



System No. C-AJ-1562

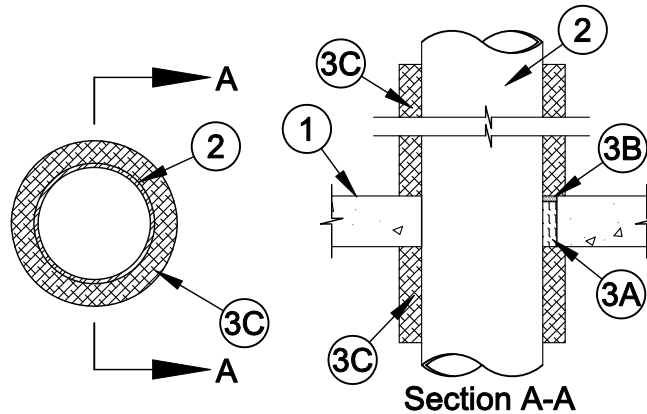
F Rating - 3 Hr

T Rating - 3 Hr

L Rating at Ambient - 1 CFM/sq ft

L Rating at 400°F - Less than 1 CFM/sq ft

W Rating - Class 1 (See Item 3B)



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***. Floor may also be constructed of any UL Classified **Precast Concrete Units***. Max diam of opening 12 in. (305 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 Fire Resistance Directory for names of manufacturers.
2. **Through-Penetrant** - One metallic pipe, conduit or tubing installed concentrically or eccentrically within opening. Annular space between penetrant and periphery of opening shall be min 0 in. (0 mm, point contact) to max 2 in. (51 mm). Penetrant to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of penetrants may be used:
 - A. **Steel Pipe** - Nom 10 in. (254 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
 - B. **Iron Pipe** - Nom 10 in. (254 mm) diam (or smaller) cast or ductile iron pipe.
 - C. **Copper Tubing** - Nom 4 in. (102 mm) diam (or smaller) Type L (or heavier) copper tubing.
 - D. **Copper Pipe** - Nom 4 in. (102 mm) diam (or smaller) Regular (or heavier) copper pipe.
 - E. **Conduit** - Nom 6 in. (152 mm) diam (or smaller) steel conduit, nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing (EMT), or nom 1 in. (25 mm) diam (or smaller) flexible steel conduit.
3. **Firestop System** - The details of the firestop system shall be as follows:
 - A. **Packing Material** - Min 4 in. (102 mm) thickness of min 4 pcf (64 kg/m³) mineral wool batt insulation firmly packed into opening as a permanent form. In floors constructed of precast concrete units, packing material to be flush with bottom of floor. Packing material to be recessed from top surface of floor or from both surfaces of wall 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-1562	3	3	3	3

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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Created or Revised: October 09,2009

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B. **Fill, Void or Cavity Materials* - Sealant or Putty** - Min 1/2 in. (13 mm) thickness of sealant or putty applied within the annulus, flush with top surface of floor or with both surfaces of wall. At point contact, apply min 1/4 in. (6 mm) bead at penetrant/concrete interface on top surface of floor or both surfaces of wall.

SPECIFIED TECHNOLOGIES INC - SpecSeal Series SSS Sealant, SpecSeal LCI Sealant, SpecSeal Putty, Pensil 300 Sealant, or SpecSeal Series SIL300 Sealant for floors or walls, and Pensil 300 SL Sealant or SpecSeal Series SIL300SL Sealant for floors only.

W Rating applies only when Pensil 300, Pensil 300 SL, SpecSeal Series SIL300 or SpecSeal Series SIL300 SL Sealants are used with solid penetrant (not flexible steel conduit).

C. **Duct Wrap Material*** - Nom 2 in. (51 mm) thick duct wrap tightly wrapped around penetrant to extend 12 in. (305 mm) below floor and 36 in. (914 mm) above floor or 36 in. (914 mm) beyond both surfaces of wall. Longitudinal seams sealed with foil tape. Duct wrap secured with No. 16 AWG steel tie wire spaced 2 in. from each end of duct wrap section. Steel tie wire not required on top surface of floor.

THERMAL CERAMICS INC - FireMaster® Duct Wrap 2x2, FireMaster Duct Wrap 2x2+, FireMaster FastWrap XL, or Pyroscat Duct Wrap XL.

*Bearing the UL Classification Mark

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