

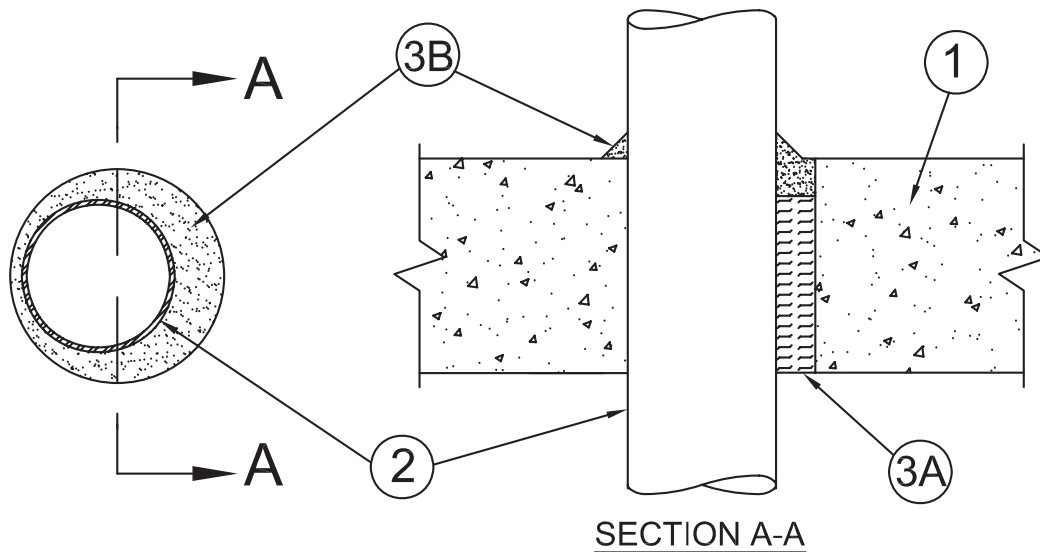
System No. C-AJ-2299

November 20, 2009

F Rating – 2 Hr

T Rating – 2 Hr

W Rating – Class 1 (See Item 3)



- 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***. Max diam of opening is 3 in. (76 mm).
See **Concrete Blocks (CAZT)** in Volume 1 of the Fire Resistance Directory for names of manufacturers.
- Through Penetrants** – One nonmetallic pipe or conduit 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 min 0 in. (0 mm, point contact) to max 5/8 in. (16 mm). Pipe or conduit to be rigidly supported on both sides of the floor or wall assembly. The following types and sizes of nonmetallic pipes or conduit may be used:
 - Polyvinyl Chloride (PVC) Pipe** – Nom 2 in. (51 mm) diam (or smaller) Schedule 40 solid core or cellular core PVC pipe for use in closed (process or supply) piping systems.
 - Rigid Nonmetallic Conduit**++ – Nom 2 in. (51 mm) diam (or smaller) Schedule 40 PVC conduit installed in accordance with the National Electrical Code (NFPA No. 70).
 - Chlorinated Polyvinyl Chloride (CPVC) Pipe** – Nom 2 in. (51 mm) diam (or smaller) SDR11 CPVC pipe for use in closed (process or supply) piping system.
 - Acrylonitrile Butadiene Styrene (ABS) Pipe** – Nom 2 in. (51 mm) diam (or smaller) Schedule 40 solid core or cellular core ABS pipe for use in closed (process or supply) piping systems.
 - Electrical Nonmetallic Tubing (ENT)** ++ – Nom 1 in. (25 mm) diam (or smaller) ENT installed in accordance with the National Electric Code (NFPA No. 70).See **Rigid Nonmetallic Conduit (DZKT)** and **Electrical Nonmetallic Tubing (FKHU)** categories in the Electrical Construction Equipment Directory for names of manufacturers.
- Firestop System** – The firestop system shall consist of the following:
 - Packing Material** – Min 4 in. (102 mm) thickness of min 4 pcf (64 kg/m³) mineral wool batt insulation packed into the opening as a permanent form. Packing material to be recessed from top surface of floor or from both surfaces of wall to accommodate the required thickness of caulk.
 - Forming Material*** – As an alternate to the packing material in Item 3A, nom 4 in. (102 mm) wide strips of min 1/2 in (13 mm) thick compressible mat to be stacked to a thickness greater than the width of the annular space and compression-fitted, edge-first, to fill the annular space to a min 4 in. (102 mm) depth. Top of forming material to be recessed from top surface of floor or from both surfaces of wall as necessary to accommodate the required thickness of caulk fill material.
3M COMPANY – Fire Barrier Packing Material
 - Fill, Void or Cavity Materials* – Caulk or Sealant** – Min 1/2 in. (13 mm) thickness of caulk applied within the annulus, flush with top surface of floor or both surfaces of wall. An additional 1/2 in. (13 mm) diam bead of caulk applied at point contact location between penetrant/floor or penetrant/wall interface.
3M COMPANY – FireDam 150+, CP 25WB+, IC 15WB+ caulk or FB-3000 WT sealant
(Note: W Rating applies only when FB-3000 WT is used. CP 25WB+ and FireDam 150+ not suitable for use with CPVC pipes).

*Bearing the UL Classification Mark

++Bearing the UL Listing Mark

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