

UL/cUL SYSTEM NO. F-B-1042

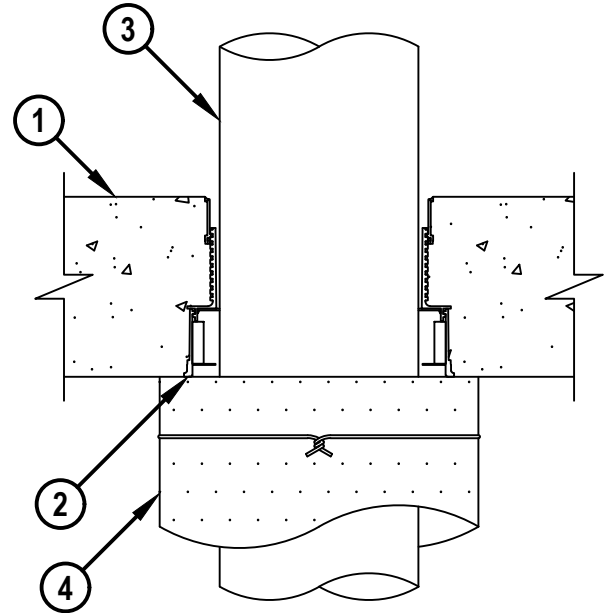
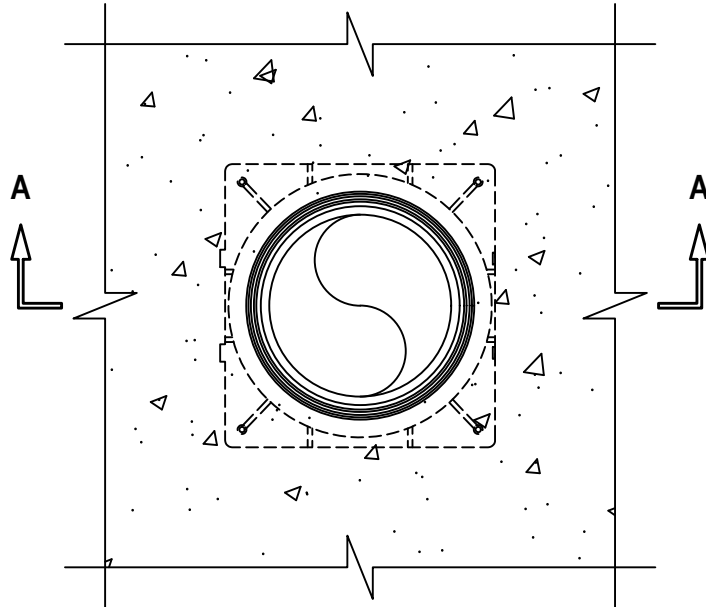
METAL PENETRANT THROUGH CONCRETE FLOOR

F-RATING = 2-HR.

T-RATING = 2-HR.

TOP VIEW

SECTION A-A



FB1042a.092623



HILTI, Inc.
Plano, Texas USA (800) 879-8000

Sheet	1 of 2
Scale	5/32" = 1"
Date	Sep. 26, 2023

Drawing No.

FB
1042a

Saving Lives through Innovation and Education

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METAL PENETRANT THROUGH CONCRETE FLOOR

F-RATING = 2-HR.

T-RATING = 2-HR.

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1. LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE FLOOR ASSEMBLY (MIN. 6" THICK) (2-HR. FIRE-RATING).
2. HILTI CFS-CID U [2", 3", 4", OR 6"] OR CFS-CID U 2" CA CAST-IN FIRESTOP DEVICE CAST OR GROUTED INTO CONCRETE FLOOR (SEE TABLE BELOW) WITH MAXIMUM 2" EXTENSION ABOVE FLOOR.
3. PENETRATING ITEM TO BE ONE OF THE FOLLOWING (ALSO SEE NOTE NO. 1 BELOW) :
 - A. MAXIMUM 6" NOMINAL DIAMETER STEEL PIPE (SCHEDULE 10 OR HEAVIER).
 - B. MAXIMUM 6" NOMINAL DIAMETER CAST OR DUCTILE IRON PIPE.
 - C. MAXIMUM 6" NOMINAL DIAMETER STEEL CONDUIT.
 - D. MAXIMUM 4" NOMINAL DIAMETER STEEL EMT.
4. NOMINAL 2" THICK MINERAL FIBER PIPE INSULATION TO EXTEND MINIMUM 30" BELOW FLOOR ASSEMBLY. PIPE INSULATION TO BE TIGHTLY BUTTED TO BOTTOM OF FLOOR ASSEMBLY AND SECURED WITH 16 GA. STEEL TIE WIRE SPACED MAXIMUM 6" O.C. (SEE NOTE NO. 2 BELOW).

NOMINAL PIPE DIAMETER	PRODUCT DESCRIPTION	T-RATING
1-1/4" TO 2"	CFS-CID U 2", CFS CID U 2" CA	2-HR.
2" TO 3"	CFS-CID U 3"	2-HR.
3" TO 4"	CFS-CID U 4"	2-HR.
4" TO 6"	CFS-CID U 6"	2-HR.

NOTES : 1. PENETRANT MAY RUN VERTICALLY OR TURN 90° HORIZONTALLY BELOW FLOOR.
2. IN ADDITION TO STEEL TIE WIRE, INSULATION SHALL BE WRAPPED WITH A UL APPROVED ALL SERVICE JACKET OR FOIL-SCRIM-KRAFT.
3. WHEN PIPE DIAMETER IS SMALLER THAN INDICATED ABOVE, A MINIMUM 1" THICKNESS HILTI CP 618 FIRESTOP PUTTY STICK OR MINIMUM 4" THICKNESS TIGHTLY PACKED MINERAL WOOL (MIN. 4 PCF DENSITY) SHALL BE APPLIED BETWEEN THE PIPE AND PERIPHERY OF HILTI CAST-IN FIRESTOP DEVICE, FLUSH WITH TOP SURFACE OF DEVICE.



Hilti Firestop Systems

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Sheet	2 of 2
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