



System No. F-A-2162

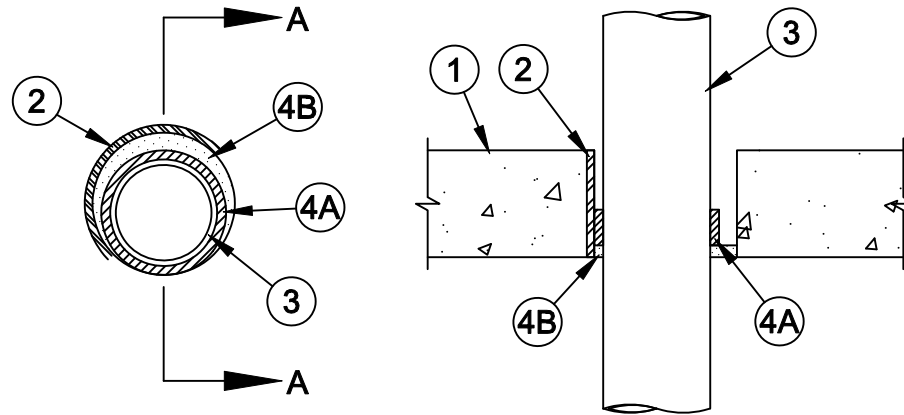
F Rating - 2 Hr

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 4B)



Section A-A

- Floor Assembly** - Min 4-1/2 in. (115 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete. Floor may also be constructed of min 6 in. (152 mm) thick hollow core UL Classified **Precast Concrete Units***. See Table under Item 4B for max diam of opening.

See **Precast Concrete Units** (CFTV) category in Fire Resistance Directory for names of manufacturers.

- Steel Sleeve** - (Optional) - Nom sleeve diam not to exceed max opening size specified under Table in Item 3B. Sleeve shall be Schedule 10 (or heavier) steel pipe or No. 26 ga (0.022 in. or 0.56 mm thick) sheet steel sleeve with square anchor flange spot welded to the sleeve at approx mid-height. Sleeve cast or grouted into floor assembly, flush with floor surfaces.
- Through-Penetrants** - One nonmetallic pipe or conduit installed within the firestop system. See Table under Item 3B for annular space required in the firestop system. Pipe to be rigidly supported on both sides of floor assembly. The following types and sizes of nonmetallic pipes may be used:
 - Polyvinyl Chloride (PVC) Pipe** - Nom 4 in. (102 mm) diam (or smaller) Schedule 40 cellular or solid core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
 - Chlorinated Polyvinyl Chloride (CPVC) Pipe** - Nom 4 in. (102 mm) diam (or smaller) SDR 13.5 CPVC pipe for use in closed (process or supply) piping systems.
 - Rigid Nonmetallic (RNC) Conduit** - Nom 4 in. (102 mm) diam (or smaller) Schedule 40 PVC conduit installed in accordance with the National Electrical Code (NFPA No. 70).
 - Electrical Nonmetallic Conduit+** - Nom 4 in. (102 mm) diam (or smaller) PVC tubing installed in accordance with the National Electrical Code (NFPA No. 70).
- Firestop System** - The firestop system shall consist of the following:
 - Fill, Void or Cavity Material* - Wrap Strip** - See Table under Item 3B for min size of intumescent wrap strip. The wrap strip is continuously wrapped around the outer circumference of the pipe once and slid into the annular space and held in place with a layer of aluminum foil tape. The bottom edge of the wrap strip shall be recessed max 1/2 in. (13 mm) from the bottom surface of the concrete floor.

SPECIFIED TECHNOLOGIES INC - SpecSeal SSW125, SSW250, or SSW375 Wrap Strip



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B. Fill, Void or Cavity Material* - Sealant - Min 1/2 in. thickness of fill material applied within the annulus, flush with bottom surface of floor. To achieve L and W Ratings, min 1/4 in. (6 mm) thickness of fill material applied within the annulus, flush with top surface of floor. When floor is constructed of hollow core concrete, min 1/4 in. (6 mm) depth of caulk at top of floor is required.

SPECIFIED TECHNOLOGIES INC - SpecSeal Series SSS Sealant, SpecSeal LCI Sealant, Pensil 300 Sealant or SpecSeal Series SIL300 Sealant for floors or walls and Pensil 300 SL Sealant or SpecSeal Series SIL300SL Sealant for floors only.

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

Nom Pipe Diam, In. (mm)	Wrap Strip	Wrap Strip Size, thick, x width, in. (mm)	Max Diam of Opening, in. (mm)	Annular Space, in (mm)	
				Min	Max
2 (51)	SSW125	1/8 x 1-1/2 (3 x 38)	3 (76)	1/8 (3)	1/2 (13)
3 (76)	SSW225	1/4 x 1-1/2 (6 x 38)	5 (127)	3/8 (10)	1-1/8 (29)
4 (102)	SSW375	3/8 x 1-1/2 (9.6 x 38)	6 (152)	3/8 (10)	1-1/8 (29)

*Bearing the UL Classification Mark



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