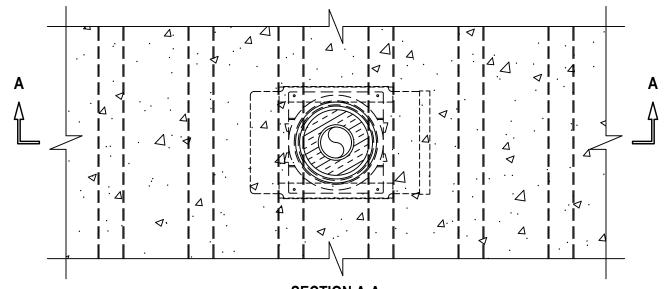
UL/cUL SYSTEM NO. F-A-5070

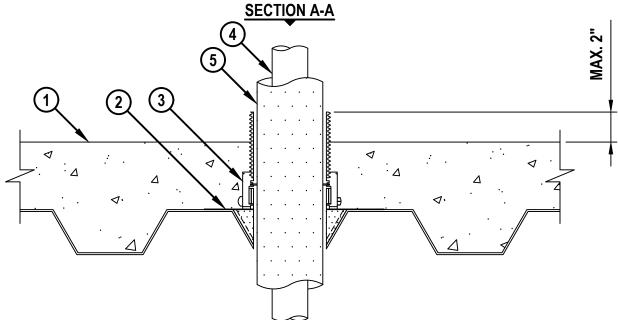
INSULATED METAL PIPE THROUGH CONCRETE FLOOR OVER METAL DECKING ASSEMBLY

F-RATING = 2-HR. OR 3-HR.

T-RATING = 3/4-HR., 1-HR., 1-3/4-HR., 2-1/2-HR., OR 3-HR. (SEE TABLE BELOW)
L-RATING AT AMBIENT = SEE TABLE BELOW
L-RATING AT 400°F = SEE TABLE BELOW

TOP VIEW





- 1. LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE FLOOR OVER METAL DECKING ASSEMBLY (UL/cUL CLASSIFIED D900 SERIES) WITH 2" OR 3" FLUTED DECKS :
 - A. MINIMUM 2-1/2" THICK (2-HR FIRE-RATING).
 - B. MINIMUM 4-1/2" THICK (3-HR FIRE-RATING).



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Scale	5/32" = 1"
Date	Sept. 22, 2025

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Saving Lives through Innovation and Education

UL/cUL SYSTEM NO. F-A-5070

INSULATED METAL PIPE THROUGH CONCRETE FLOOR OVER METAL DECKING ASSEMBLY

F-RATING = 2-HR. OR 3-HR.

T-RATING = 3/4-HR., 1-HR., 1-3/4-HR., 2-1/2-HR., OR 3-HR. (SEE TABLE BELOW)
L-RATING AT 400°F = SEE TABLE BELOW
L-RATING AT 400°F = SEE TABLE BELOW

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- 2. HILTI CFS-CID MD PLT [W2" OR W3"] METAL DECK PLATFORM SECURED TO DECK WITH ONE FASTENER IN EACH CORNER (SEE NOTE BELOW).
- 3. HILTI CFS-CID MD [M, P, OR PX] [2", 3", OR 4"]/[2.5" OR 4"] FIRESTOP CAST-IN DEVICE FOR METAL DECK SECURED TO HILTI CFS-CID MD PLT METAL DECK PLATFORM WITH SCREWS. THE 2.5" HEIGHT DEVICES ARE INTENDED FOR A 2-1/2" CONCRETE TOPPING AND THE 4" HEIGHT DEVICES ARE FOR CONCRETE TOPPINGS GREATER THAN 2-1/2" THICK.
- 4. PENETRATING ITEM TO BE ONE OF THE FOLLOWING (SEE NOTE NO. 3 BELOW):
 - A. MAXIMUM 2" NOMINAL DIAMETER STEEL PIPE (SCHEDULE 10 OR HEAVIER).
 - B. MAXIMUM 2" NOMINAL DIAMETER COPPER PIPE OR TUBING.
- 5. NOMINAL 1" AND 1-1/2" THICK GLASS-FIBER PIPE INSULATION.

			T, FT AND FTH RATINGS, HR			
NOM PIPE DIAM, IN. (MM) (SEE NOTE 1 AND 2)	NOM PIPE COVERING THICKNESS, IN. (MM)	FIRESTOP DEVICE	MIN 2-1/2 IN. (64 MM) CONCRETE FLOOR TOPPING (ITEM 1A)	MIN 4-1/2 IN. (114 MM) CONCRETE FLOOR TOPPING (ITEM 1A) SEE FOOTNOTE ++	L RATING AT AMBIENT CFM/SQ FT (L/S/M²)	L RATING AT 400°F (204°C) CFM/SQ FT (L/S/M²)
1/2 (13)	1 (25)	CFS-CID MD M 2", CFS-CID MD P(X) 2"	3/4	2-1/2	3 (15.2)	1.5 (7.6)
1 (25)	1 (25)	CFS-CID MD M 3", CFS-CID MD P(X) 3"	3/4	1-3/4	3 (15.2)	1.5 (7.6)
1 (25) (SEE NOTE 1)	1-1/2 (38)	CFS-CID MD M 4", CFS-CID MD P(X) 4"	3/4	3	N/A	N/A
2 (51)	1 (25)	CFS-CID MD M 4"	1	1-3/4	3 (15.2)	1.5 (7.6)
2 (51)	1 (25)	CFS-CID MD P(X) 4"	1	2-3/4	3 (15.2)	1.5 (7.6)

- NOTES: 1. WHEN USING A NOMINAL 1" DIAMETER PIPE WITH 1-1/2" THICK INSULATION IN A 4" DEVICE, TIGHTLY PACK A MINIMUM 2" THICKNESS OF MINERAL WOOL (MIN. 4 PCF DENSITY) FLUSH WITH THE TOP OF FIRESTOP DEVICE.
 - 2. FOR MINIMUM 4-1/2" CONCRETE FLOOR THICKNESS, 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.
 - 3. FOR HILTI CFS-CID MD M OR CFS-CID MD P ONLY, AS AN ALTERNATIVE TO CFS-CID MD PLT METAL DECK PLATFORM (ITEM 2), THE HILTI METAL DECK ADAPTOR KIT MAY BE USED.



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