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System No. W-J-2218

WJ 2218

T Rating, hr						
Penetrant Type						
2A	2B, 2C	2D (Max 2 in. diam)	2D	2E	2F, 2G, 2H	
2	2	2	1-1/2	1-1/2	2	

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

A. Fill, Void or Cavity Materials* — Sealant — Min 5/8 in. (16 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC - 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. Layers of wrap strip are continuously wrapped around the through-penetrant with ends butted and held in place with tape. See Table below for number of layers of wrap strip required. Wrap strip butted tightly against both surfaces of wall.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC - CP648-E W45/1-3/4" Firestop Wrap Strip

Nom Pipe Diam, in.	No. of Layers of Wrap Strip Required	
8 (or smaller)		4
4 (or smaller)		3
2 (or smaller)		2

C. 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 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 attachment to both surfaces of wall. The opposite side incorporates retainer tabs, 1/2 in. (13 mm) wide by 3/16 in. (5 mm) long, which are bent toward the pipe surface. Collar shall be tightly wrapped over the wrap strip, overlapping min 1 in. (25 mm) at seam. A nom 1/2 in. (13 mm) wide stainless steel hose clamp shall be secured to the collar at its mid-height, or collar shall be secured with min two No. 8 sheet metal screws at the overlap. Collar secured to both surfaces of wall with a min of four 1/4 in. (6 mm) diam steel expansion bolts along with min 3/4 in. (19 mm) diam steel washers symmetrically spaced.

* 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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