



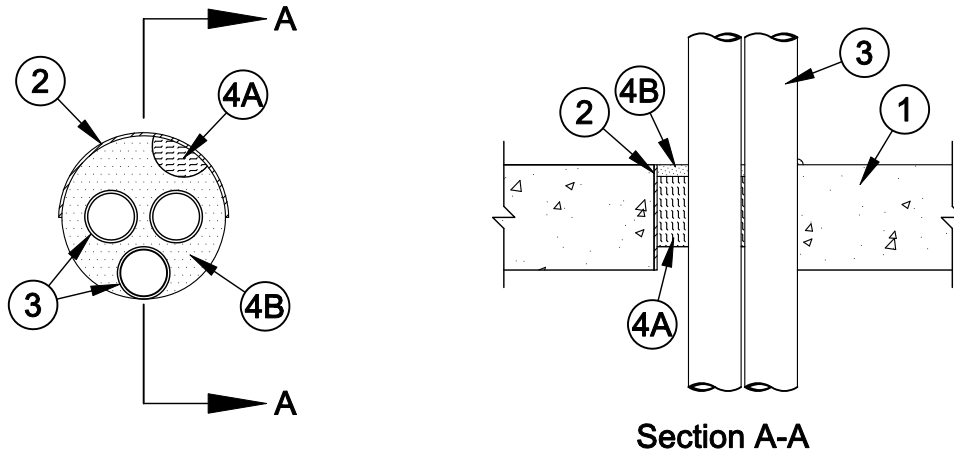
System No. C-AJ-1354

F Rating - 2 Hr

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 2-1/2 in. thick reinforced lightweight or normal weight (100-150 pcf) concrete floor. Floor may also be constructed of any min 6 in. thick hollow-core **Precast Concrete Units***. Wall may also be constructed of any UL Classified **Concrete Blocks***. Max diam of opening is 6 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 6 in. diam (or smaller) Schedule 10 (or heavier) steel pipe or No. 26 ga (0.022 in. or 0.56 mm thick) sheet steel sleeve with square anchor flange spot welded to the sleeve at approx mid-height. Sleeve cast or grouted in place flush with floor or wall surfaces. Steel pipe sleeve may project a max of 2 in. (51 mm) beyond the floor or wall surfaces.
3. **Through Penetrant** - One or more metallic pipes, conduits or tubes to be installed eccentrically or concentrically within the firestop system. The space between the pipes, conduits or tubes shall be min 1/4 in. to max 2 in. The annular space between the pipes, conduits or tubing and the periphery of the opening shall be min 0 in. (point contact) to max 2 in. Pipes, conduits or tubes 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 2 in. diam (or smaller) Schedule 5 (or heavier) steel pipe.
 - B. **Iron Pipe** - Nom 2 in. diam (or smaller) cast or ductile iron pipe.
 - C. **Conduit** - Nom 2 in. diam (or smaller) rigid steel conduit, steel electrical metallic tubing (EMT) or flexible aluminum or steel conduit.
 - D. **Copper Pipe** - Nom 2 in. diam (or smaller) Regular (or heavier) copper pipe.
 - E. **Copper Tube** - Nom 2 in. diam (or smaller) Regular L (or heavier) copper tube.

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-1354	2	0	2	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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3A. **Through Penetrating Product* - Flexible Metal Piping** - As an alternate to Item 3, one or more nom 2 in. diam (or smaller) steel flexible metal pipes to be installed either concentrically or eccentrically within the firestop system. The space between the pipes shall be min 1/4 in. to max 2 in. The annular space between the pipes and the periphery of the opening shall be min 0 in. (point contact) to max 2 in. Pipes 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** - Min 4 pcf mineral wool batt insulation compressed and tightly packed to min 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). 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** - Min 1/4 in. thickness of fill material applied within annulus, flush with top surface of floor assembly or top edge of steel sleeve. In walls, min 1/4 in. thickness of fill material applied flush with both surfaces of wall assembly or both ends of steel sleeve. In floors constructed of hollow-core precast concrete units, fill material installed symmetrically on both surfaces of floor. At point contact location, apply min 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.

SPECIFIED TECHNOLOGIES INC - SpecSeal LCI Sealant or SpecSeal SSS Sealant

*Bearing the UL Classification Mark

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System No.	Rating Hr.			
	F	FT	FH	FTH
C-AJ-1354	2	0	2	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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