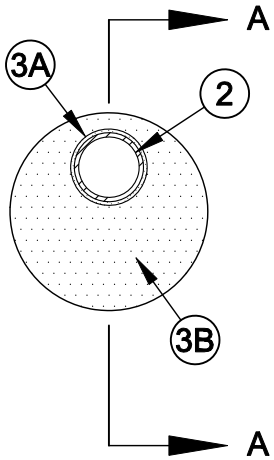
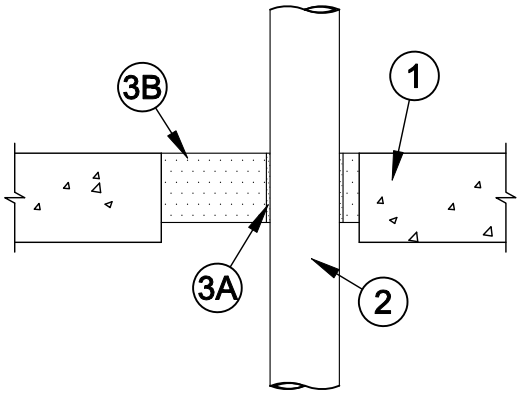
System No. C-AJ-1228

F Rating - 2 Hr
T Rating - 0 Hr





Section A-A

1. **Floor or Wall Assembly** Min 4-1/2 in. thick reinforced lightweight or normal weight (100-150 pcf) concrete. Wall may also be constructed of any UL Classified **Concrete Blocks*.** Max diam of opening is 10 in.

   See **Concrete Block** (CAZT) category in the Fire Resistance Directory for names of manufacturers.

2. **Through Penetrants** One metallic pipe or tubing to be installed either concentrically or eccentrically within the firestop system. The annular space between the pipe or conduit and the periphery of the opening shall be a min of 1 in. to a max 5-7/8 in. Pipe or tubing to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic pipes or tubing may be used:

   A. **Steel Pipe** Nom 3 in. diam (or smaller) Schedule 10 (or heavier) steel pipe.

   B. **Iron Pipe** Nom 3 in. diam (or smaller) cast or ductile iron pipe.

   C. **Copper Tubing** Nom 3 in. diam (or smaller) Type L (or heavier) copper tubing.

   D. **Copper Pipe** Nom 3 in. diam (or smaller) Regular (or heavier) copper pipe.

3. **Firestop System** The firestop system shall consist of the following:

   A. **Fill, Void or Cavity Material* - Putty Pad** Nom 3/16 in. thick by 3-1/2 in. wide moldable putty. A single layer of putty pad shall be wrapped around outer circumference of through penetrant with ends butted. In floors, the putty pad shall be recessed a min 1/2 in. from the bottom surface of the floor and flush with the bottom edge of mortar (Item 3C). In walls, the putty pad shall be recessed a min 1/2 in. from each surface of the wall and flush with each surface of mortar.

   SPECIFIED TECHNOLOGIES INC - SpecSeal Putty Pads

   B. **Forms** (Not Shown) - Used as a form to prevent the leakage of fill material during installation. Forms to be rigid sheet material, cut to fit the contour of the penetrating item and positioned on the bottom surface of the floor or both sides of the wall as required to accommodate the required thickness of fill material. Forms to be removed after fill material has cured.

   C. **Fill, Void or Cavity Material* - Mortar** Nom 3-1/2 in. thickness of fill material applied within the annulus. Fill material to be recessed a min 1/2 in. from the bottom surface of the floor or both surfaces of the wall assembly. Mortar to be mixed with water at a rate of 1.4 parts dry mixture to 1.0 part water by weight in accordance with the installation instructions supplied with the product.

   SPECIFIED TECHNOLOGIES INC - SpecSeal Mortar

   *Bearing the UL Classification Marking

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-1228	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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