

UL/cUL SYSTEM NO. F-A-5083

INSULATED METAL PIPE THROUGH CONCRETE FLOOR

F-RATING = 3-HR.

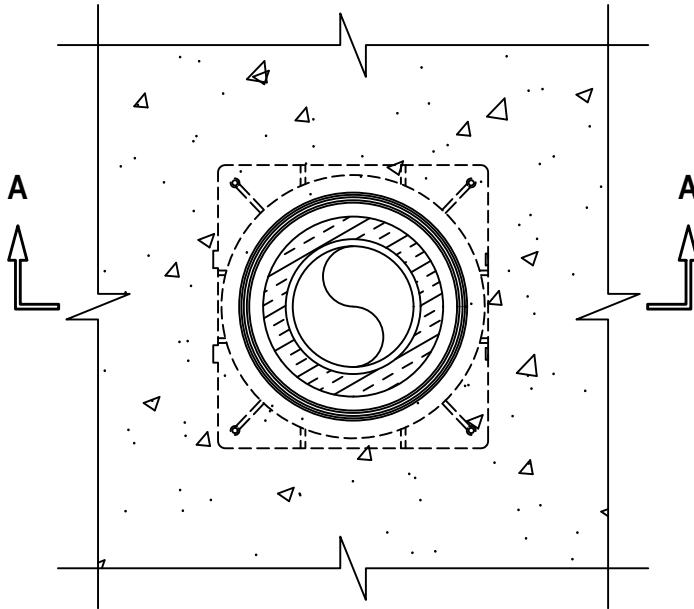
T-RATING = 0-HR., 1/2-HR., 3/4-HR., 1-HR., OR 3-HR. (SEE TABLE BELOW)

L-RATING AT AMBIENT = LESS THAN 1 CFM / SQ FT

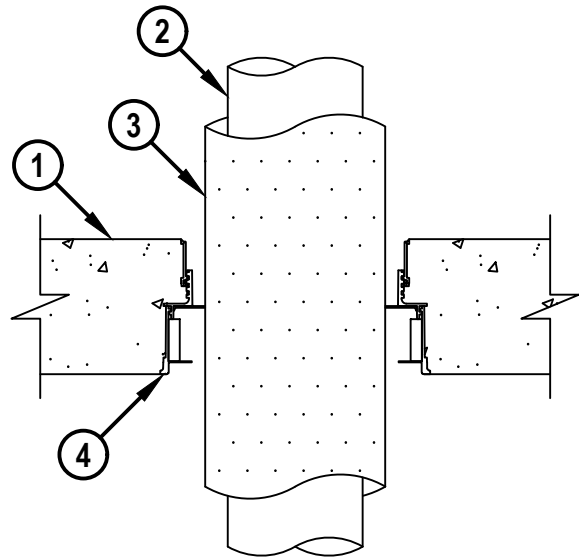
L-RATING AT 400°F = LESS THAN 1 CFM / SQ FT

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TOP VIEW



SECTION A-A



Hilti Firestop Systems

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

Sheet	1 of 2
Scale	5/32" = 1"
Date	Sep. 29, 2023

Drawing No.

**FA
5083a**

Saving Lives through Innovation and Education

INSULATED METAL PIPE THROUGH CONCRETE FLOOR

F-RATING = 3-HR.

T-RATING = 0-HR., 1/2-HR., 3/4-HR., 1-HR., OR 3-HR. (SEE TABLE BELOW)

L-RATING AT AMBIENT = LESS THAN 1 CFM / SQ FT

L-RATING AT 400°F = LESS THAN 1 CFM / SQ FT

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1. LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE FLOOR (MINIMUM 4-1/2" THICK) (3-HR. FIRE-RATING).
2. PENETRATING ITEM TO BE ONE OF THE FOLLOWING (SEE TABLE BELOW) :
 - A. MAXIMUM 4" NOMINAL DIAMETER STEEL PIPE (SCHEDULE 10 OR HEAVIER).
 - B. MAXIMUM 4" NOMINAL DIAMETER CAST OR DUCTILE IRON PIPE.
 - C. MAXIMUM 4" NOMINAL DIAMETER COPPER PIPE OR TUBING (SEE NOTE NO. 2 BELOW).
3. NOMINAL 3/4" OR 1" THICK AB/PVC FLEXIBLE FOAM PIPE INSULATION.
4. 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 WITH MAXIMUM 2" EXTENSION ABOVE FLOOR (SEE TABLE BELOW).

NOM PIPE DIAMETER (SEE NOTE 1)	NOM PIPE COVER-IN. (MM)	FIRESTOP	T (FT, FTH) RATING-HR
1/2 IN. (13 MM)	1 (25)	CFS-CID U 2", CFS-CID U 2" CA	3
1 IN. (25 MM)	3/4 (19)	CFS-CID U 3"	1/2
1 IN. (25 MM)	1 (25)	CFS-CID U 3"	3/4
1 IN. (25 MM)	1 (25)	CFS-CID U 4"	3/4
2 IN. (51 MM)	3/4 (19) OR 1 (25)	CFS-CID U 4"	1
2-1/2 IN. (63.5 MM)	3/4 (19) OR 1 (25)	CFS-CID U 4"	3/4
4 IN. (102 MM)	3/4 (19) OR 1 (25)	CFS-CID U 6"	3/4

NOTES : 1. WHEN PIPE SIZES ARE LESS THAN INDICATED ABOVE, MINIMUM 4" THICKNESS MINERAL WOOL (MIN. 4 PCF DENSITY) MAY BE TIGHTLY PACKED BETWEEN THE PIPE AND PERIPHERY OF CAST-IN DEVICE, FLUSH WITH THE TOP SURFACE OF DEVICE, AND THE T-RATING OF THE SYSTEM IS 0-HR.

2. FOR NOMINAL 4" COPPER PIPES ONLY, MINIMUM 4" THICKNESS MINERAL WOOL (MIN. 4 PCF DENSITY) IS REQUIRED.

3. [OPTIONAL] MINIMUM 1/4" DEPTH HILTI CFS-S SIL GG FIRESTOP SILICONE SEALANT OR HILTI CFS-S SIL SL FIRESTOP SILICONE SEALANT MAY BE INSTALLED FLUSH WITH TOP SURFACE OF FLOOR.



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Sheet 2 of 2

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