

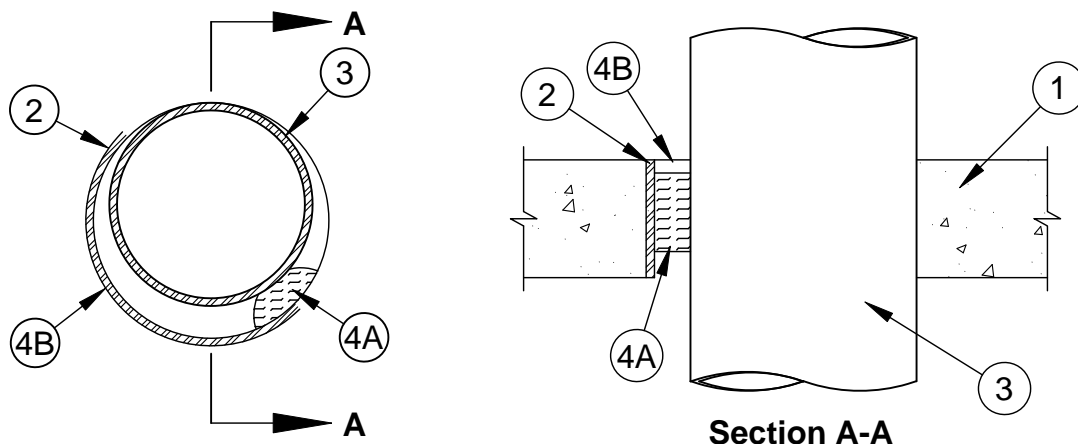
System No. C-AJ-1215

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

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. Wall may also be constructed of any UL Classified **Concrete Blocks***. Max diam of opening is 32 in. (813 mm).
See **Concrete Blocks (CAZT)** category in the Fire Resistance Directory for names of manufacturers.
2. **Metallic Sleeve** - (Optional) Nom 32 in. (813 mm) diam (or smaller) Schedule 10 (or heavier) steel sleeve cast or grouted into floor or wall assembly. Steel sleeve may be installed flush or may project a max of 3 in. (76 mm) beyond the floor or wall surfaces.
3. **Through Penetrant** - One metallic pipe or conduit to be installed either concentrically or eccentrically within the firestop system. The annular space between pipe or conduit and periphery of opening shall be min 0 in. (point contact) to max 2 in. (51 mm). Pipe, conduit or tubing to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic pipes or conduits may be used:
 - A. **Steel Pipe** - Nom 30 in. (762 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
 - B. **Iron Pipe** - Nom 30 in. (762 mm) diam (or smaller) cast or ductile iron pipe.
 - C. **Conduit** - Nom 4 in. (102 mm) diam (or smaller) steel 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 Pipe or Tubing** - Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe or nom 6 in. diam (or smaller) Type M (or heavier) copper tubing.
4. **Firestop System** - The Firestop system shall consist of the following:
 - A. **Packing Material** - Min 3 in. (76 mm) thickness of min 4 pcf (64 kg/m³) mineral wool batt insulation firmly packed into opening as a permanent form. In floors, packing material to be recessed from top surface of floor or from top edge of steel sleeve as required to accommodate the required thickness of fill material. In walls, packing material to be recessed from both surfaces of wall or from both ends of steel sleeve as required to accommodate the required thickness of fill material.
 - B. **Fill, Void or Cavity Material* - Sealant** - Min 1/2 in. (13 mm) thickness of fill material applied within the annulus. In floors, fill material to be applied flush with top surface of floor or top edge of steel sleeve. In walls, fill material to be applied flush with both surfaces of wall or both ends of steel sleeve. 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.
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 3) 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 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 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-1215	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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