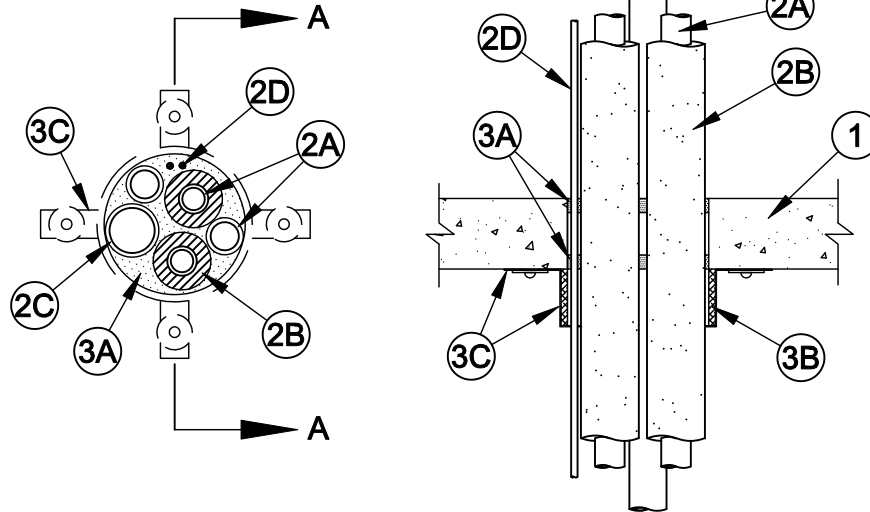


System No. F-A-8003

F Rating - 1 Hr

T Rating - 0 Hr



Section A-A

- Floor Assembly** - Min 2-1/2 in. thick reinforced lightweight or normal weight (100-150 pcf) concrete. Floor may also be constructed of any UL Classified **Precast Concrete Units***. Max diam of opening is 5 in.
See **Precast Concrete Units** (CFTV) category in the Fire Resistance Directory for the names of manufacturers.
- Through Penetrants** - Pipes, tubes and cables to be bundled together and centered in through opening. The annular space shall be min 0 in. (point contact) to max 1/2 in. Pipes and tubes be rigidly supported on both sides of floor assembly. The following types and sizes of through penetrants may be used:
 - Copper Tube** - Nom 1 in. diam (or smaller) Type L (or heavier) copper tubing. A max of two nom 1 in. diam (or smaller) copper tubes without tube insulation (Item 2B) may be used in through opening. In addition to the uninsulated copper tubes, a max of two nom 3/4 in. diam (or smaller) Type L (or heavier) copper tubes with tube insulation (Item 2B) may be included in through opening.
 - Tube Insulation - Plastics#** - Nom 1/2 in. thick acrylonitrile butadiene/polyvinyl chloride (AB/PVC) flexible foam furnished in the form of tubing. Tube insulation to be installed on a max of two nom 3/4 in. diam (or smaller) copper tubes in through opening.
 - Nonmetallic Pipe** - Nom 1-1/2 in. diam (or smaller) Schedule 40 (or heavier) solid or cellular core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping system. A max of one nonmetallic pipe may be included in the through opening.
 - Cable** - Four pair No 18 AWG (or smaller) cable with PVC insulation and jacket materials. A max of two cables may be included in the through opening.
- Firestop System** - The firestop system shall consist of the following:
 - Fill, Void or Cavity Material* - Sealant** - Min 1/2 in. thickness of fill material applied within the annulus, flush with top and bottom surfaces of floor. At point contact location, apply min 1/4 in. thick bead of fill material at the through penetrant/concrete interface on both surfaces of the floor.

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



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- B. **Fill, Void or Cavity Material* - Wrap Strip** - Nom 1/4 in. thick intumescent material faced on both sides with a plastic film, supplied in 1-1/2 in. wide strips. One layer of wrap strip is wrapped around the group of through penetrants (Items 2A through 2D) at its egress from the sealant with its top edge abutting the bottom surface of the floor. Ends of wrap strip butted together and secured with tape.

SPECIFIED TECHNOLOGIES INC - SpecSeal RED Wrap Strip

- C. **Steel Collar** - Collar fabricated from coils of precut 0.016 in. thick (30 MSG) galv sheet steel available from wrap strip manufacturer. Collar shall be nom 1-1/2 in. deep with 1 in. wide by 2 in. long anchor tabs for securement to the concrete floor. Retainer tabs, 3/4 in. wide tapering down to 3/8 in. wide and located opposite the anchor tabs, are folded 90 degrees toward through penetrants to retain the wrap strip. Steel collar wrapped around wrap strip and through penetrants with a 1 in. wide overlap along its perimeter joint. Steel collar tightened around wrap strip and through penetrants using min 1/2 in. wide by 0.028 in. thick stainless steel hose clamp installed at midheight of collar. As an alternate to the steel hose clamp, the steel collar may be secured together by means of three No 8 by 1/2 in. steel sheet metal screws. Collar secured to concrete surface with 1/4 in. diam by min 1-3/4 in. long steel concrete wedge anchors in conjunction with min 1/4 in. by 1-1/4 in. diam steel fender washers. Four concrete anchors, symmetrically located, are required.

*Bearing the UL Classification Mark

#Bearing the UL Recognized Component Mark



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