

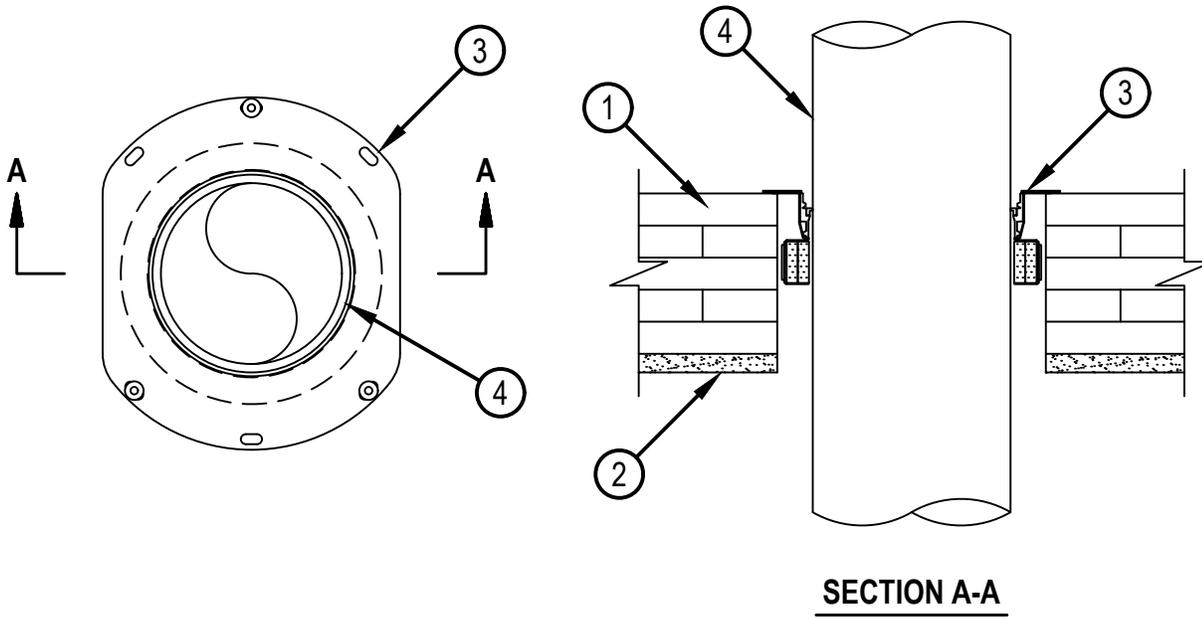


Classified by  
Underwriters Laboratories, Inc.  
to UL 1479 and CAN/ULC-S115

# System No. F-G-2001

FG 2001

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings — 2 hr	F Ratings — 2 Hr
T Ratings — 1/4 Hr	FT Ratings — 1/4 Hr
L Rating At Ambient — Less Than 1 CFM/sq ft (See Item 3A)	FH Ratings — 2 Hr
L Rating At 400 F — 1 CFM/sq ft (See Item 3A)	FTH Ratings — 1/4 Hr
	L Rating At Ambient — Less Than Less Than 5.1 L/s/m <sup>2</sup> (See Item 3A)
	L Rating At 204°C — Less Than 5.1 L/s/m <sup>2</sup> (See Item 3A)



**SECTION A-A**

1. Floor Assembly -- Minimum 6-7/8 in. (175 mm) thick, 5 ply cross laminated timber (CLT) panel, labeled CLT 175-5S, Grade E1 in accordance with ANSI/APA PRG 320 as required by Chapter 6 of International Building Code (IBC) for Type IVA, IVB or IVC construction. The required hourly rating of the CLT floor shall be determined in accordance with Chapter 16 of the National Design Specification (NDS). Additional information regarding the use of CLT as permitted in the IBC is located in the XHEZ Guide Information. The indicated or calculated fire resistance rating of the assembly (Type IV A, B or C) to meet or exceed the F rating of the firestop system. CLT Panel to have a max through opening diameter of 9 in. (229 mm) to accommodate the penetrant.
2. Gypsum Board\* - For non-combustible protection of the mass timber assembly. The bottom face of the CLT panel must be protected with 1 layer of 5/8 in. (16 mm) thick Type X Gypsum Board and installed as described in (IBC Sec. 722.7.2.1 for interior surfaces)
3. Firestop Device\* -- Drop-in firestop device installed in core-drilled wood floor assembly in accordance with accompanying installation instructions. 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 in. (25.4 mm) long wood screws and 1 in. steel washers (installed in a triangular fashion through holes provided). The firestop devices shall be installed as detailed in the following table :



**Hilti Firestop Systems**

Reproduced by HILTI, Inc. Courtesy of  
Underwriters Laboratories, Inc.  
September 28, 2022

# System No. F-G-2001

FG 2001

Core Hole In. (mm)	Firestop Device	Nom Diam of Through Penetrant, In. (mm)	Floor Thickness In. (mm) (Min to Max or Nominal)
4 (102)	CFS-DID 2"MD	2 (51) or smaller +	Nom. 6-7/8 (175)
5 (102)	CFS-DID 3"MD	3 (76)	Nom. 6-7/8 (175)
6 (152)	CFS-DID 4"MD	4 (102)	Nom. 6-7/8 (175)
9 (229)	CFS-DID 6"MD	6 (152)	Nom. 6-7/8 (175)
4 (102)	CFS-DID 2"C	2 (51) or smaller +	6-7/8 (175) to 9-1/2 (244)
5 (102)	CFS-DID 3"C	3 (76)	6-7/8 (175) to 9-1/2 (244)
6 (152)	CFS-DID 4"C	4 (102)	6-7/8 (175) to 9-1/2 (244)
9 (229)	CFS-DID 6"C	6 (152)	6-7/8 (175) to 9-1/2 (244)

+ 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"MD, CFS-DID 2"C, CFS-DID 3"MD, CFS-DID 3"C, CFS-DID 4"MD, CFS-DID 4"C, CFS-DID 6"MD, CFS-DID 6"C

3A. Firestop Device\* - Water Barrier Module -- (Optional, Not Shown) - Used in combination with the CFS-DID device (Item 3) and supplied by device manufacturer. Module is threaded onto top of device.

L Rating apply only when water barrier module is used.

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

4. Through Penetrant -- One nonmetallic pipe to be installed within the firestop device. Pipe to be rigidly supported on both sides of floor assembly.

The following types of pipe may be used:

A. Polyvinyl Chloride (PVC) Pipe -- Nom 6 in. (152 mm) diam (or smaller) Schedule 40 solid core or cellular core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping system.

B. Chlorinated Polyvinyl Chloride (CPVC) Pipe -- Nom 6 in. (152 mm) diam (or smaller) SDR 13.5 CPVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping system.

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



**Hilti Firestop Systems**

Reproduced by HILTI, Inc. Courtesy of  
Underwriters Laboratories, Inc.  
September 28, 2022