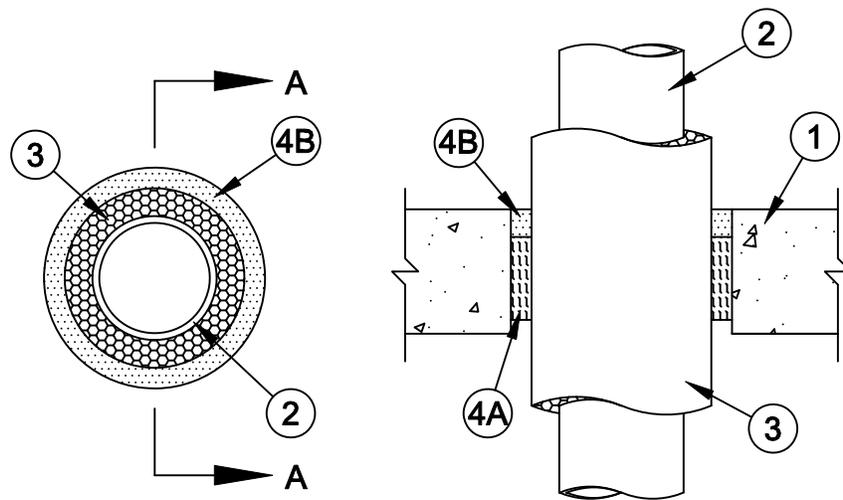


System No. C-AJ-5133

F Rating - 3 Hr.
T Rating - 1/2 Hr.



Section A-A

- 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 or min 5 in. (127 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete wall. Floor may also be constructed of any UL Classified hollow-core **Precast Concrete Units***. Wall may also be constructed of any UL Classified **Concrete Blocks***. Max diam of opening is 8 in. (203 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 the Fire Resistance Directory for names of manufacturers.
- Through Penetrants** - One metallic pipe or tube to be installed concentrically within the firestop system. 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:
 - Steel Pipe** - Nom 4 in. (102 mm) diam (or smaller) Schedule 5 (or heavier) steel pipe.
 - Iron Pipe** - Nom 4 in. (102 mm) diam (or smaller) cast or ductile iron pipe.
 - Copper Tubing** - Nom 4 in. (102 mm) diam (or smaller) Type M (or heavier) copper tubing.
 - Copper Pipe** - Nom 4 in. (102 mm) diam (or smaller) Regular (or heavier) copper pipe.
- Tube Insulation - Plastics+** - Nom 1 in. (25 mm) thick acrylonitrile butadiene/polyvinyl chloride (AB/PVC) flexible foam furnished in the form of tubing. An annular space of min 3/4 in. (19 mm) to max 1-1/4 in. (32 mm) is required within the firestop system.

See **Plastics+** (QMFZ2) category in the Recognized Component Directory for names of manufacturers. Any Recognized Component tube insulation material meeting the above specifications and having a UL 94 Flammability Classification of 94-5A may be used.

- Firestop System** - The firestop system shall consist of the following:
 - Packing Material** - Min 3 in. (76 mm) thickness of min 4 pcf (64 kg/m³) density mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from top surface of concrete floor or from both surfaces of wall assembly to accommodate required thickness of fill material.
 - Fill, Void or Cavity Material* - Sealant** - Min 1 in. (25 mm) thickness of fill material applied within annulus, flush with top surface of concrete floor or with both surfaces of wall assembly. When floor is constructed of hollow-core precast concrete unit, fill material to be installed symmetrically on both sides of floor, flush with floor surfaces.

SPECIFIED TECHNOLOGIES INC - SpecSeal Series SSS Sealant or SpecSeal LCI Sealant

+ Bearing the UL Recognized Component Mark

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.



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