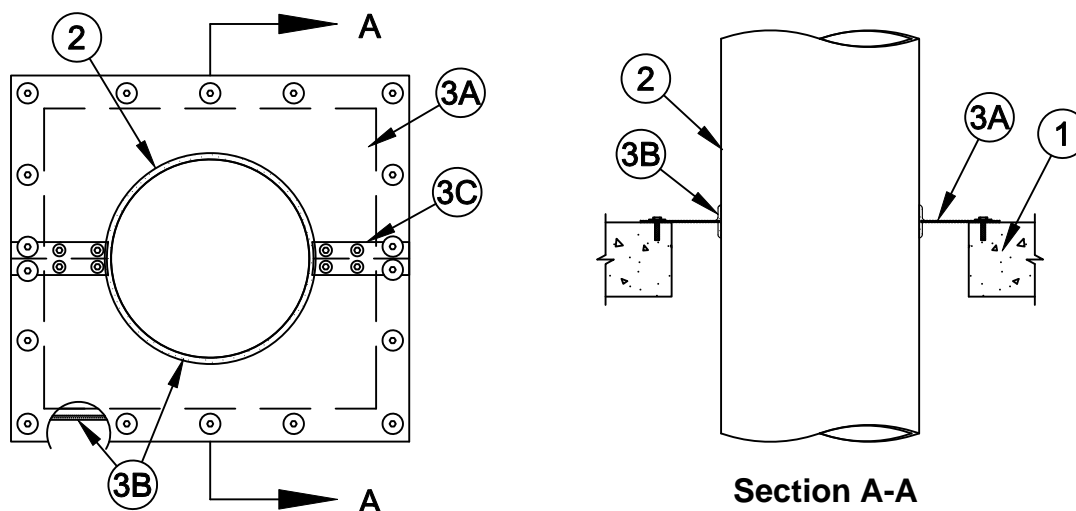


## System No. C-AJ-7107

F Rating - 2 Hr

T Rating - 0 Hr



- 1. Floor or Wall Assembly** - Min 4-1/2 in. (114 mm) thick lightweight or normal weight (100-150 pcf or 1600-2400 kg/m<sup>3</sup>) concrete. Wall may also be constructed of any UL Classified **Concrete Blocks\***. The rectangular or circular opening in the floor or wall assembly shall be min 1 in. (25 mm) to max 3 in. (76 mm) wider, longer and/or higher than the diameter of the duct.  
See **Concrete Blocks** (CAZT) category in the Fire Resistance Directory for names of manufacturers.
- 2. Through Penetrant** - Nom 12 in. (305 mm) diam (or smaller) No. 28 gauge (or heavier) steel duct, to be installed within the firestop system. Steel duct to be rigidly supported on both sides of floor or wall assembly.
- 3. Firestop System** - The firestop shall consist of the following:
  - A. Fill, Void or Cavity Materials\* - Composite Sheet** - Rigid aluminum foil-faced intumescent sheet with steel mesh and galv steel sheet backer. Sheets may be installed as one solid sheet, cut in two pieces or slit on one side of the penetrant. Sheets cut to tightly follow the contour of the duct with an annular space equal to or less than 3/16 in. (5 mm). Sheets cut to lap a min of 2 in. (51 mm) on the floor or wall surfaces. Sheets to be installed on top surface of the floor or each side of wall with foil facing against floor or wall surface and secured with min 3/16 in. (5 mm) diam by 1-1/4 in. (32 mm) long steel concrete screws, in conjunction with min 1-1/4 in. (32 mm) diam steel fender washers. Spacing of fasteners not to exceed 6 in. (152 mm) OC with additional fasteners located on each side of butted seams or slits made to permit installation of the sheet around the duct.  
**SPECIFIED TECHNOLOGIES INC** - SpecSeal CS Composite Sheet
  - B. Fill, Void or Cavity Materials\* - Putty or Sealant** - Min 3/16 in. (5 mm) thick by 2 in. (51 mm) wide band of putty or sealant required around entire periphery of duct. Putty or sealant band installed to project approx 1 in. (25 mm) beyond each face of the composite sheet (Item 3B) on top surface of floor or on both sides of wall assembly. Nom 3/16 in. (5 mm) cove bead of putty or sealant applied around base of duct at its egress from the intumescent sheet on top surface of floor or on both sides of the wall. Nom 3/16 in. (5 mm) wide by 3/16 in. (5 mm) thick putty strips or nom 1/4 in. (6 mm) diam bead of sealant applied beneath composite sheet around entire perimeter of through opening on top surface of floor or on both sides of the wall.  
**SPECIFIED TECHNOLOGIES INC** - SpecSeal Putty, SpecSeal 100, 101, 102, 120, 129 or 105 Sealant or SpecSeal LCI Sealant
  - C. Steel Cover Strip (Not Shown)** - Min 2 in. (51 mm) wide strip of min 0.020 in. (.51 mm) thick (26 gauge) galv steel centered over entire length of each butted seam or slit made in the composite sheet (Item 3A). Prior to installation of the steel strip, the seam or slit in the sheet shall be covered with a nom 1/8 by 1/2 in. (3.2 by 13 mm) ribbon of putty or a nom 1/4 in. (6 mm) diam bead of sealant (Item 3B). Steel cover strip secured to galv steel sheet backer of intumescent sheet with steel sheet metal screws or rivets spaced max 3 in. (76 mm) OC on each side of seam or slit.  
\*Bearing the UL Classification Mark



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