

Underwriters Laboratories, Inc. September 11, 2024

Hilti Firestop Systems

Page: 1 of 3

System No. F-B-5005

S	
0	
0	
S	
ш	
ш	

Nom Pipe or Tube (Item 4) Diam, In. (mm)	Insulation Type (Item 5 or 5A) and Thickness, In. (mm)	Firestop Device	Core Hole or Sleeve Diam, In. (mm)	Min-Max Floor Thickness In. (mm)
1/2 (13)	3/4 or 1 (19 or 25) AB/PVC	CFS-DID 2"C	4 (102)	6 - 6-1/2 (152 - 185)
1 (25)	3/4 or 1 (19 or 25) AB/PVC	CFS-DID 3"C	5 (127)	6 - 6-1/2 (152 - 185)
2 (51)	3/4 or 1 (19 or 25) AB/PVC	CFS-DID 4"C	6 (152)	6 - 6-1/2 (152 - 185)
1/2 (13)	1 (25) Glass Fiber	CFS-DID 2"C	4 (102)	6 - 6-1/2 (152 - 185)
1 (25)	1 (25) Glass Fiber	CFS-DID 3"C	5 (127)	6 - 6-1/2 (152 - 185)
1 (25)	1-1/2 (38) Glass Fiber	CFS-DID 4"C	6 (152)	6 - 6-1/2 (152 - 185)
2 (51)	1 (25) Glass Fiber	CFS-DID 4"C	6 (152)	6 - 6-1/2 (152 - 185)
1/2 (13)	3/4 or 1 (19 or 25) AB/PVC	CFS-DID 2" HC8	4 (102)	7-1/2 - 8-1/2 (191 - 216)
1 (25)	3/4 or 1 (19 or 25) AB/PVC	CFS-DID 3" HC8	5 (127)	7-1/2 - 8-1/2 (191 - 216)
2 (51)	3/4 or 1 (19 or 25) AB/PVC	CFS-DID 4" HC8	6 (152)	7-1/2 - 8-1/2 (191 - 216)
1/2 (13)	1 (25) Glass Fiber	CFS-DID 2" HC8	4 (102)	7-1/2 - 8-1/2 (191 - 216)
1 (25)	1 (25) Glass Fiber	CFS-DID 3" HC8	5 (127)	7-1/2 - 8-1/2 (191 - 216)
1 (25)	1-1/2 (38) Glass Fiber	CFS-DID 4"HC8	6 (152)	7-1/2 - 8-1/2 (191 - 216)
2 (51)	1 (25) Glass Fiber	CFS-DID 4"HC8	6 (152)	7-1/2 - 8-1/2 (191 - 216)
1/2 (13)	3/4 or 1 (19 or 25) AB/PVC	CFS-DID 2" HC10	4 (102)	9-1/2 - 10-1/2 (241 - 267)
1 (25)	3/4 or 1 (19 or 25) AB/PVC	CFS-DID 3" HC10	5 (127)	9-1/2 - 10-1/2 (241 - 267)
2 (51)	3/4 or 1 (19 or 25) AB/PVC	CFS-DID 4" HC10	6 (152)	9-1/2 - 10-1/2 (241 - 267)
1/2 (13)	1 (25) Glass Fiber	CFS-DID 2" HC10	4 (102)	9-1/2 - 10-1/2 (241 - 267)
1 (25)	1 (25) Glass Fiber	CFS-DID 3" HC10	5 (127)	9-1/2 - 10-1/2 (241 - 267)
1 (25)	1-1/2 (38) Glass Fiber	CFS-DID 4"HC10	6 (152)	9-1/2 - 10-1/2 (241 - 267)
2 (51)	1 (25) Glass Fiber	CFS-DID 4"HC10	6 (152)	9-1/2 - 10-1/2 (241 - 267)
1/2 (13)	3/4 or 1 (19 or 25) AB/PVC	CFS-DID 2" HC12	4 (102)	11-1/2 - 12-1/2 (292 - 318)
1 (25)	3/4 or 1 (19 or 25) AB/PVC	CFS-DID 3" HC12	5 (127)	11-1/2 - 12-1/2 (292 - 318)
2 (51)	3/4 or 1 (19 or 25) AB/PVC	CFS-DID 4" HC12	6 (152)	11-1/2 - 12-1/2 (292 - 318)
1/2 (13)	1 (25) Glass Fiber	CFS-DID 2" HC12	4 (102)	11-1/2 - 12-1/2 (292 - 318)
1 (25)	1 (25) Glass Fiber	CFS-DID 3" HC12	5 (127)	11-1/2 - 12-1/2 (292 - 318)
1 (25)	1-1/2 (38) Glass Fiber	CFS-DID 4"HC12	6 (152)	11-1/2 - 12-1/2 (292 - 318)
2 (51)	1 (25) Glass Fiber	CFS-DID 4"HC12	6 (152)	11-1/2 - 12-1/2 (292 - 318)



Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. September 11, 2024

Page: 2 of 3

System No. F-B-5005

+ 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 3"HC10, CFS-DID 4"HC10, CFS-DID 2"HC12, CFS-DID 3"HC12, CFS-DID 4"HC12

4. Through Penetrant — One metallic pipe or tubing to be installed within the firestop device. Pipe or tubing to be rigidly supported on both sides of floor assembly. The following types of pipe or tubing may be used:

- A. Steel Pipe Nom 2 in. (51 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
- B. Iron Pipe Nom 2 in. (51 mm) diam (or smaller) cast or ductile pipe.
- C. Copper Tubing Nom 2 in. (51 mm) diam (or smaller) Type L (or heavier) copper tubing.
- D. Copper Pipe Nom 2 in. (51 mm) diam (or smaller) Regular (or heavier) copper pipe.
- 5. Tube Insulation Plastics+ Nom 3/4 or 1 in. (19 or 25 mm) thick acrylonitrile butadiene/polyvinyl chloride (AB/PVC) flexible foam furnished in the form of tubing.

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 UL94 Flammability Classification of 94-5VA may be used.

5A. Pipe Covering* — Nom 1 or 1-1/2 in. (25 or 38 mm) thick hollow cylindrical heavy density (min 3.5 pcf or 56 kg/m3) glass fiber units, jacketed on the outside with an all service jacket. Longitudinal joints sealed with metal fasteners or factory-applied SSL tape. Transverse joints secured with metal fasteners or with butt tape supplied with the product.

See Pipe and Equipment Covering-Materials (BRGU) category in the Building Materials Directory for names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.



Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. September 11, 2024

Page: 3 of 3