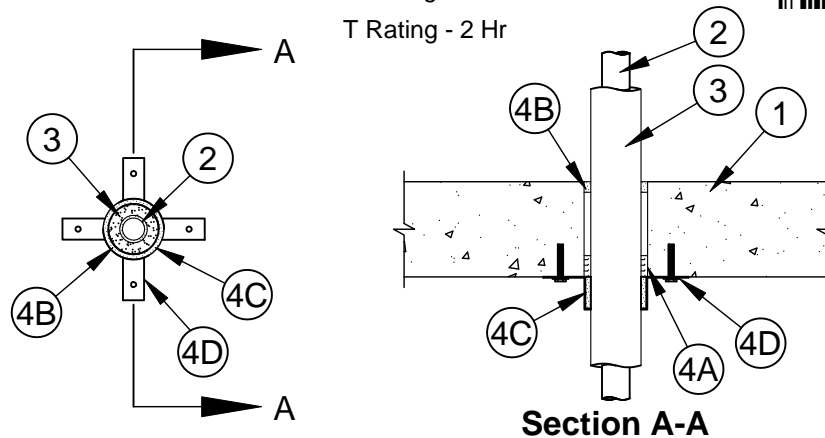


System No. C-AJ-2145

F Rating - 2 Hr

T Rating - 2 Hr



- Floor or Wall Assembly** - Min 4-1/2 in. thick reinforced lightweight or normal weight (100-150 pcf) concrete. Wall may also be constructed of any UL Classified **Concrete Blocks***. Max diam of opening is 3 in.
See **Concrete Blocks** (CAZT) category in the Fire Resistance Directory for names of manufacturers.
- Through Penetrants** - One nonmetallic pipe to be centered within the firestop system. Pipe to be rigidly supported on both sides of floor or wall. The following types and sizes of pipes may be used:
 - Polyvinyl Chloride (PVC) Pipe** - Nom 1 in. diam (or smaller) Schedule 40 cellular or solid core PVC pipe for use in closed (process or supply) piping systems.
 - Chlorinated Polyvinyl Chloride (CPVC) Pipe** - Nom 1 in. diam (or smaller) SDR 13.5 CVPC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
- Tube Insulation - Plastics#** - Nom 1/2 in. thick acrylonitrile butadiene/polyvinyl chloride (AB/PVC) flexible foam furnished in the form of tubing. The annular space between the insulated through penetrant and the periphery of the opening shall be 1/4 in.
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 UL94 Flammability Classification of 94-5VA may be used.
- Firestop System** - The firestop system shall consist of the following:
 - Packing Material** - Min 1 in. thickness of min 4 pcf mineral wool batt insulation firmly packed into opening. Packing material to be flush with bottom surface of floor or both surfaces of wall.
 - Fill, Void or Cavity Material* - Sealant** - Min 1/2 in. thickness of fill material applied within the annulus, flush with top surface of floor or with both surfaces of wall.
SPECIFIED TECHNOLOGIES INC - SpecSeal Series SSS Sealant or SpecSeal LCI Sealant
 - 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. Single layer of wrap strip shall be wrapped around the insulated through penetrant with the ends butted and held in place with masking tape. The edge of the wrap strip shall abut the surface of the concrete floor or wall. In floor assemblies, the wrap strip to be installed on the bottom side of the concrete floor. In wall assemblies, the wrap strip to be installed on each side of the concrete wall.
SPECIFIED TECHNOLOGIES INC - SpecSeal RED Wrap Strip
 - Steel Collar** - Collar fabricated from coils of precut 0.016 in. thick (No. 30 MSG) galv sheet steel available from wrap strip manufacturer. Collar shall be nom 1-1/2 in. deep with min two 1 in. wide by 2 in. long anchor tabs for securement to the concrete floor or wall. Retainer tabs, 3/4 in. wide tapering down to 3/8 in. wide and located opposite the anchor tabs, are folded 90 degree toward through-penetrant surface to maintain the annular space around the through-penetrant and to retain the wrap strips. Steel collar wrapped around wrap strips and through penetrant with a 1 in. wide overlap along its perimeter joint. Steel collar tightened around wrap strips and through penetrant using min 1/2 in. wide by 0.028 in. thick stainless steel hose clamp installed at midheight of the collar. Collar secured to concrete surface with two 1/4 in. diam by min 1-1/4 in. long steel concrete screws symmetrically located in conjunction with min 1 in. diam steel fender washers. In floor assemblies, one collar is used on the bottom side of the concrete floor. In wall assemblies, a collar is used on each side of the concrete wall.

#Bearing the UL Recognized Component Mark

*Bearing the UL Classification Marking



Specified Technologies Inc. 210 Evans Way Somerville, NJ 08876

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(800)992-1180 • (908)526-8000 • FAX (908)231-8415 • E-Mail:techserv@stifirestop.com • Website:www.stifirestop.com



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