweight or normal weight (1600-2400 kg/m³ or 100-150 pcf) concrete floor or wall. Min thickness of concrete is shown in table in Item 4B. Floor may also be constructed of any min 152 mm (6 in.) thick hollow-core **Precast Concrete Units***. Wall may also be constructed of any UL Classified **Concrete Blocks***. Max diam of opening is 356 mm (14 in.). Max diam of opening in floors constructed of hollow-core is 178 mm (7 in.).

See **Concrete Blocks** (CAZT) or **Precast Concrete Units** (CFTV) categories in the Fire Resistance Directory for names of manufacturers.

2. **Steel Sleeve** - (Optional) - Nom 356 mm (14 in.) diam (or smaller) Schedule 10 (or heavier) steel pipe cast or grouted into floor or wall assembly. Steel sleeve may be installed flush or may project a max 51 mm (2 in.) beyond the floor or wall surfaces. When steel sleeve is used, mineral wool packing material (Item 4A) is required to be used.
3. **Through Penetrant** - One metallic pipe, conduit or tube to be installed eccentrically or concentrically within the firestop system. The annular space between the pipe, conduit or tube and the periphery of the opening shall be min 0 mm (0 in. or point contact). The max annular space is 25 or 51 mm (1 or 2 in.) as shown in the table in Item 4B. Pipe, conduit or tube to be rigidly supported on both sides of the floor or wall assembly. The following types and sizes of metallic pipes, conduits and tubes may be used:
 - A. **Steel Pipe** - Nom 305 mm (12 in.) diam (or smaller) Schedule 5 (or heavier) steel pipe.
 - B. **Iron Pipe** - Nom 305 mm (12 in.) diam (or smaller) cast or ductile iron pipe.
 - C. **Conduit** - Nom 152 mm (6 in.) diam (or smaller) rigid steel conduit, nom 102 mm (4 in.) diam (or smaller) steel electrical metallic tubing (EMT) or nom 102 mm (4 in.) diam (or smaller) flexible steel conduit.
 - D. **Copper Pipe** - Nom 102 mm (4 in.) diam (or smaller) Regular (or heavier) copper pipe.
 - E. **Copper Tube** - Nom 102 mm (4 in.) diam (or smaller) Regular L (or heavier) copper tube.



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- 3A. **Through Penetrating Product* - Flexible Metal Piping** - As an alternate to Item 3, one nom 51 mm (2 in.) diam (or smaller) flexible steel pipe (with or without plastic jacketing) to be installed either concentrically or eccentrically within the firestop system. The annular space between the pipe, conduit or tube and the periphery of the opening shall be min 0 mm (0 in. or point contact). The max annular space is 25 or 51 mm (1 or 2 in.) as shown in the table in Item 4B. Pipe to be rigidly supported on both sides of the floor or wall assembly.

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4. **Firestop System** - The firestop system shall consist of the following:
- A. **Packing Material** - When required as shown in the table in Item 4B, min 64 kg/m³ (4 pcf) mineral wool batt insulation compressed and tightly packed to min 57 mm (2-1/4 in.) thickness. Packing material recessed from top surface of floor or both surfaces of wall as required to accommodate fill material (Item 4B). When packing material is shown as being optional, mineral wool or glass fiber insulation or polyethylene foam backer rod may be used as a permanent form to facilitate installation of the fill material. In floors constructed of hollow-core precast concrete units, packing material to be recessed from both top and bottom surfaces of floor, as required to accommodate fill material (Item 4B). When steel sleeve projects from top of floor or from both sides of wall, the thickness of mineral wool batt packing material should be increased by an amount equal to the distance that the sleeve extends past the floor or wall surface.
- B. **Fill, Void or Cavity Material* - Sealant** - Fill material applied within annulus, flush with top surface of floor assembly or top edge of steel sleeve. In walls and in floors constructed from hollow core precast concrete units, fill material applied symmetrically on both sides of assembly flush with wall/floor surfaces or both ends of steel sleeve. At point contact location, apply min 6 mm (1/4 in.) diam bead of fill material at pipe/concrete interface or pipe/steel sleeve interface on top surface of floor or both surfaces of wall or precast concrete units. The fill material thickness shall be as specified in the following table:

Min Concrete Thickness, in. (mm)	Steel Sleeve	Max Annular Space, in. (mm)	Packing Material	Min Fill Material Thickness, in. (mm)	F Rating
64 (2-1/2)	Optional	51 (2)	Required	6 (1/4)	3 hr
114 (4-1/2)	No	25 (1)	Optional	13 (1/2)	2 hr

SPECIFIED TECHNOLOGIES INC - SpecSeal LCI Sealant

*Bearing the UL Classification Mark



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