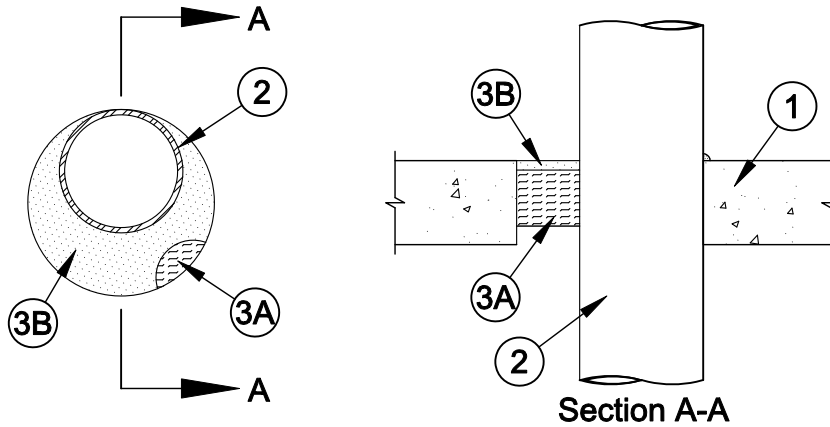


System No. C-AJ-1213



F Ratings - 3 and 4 Hr (See Item 3C)
 T Rating - 0 Hr
 L Rating At Ambient - Less Than 1 CFM/sq ft
 L Rating At 400 F - Less Than 1 CFM/sq ft



1. **Floor or Wall Assembly** - Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete. Floor may also be constructed of any min 6 in. (152 mm) 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. (711 mm). Max diam of opening in floor constructed of hollow-core precast concrete units is 7 in. (178 mm).
 See **Concrete Blocks** (CAZT) and **Precast Concrete Units** (CFTV) categories in the Fire Resistance Directory for names of manufacturers.
2. **Through Penetrant** - One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. The annular space between pipe, conduit or tubing and periphery of opening shall be min 0 in. (point contact) to max 4 in. (102 mm). Pipe, conduit or tubing to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic pipe, conduit or tubing may be used:
 - A. **Steel Pipe** - Nom 24 in. (610 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
 - B. **Iron Pipe** - Nom 24 in. (610 mm) diam (or smaller) cast or ductile iron pipe.
 - C. **Conduit** - Nom 4 in. (102 mm) diam (or smaller) electrical metallic tubing, nom 6 in. (152 mm) diam (or smaller) steel conduit or nom 1 in. (25 mm) diam (or smaller) flexible steel conduit.
 - D. **Copper Tubing** - Nom 4 in. (102 mm) diam (or smaller) Type L (or heavier) copper tubing.
 - E. **Copper Pipe** - Nom 4 in. (102 mm) diam (or smaller) Regular (or heavier) copper pipe.
3. **Firestop System** - The Firestop system shall consist of the following:
 - A. **Packing Material** - Min 3 in. 976 mm) thickness of min 4 pcf (64 kg/m³) 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.

FOR CANADIAN APPLICATIONS:
 When evaluated in accordance with ULC-S115, this system has the following ratings:

System No.	Rating Hr.			
	F	FT	FH	FTH
C-AJ-1213	3 & 4	0	3 & 4	0

For more information, please see the XHHW7.R14288 section in the UL Fire Resistance Directory entitled Fill, Void or Cavity Materials Certified for Canada.



Specified Technologies Inc. 210 Evans Way Somerville, NJ 08876

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B. **Fill, Void or Cavity Material* - Caulk** - Min 1/2 in. (13 mm) 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 pipe and concrete, a min 3/8 in. (10 mm) diam bead of fill material shall be applied at the concrete/pipe interface on the top surface of floor and on both surfaces of wall or hollow-core precast concrete floor.

SPECIFIED TECHNOLOGIES INC - SpecSeal LC 150 Sealant, SpecSeal LE600 Sealant

C. **Steel Cover Plate** - (Not Shown) - Min 0.014 in. (0.4 mm) galv steel cut to fit the contour of the through-penetrant (Item 2) with a min 2 in. (51 mm) 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. (13 mm). Steel cover plate secured to top surface of floor and both surfaces of wall assembly by means of 1/4 in. (6 mm) diam by 1-3/4 in. (44 mm) long steel concrete anchors in conjunction with 1/4 in. (6 mm) by 1-1/4 in. (32 mm) diam steel fender washers spaced a max 6 in. (152 mm) 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

FOR CANADIAN APPLICATIONS:
When evaluated in accordance with ULC-S115, this system has the following ratings:

System No.	Rating Hr.			
	F	FT	FH	FTH
C-AJ-1213	3 & 4	0	3 & 4	0

For more information, please see the XHHW7.R14288 section in the UL Fire Resistance Directory entitled Fill, Void or Cavity Materials Certified for Canada.



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