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Hilti Firestop Systems

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System No. F-B-1029

FB 1029

3. Firestop Device* — Drop-in firestop device installed in core-drilled or sleeved opening in concrete floor assembly in accordance with accompanying installation instructions. The firestop device shall extend a max 1/2 in. (13 mm) below the bottom surface of the floor or may be recessed a max of 1/2 in. from the bottom surface of the floor. The firestop device flange should be secured to the top surface of the floor with three 1/4 in. (6 mm) diam by min 1-1/4 in. (32 mm) long steel expansion bolts or screw anchors (installed in a triangular fashion through holes provided). As alternates to the anchors specified above, Hilti 1/4 in. (6 mm) diam by 1-1/4 in. (32 mm) long KWIK-BOLT 3 steel expansion anchor or Hilti 1/4 in. (6 mm) by 3/4 in. (19 mm) long Metal HIT Anchor may be used. In addition, for nom 2 in. (51 mm), 3 in. (76 mm) and 4 in. (102 mm) firestop devices, four 11/16 in. (18 mm) long Hilti X-GH P18 MX steel fasteners may be installed through the steel flange, two on each side. The firestop devices shall be installed as detailed in the following table:

Core Hole or Sleeve Diam, In. (mm)	Firestop Device	Nom Diam of Through Penetrant, In. (mm)	Min-Max Floor Thickness In. (mm)
4 (102)	CFS-DID 2"C	2 (51) or smaller+	6 - 6-1/2 (152 - 165)
5 (102)	CFS-DID 3"C	3 (76)	6 - 6-1/2 (152 - 165)
6 (152)	CFS-DID 4"C	4 (102)	6 - 6-1/2 (152 - 165)
4 (102)	CFS-DID 2" HC8	2 (51) or smaller+	7-1/2 - 8-1/2 (191 - 216)
5 (102)	CFS-DID 3" HC8	3 (76)	7-1/2 - 8-1/2 (191 - 216)
6 (152)	CFS-DID 4" HC8	4 (102)	7-1/2 - 8-1/2 (191 - 216)
4 (102)	CFS-DID 2" HC10	2 (51) or smaller+	9-1/2 - 10-1/2 (241 - 267)
5 (102)	CFS-DID 3" HC10	3 (76)	9-1/2 - 10-1/2 (241 - 267)
6 (152)	CFS-DID 4" HC10	4 (102)	9-1/2 - 10-1/2 (241 - 267)
4 (102)	CFS-DID 2" HC12	2 (51) or smaller+	11-1/2 - 12-1/2 (292 - 318)
5 (102)	CFS-DID 3" HC12	3 (76)	11-1/2 - 12-1/2 (292 - 318)
6 (152)	CFS-DID 4" HC12	4 (102)	11-1/2 - 12-1/2 (292 - 318)

+ For pipe smaller than nom 2 in. (51 mm) diam, Adapter and Top Seal Plug is required to be used.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CFS-DID 2"C, CFS-DID 3"C, CFS-DID 4"C, CFS-DID 2"HC8, CFS-DID 3"HC8, CFS-DID 4"HC8, CFS-DID 2"HC10, CFS-DID 4"HC10, CFS-DID 4"HC12, CFS-DID 3"HC12, CFS-DID 4"HC12
3A. Firestop Device* - Water Barrier Module — (Optional, Not Shown) - Used in combination with the CFS-DID device and supplied by device manufacturer. Module is threaded onto top of device.

W Rating and L Rating apply only when water barrier module is used.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC - Water Barrier Module



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- 4. Through Penetrant One metallic pipe, conduit or tubing to be installed within the firestop device. Pipe, conduit or tubing to be rigidly supported on both sides of floor assembly. The following types of pipe, conduit or tubing may be used:
 - A. Steel Pipe Nom 4 in. (102 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
 - B. Iron Pipe Nom 4 in. (102 mm) diam (or smaller) cast or ductile iron pipe.
 - C. Conduit Nom 4 in. (102 mm) diam (or smaller) rigid steel conduit.
 - D. Conduit Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing.
 - E. Copper Tubing Nom 4 in. (102 mm) diam (or smaller) Type L (or heavier) copper tubing.
 - F. Copper Pipe Nom 4 in. (102 mm) diam (or smaller) Regular) or heavier copper pipe.
- * 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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