

Hilti Firestop Systems

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System No. W-J-4072

WJ 4072

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

A. Fill, Void or Cavity Material* - Fire Blocks — Fire blocks installed with 5 in. (127 mm) dimension projecting through and centered or flush with one surface of the wall in the opening. In concrete block walls, fire block to fill entire thickness of wall opening unless wall is solid filled. Blocks to be firmly packed to completely fill the entire height and width of opening.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC - CFS-BL Firestop Block

- B. Fill Void or Cavity Materials* Fill material to be forced into interstices of cables, between cables and cable tray and in voids between blocks and between blocks and the periphery of the opening to the max extent possible on both surfaces of wall.
- HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC FS-ONE Sealant, FS-ONE MAX Intumescent Sealant, CP 618 Putty Stick, CP 660 Firestop Foam or CP 620 Fire Foam
- C. Wire Mesh When the annular space exceeds 12 in. (305 mm) to the periphery above or below the cable tray, or 12 in. (305 mm) between tray and the side of opening, a nom 2 in. (51 mm) by 2 in. (51 mm) wire fencing shall be used to keep the blocks in place. The wire fencing shall be fabricated from min No. 16 SWG (0.060 in.) (1.52 mm) galv steel wire. The wire mesh shall begin max 2-1/2 in. (64 mm) above, below or to the sides of the cable tray and overlap min 3 in. (76 mm) beyond the periphery of the opening. Wire fencing secured to both surfaces of the wall assembly by means of 1/4 in. (6 mm) diam by 1 in. (25 mm) long steel concrete anchors and 1/4 in. (6 mm) by 1-1/2 in. (38 mm) diam fender washers spaced max 8 in. (203 mm) OC.
- C1. Wire Mesh (As an alternative to Item 4C) When the annular space exceeds 12 in. (305 mm) to the periphery above or below the cable tray, or 12 in. (305 mm) between tray and the side of opening, a nom 1 in. (25 mm) hexagonal wire fencing shall be used to keep the blocks in place. The wire fencing shall be fabricated from No. 20 SWG (0.036 in. or 0.9 mm) or heavier galv steel wire. The wire mesh shall begin max 2-1/2 in. (64 mm) above, below or to the sides of the cable tray and overlap min 3 in. (76 mm) beyond the periphery of the opening. Wire fencing secured to both surfaces of the wall assembly by means of 1/4 in. (6 mm) diam by 1 in. (25 mm) long steel concrete anchors and 1/4 in. (6 mm) by 1-1/2 in. (38 mm) diam fender washers spaced max 8 in. (203 mm) OC.
- C2. Steel Plate/Steel Strut System (Not Shown)—As an alternative to wire mesh, when the annular space exceeds 12 in. (305 mm) to the periphery above or below the cable tray, or 12 in. (305 mm) between tray and the side of opening, a min 22 MSG steel plate shall be used to keep the blocks in place. The steel plate is attached to nom 13/16 in. (0.81 mm) deep, 12 MSG steel struts with 1/4 in. (6 mm) diam strut nuts, spaced 8 in. (203 mm) OC. The plate shall begin max 2-1/2 in. (64 mm) above, below or to the sides of the cable tray and overlap min 3 in. (76 mm) beyond the periphery of the opening. The struts shall be secured to both surfaces of the wall assembly by means of 1/4 in. (6 mm) diam by 1 in. (25 mm) long steel concrete anchors with steel nuts spaced max 12 in. (305 mm) OC.

+Bearing the UL Listing Mark

* 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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