

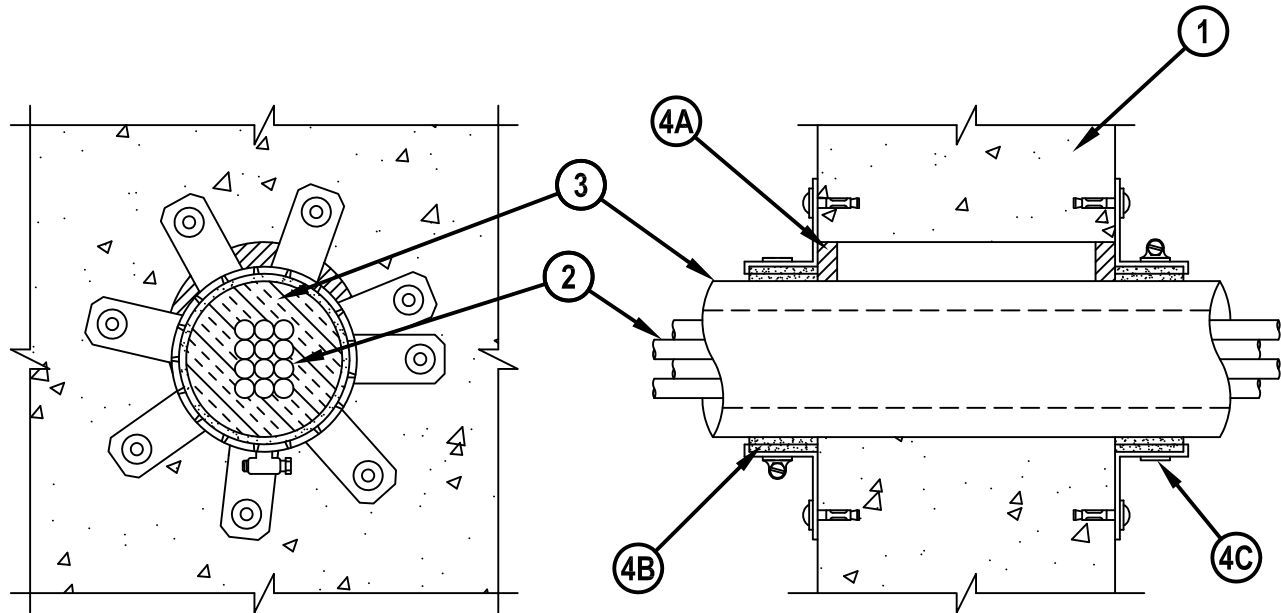


Classified by  
Underwriters Laboratories, Inc.  
to UL 1479.

## System No. W-J-5122

F Rating - 2 Hr  
T Rating - 1-3/4 Hr

WJ 5122



### SECTION A-A

1. Wall Assembly — Min 5 in. (127 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m<sup>3</sup>) concrete. Wall may also be min 7-5/8 in. (194 mm) thick wall assembly constructed of any UL Classified Concrete Blocks\* or common bricks, laid up with mortar. Max diam of opening is 5 in. (127 mm).

See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.

2. Through Penetrant - Beverage Line — Nom 4 in. (102 mm) diam (or smaller) insulated beverage line for use in closed (process or supply) piping systems, installed concentrically or eccentrically within the opening. The annular space between penetrant and periphery of opening shall be min 0 in. to a max 1 in. (25 mm). Penetrant to be rigidly supported on both sides of wall assembly. The beverage line shall consist of the following components:

A. Nonmetallic Tubing — A max of twelve nom 1/2 in. (13 mm) diam polyethylene (PE) tubing or crosslinked polyethylene (PEX) tubing, tightly bundled.

B. Tube Insulation - Plastics+ — Max 3/4 in. (19 mm) thick acrylonitrile butadiene/polyvinyl chloride (AB/PVC) flexible foam furnished in the form of tubing. The insulation is to be tightly secured around the bundled tubing with adhesive supplied with tube insulation.

See Plastics (QMFZ2) category in the Plastics 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 94-5VA may be used.



**Hilti Firestop Systems**

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### 3. Firestop System — The firestop system shall consist of the following:

A. Fill, Void or Cavity Material\* - Sealant — Min 1/2 in. (13 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall.

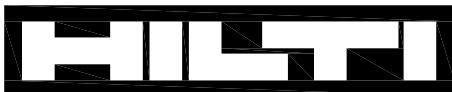
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant or FS-ONE MAX Intumescent Sealant

B. Fill, Void or Cavity Material\* — Wrap Strip — Nom 3/16 in. (5 mm) thick by 1-3/4 in. (44 mm) wide intumescent wrap strip. A min of two layers of wrap strip shall be continuously wrapped tightly around the outer circumference of the pipe and held in place with tape. The wrap strip layers are to be installed tightly butted against both surfaces of wall. Wrap strips are installed on each surface of the wall.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP-648E Wrap Strip

C. Steel Collar — Steel collar fabricated from coils of precut min 0.016 in. thick (No. 28 gauge) galv steel available from fill material manufacturer. Collar shall be nom 1-3/4 in. (44 mm) deep with 1 in. (25 mm) wide by 2 in. (51 mm) long anchor tabs on 1-3/4 in. (44 mm) centers for securement to both surfaces of wall. In addition, collars contain retainer tabs 1/2 in. (13 mm) wide by 3/16 in. (5 mm) long, located opposite the anchor tabs. Collar shall be tightly wrapped over the wrap strip, overlapping min 1 in. (25 mm) at seam and compressed with a min 1/2 in. (13 mm) wide by 0.028 in. thick stainless steel band at collar mid-height. The retainer tabs are folded 90 deg towards the pipe to retain the wrap strip. Every other tab of collar secured to surface of wall with 3/16 in. (5 mm) diam steel masonry screws (or equivalent), min 1-1/2 in (38 mm) long with min 3/4 in. (19 mm) diam steel washers.

\* 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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