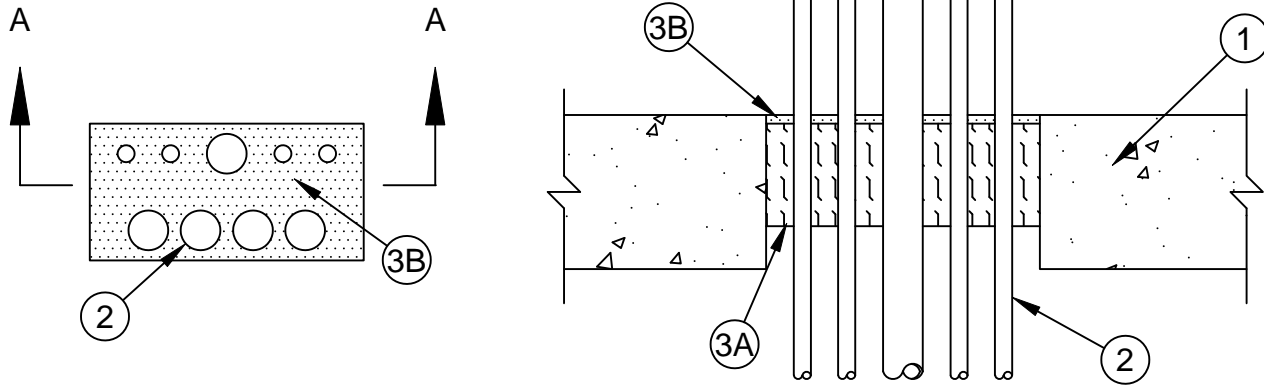




System No. C-AJ-1576

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
 W Rating - Class 1 (See Item 4)



Section A-A

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 assembly 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 area of opening is 32 sq in. (206 cm²) with a max dimension of 8 in. (203 mm).

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

- 1A. **Steel Sleeve** - (Optional, Not Shown) - Nom 4 by 8 in. (102 mm by 203 mm) or smaller No. 28 ga (or heavier) steel sleeve cast or grouted into floor or wall assembly.
2. **Through-Penetrant** - One or more metallic pipes, conduits, tubes or flexible metal pipes installed concentrically or eccentrically within opening. Annular space between penetrants and periphery of opening shall be min 1/4 in. (6 mm) to max 2 in. (51 mm). Space between penetrants shall be min 1/4 in. (6 mm) to max 1 in. (25 mm). Penetrants 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 3 in. (76 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
 - B. **Iron Pipe** - Nom 3 in. (76 mm) diam (or smaller) cast or ductile iron pipe.
 - C. **Conduit** - Nom 3 in. diam (76 mm) (or smaller) steel conduit or nom 2 in. (102 mm) diam (or smaller) steel electrical metallic tubing.
 - D. **Copper Tubing** - Nom 1 in. (25 mm) diam (or smaller) Type L (or heavier) copper tubing.
 - E. **Copper Pipe** - Nom 1 in. (25 mm) diam (or smaller) Regular (or heavier) copper pipe.

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-1576	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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F. **Through Penetrating Product*** - Flexible Metal Piping - The following types of steel flexible metal gas piping may be used:

- a. Nom 2 in. (51 mm) diam (or smaller) steel flexible metal gas piping.

OMEGA FLEX INC

- b. Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping.

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WARD MFG L L C

3. **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. 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. In floors constructed of hollow-core concrete, packing material to be recessed from top and bottom surfaces of floor as required to accommodate the required thickness of fill material.

B. **Fill, Void or Cavity Materials* - Sealant** - Min 1/4 in. (6 mm) thickness of sealant applied within the annulus, flush with top surface of floor or with both surfaces of wall. In floors constructed of hollow-core concrete, min 1/4 in. (6 mm) thickness of sealant applied within the annulus, flush with top and bottom surfaces of floor. A min 1/16 in. (1.6 mm) thick film of sealant shall be applied to lap min 1/2 in. (13 mm) onto concrete around perimeter of opening.

SPECIFIED TECHNOLOGIES INC - Pensil 300 Sealant or SpecSeal Series SIL300 Sealant for floors and walls and Pensil 300 S/L Sealant or SpecSeal Series SIL300SL Sealant for floors only.

W Rating applies only when Pensil 300, SpecSeal Series SIL300, Pensil 300 S/L or SpecSeal Series SIL300SL Sealants are used.

*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-1576	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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