

Hilti Firestop Systems

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System No. F-A-2154

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

A. Fill, Void or Cavity Material* — Wrap Strip — Nom 3/16 in. (5 mm) thick intumescent material supplied in 1- 3/4 in. (44 mm) wide strips. Wrap strip to be located around nonmetallic pipe at bottom of opening and butted up against the compression coupling (Item 3). Two layers of wrap strip to be continuously wrapped around nonmetallic pipe with ends butted and held in position using tape. HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP 648E Wrap Strip

- B. Steel Collar Steel collar fabricated from coils of precut min 0.016 in. (0.4 mm) thick (No. 28 gauge) galv steel available from fill material manufacturer. Collar shall be min 1-3/4 in. (44 mm) deep with 1 in. (25 mm) wide by 2 in. (51 mm) long anchor tabs. In addition, collars contain preformed retainer tabs 1/2 in. (13 mm) wide by 3/16 in. (5 mm) long, located opposite the anchor tabs. Collar, with anchor tabs upward (unbent), 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. (0.7 mm) thick stainless steel band at collar mid-height.
- C. Hanger Straps Hanger straps to be fabricated out of min 0.016 in. (0.41 mm) thick (28 gauge) sheet steel. Hanger straps to be min 1-1/2 in. (38 mm) wide tapering to 1/4 in. (6 mm) and of sufficient length so when attached to anchor tabs they lap onto metallic pipe above the compression coupling a min of 1 in. (25 mm) For nom max 2 in. (51 mm) (and smaller) penetrants, two hangers are required. For nom 2-1/2 to 4 in. (64 to 102 mm) penetrants, three hangers are required. Hangers to be secured to collar assembly by inserting 1/4 in. (6 mm) end into opening in collar anchor tab and bending 180°. The hangers shall be tightly compressed around the metallic pipe below the floor, directly above the compression coupling with a min 1/2 in. (13 mm) stainless steel hose clamp.
- D. Packing Material Min 4 in. (102 mm) thickness of min 4 pcf (64 kg/m3) mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor to accommodate the required thickness of fill material. For hollow core floors, min thickness of packing material is 5-1/2 in. (140 mm) and packing material is installed flush with bottom surface of floor and recessed from top surface of floor to accommodate the required thickness of fill material.
- E. Fill, Void or Cavity Material* Min 1/2 in. (13 mm) thickness of sealant applied within annulus, flush with top surface of floor. In addition, a min 1/4 in. (6 mm) bead of sealant applied at point contact location.

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

* 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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