



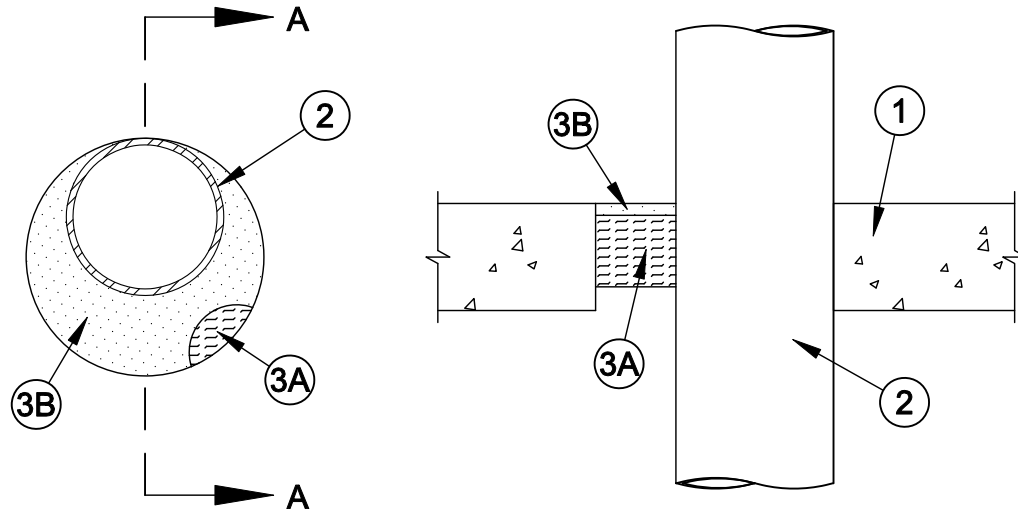
System No. C-AJ-1079

F Ratings - 3 and 4 Hr (See Item 3C)

T Ratings - 0, 1/4, 1/2 and 3/4 Hr (See Item 2)

L Rating At Ambient - Less Than 1 CFM/sq ft

L Rating At 400 F - Less Than 1 CFM/sq ft



Section A-A

- Floor or Wall Assembly** - Min 4-1/2 in. thick reinforced lightweight or normal weight (100-150 pcf) concrete. Floor may also be constructed of any min 6 in. thick UL Classified hollow-core **Precast Concrete Units***. Wall may also be constructed of any UL Classified **Concrete Blocks***. Max diam of opening is 28 in. Max diam of opening in floor constructed of hollow-core precast concrete units is 7 in.

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

- Through Penetrants** - One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. The annular space between the pipe, conduit or tubing and the periphery of the opening shall be min 0 in. (point contact) to a max 4 in. Pipe, conduit or tubing to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
 - Steel Pipe** - Nom 24 in diam (or smaller) Schedule 5 (or heavier) steel pipe.
 - Iron Pipe** - Nom 24 in. diam (or smaller) cast or ductile iron pipe.
 - Conduit** - Nom 4 in. diam (or smaller) electrical metallic tubing or nom 6 in. diam (or smaller) steel conduit or nom 1 in. diam (or smaller) flexible steel conduit.
 - Copper Tubing** - Nom 6 in. diam (or smaller) Type L (or heavier) copper tubing.
 - Copper Pipe** - Nom 6 in. diam (or smaller) Regular or heavier copper pipe.

Type of Metallic Penetrant	Max Diam of Metallic Penetrant in.	T Rating Hr
Steel or Iron Pipe, Conduit	24	0
Copper Pipe or Tube	6	0
Steel or Iron Pipe, Conduit or EMT	4	1/4
Steel or Iron Pipe, Conduit or EMT	2	1/2
Steel or Iron Pipe, Conduit or EMT	1	3/4



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3. **Firestop System** - The firestop system shall consist of the following:

A. **Packing Material** - Min 4 pcf mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor or from both surfaces of wall as required to accommodate the required thickness of fill material. When floor is constructed of hollow-core precast concrete units, packing material is to be recessed from both surfaces of floor to accommodate the required thickness of fill material.

The thickness of the packing material is dependent upon the type and diam of the through penetrant (Item 2) as tabulated below:

Thought Penetrant	Max Through-Penetrant Diam In.	Min Mineral Wool Insulation Thkns In.
Steel Pipe, Conduit Or Iron Pipe	6	1-1/2++
Steel Pipe, Conduit Or Iron Pipe	24	3
Copper Tube Or Copper Pipe	6	3

++When annular space exceeds 2 in., packing material thickness to be min 3 in.

B. **Fill, Void or Cavity Material* - Caulk** - Min 1/2 in. thickness of fill material applied within the annulus, flush with top surface of floor or with both surfaces of wall. When floor is constructed of hollow-core precast concrete units, fill material is to be installed symmetrically on both sides of floor, flush with floor surfaces. At the point contact location between penetrating item and concrete, a min 3/8 in. thick bead of fill material shall be applied at the concrete penetrating item interface on top surface of floor and both surfaces of wall or hollow-core precast concrete floor.

SPECIFIED TECHNOLOGIES INC - SpecSeal Series SSS Sealant or SpecSeal LCI Sealant

C. **Steel Cover Plate** - (Not Shown) - Min 0.014 in. (No. 28 gauge) galv steel cut to fit the contour of the through-penetrant (Item 2) with a min 2 in. lap on the top surface of floor and both surfaces of wall assembly around the perimeter of the through-opening. Seams of steel cover plate shall overlap a min 1/2 in. Steel cover plate secured to top surface of floor and both surfaces of wall assembly by means of 1/4 in. diam by 1-3/4 in. long steel concrete anchors in conjunction with 1/4 in. by 1-1/4 in. diam steel fender washers spaced a max 6 in. OC.

The hourly F Rating of the firestop system is dependent upon the use of the steel cover plate. If the steel cover plate is used, the F Rating of the firestop system is 4 hr. If the steel cover plate is omitted, the F Rating of the firestop system is 3 hr.

*Bearing the UL Classification Mark



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PAGE 2 OF 2