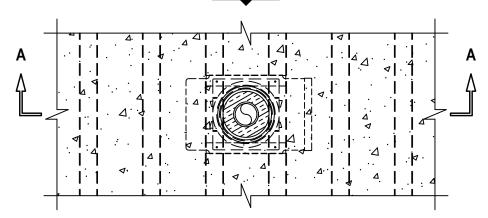
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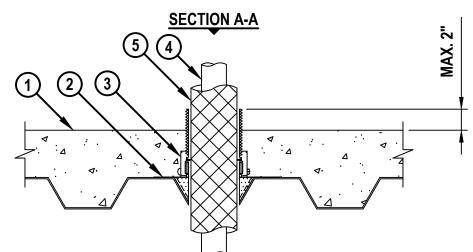
INSULATED METAL PIPE THROUGH CONCRETE FLOOR OVER METAL DECKING ASSEMBLY

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

T-RATING = 0-HR., 1/2-HR., 3/4-HR., 1-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).
- 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.
- 4. PENETRATING ITEM TO BE ONE OF THE FOLLOWING (SEE NOTE NO. 3 BELOW):
 - A. MAXIMUM 2-1/2" NOMINAL DIAMETER STEEL PIPE (SCHEDULE 10 OR HEAVIER).
 - B. MAXIMUM 2-1/2" NOMINAL DIAMETER COPPER PIPE OR TUBING.
- 5. NOMINAL 3/4" OR 1" THICK AB/PVC FLEXIBLE FOAM PIPE INSULATION.



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Scale	7/64" = 1"
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Saving Lives through Innovation and Education

UL/cUL SYSTEM NO. F-A-5069

INSULATED METAL PIPE THROUGH CONCRETE FLOOR OVER METAL DECKING ASSEMBLY

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

T-RATING = 0-HR., 1/2-HR., 3/4-HR., 1-HR., OR 3-HR. (SEE TABLE BELOW)
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			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 2.5 IN. (63.5 MM) CONCRETE FLOOR TOPPING (ITEM 1A)	MIN 4.5 IN. (114 MM) CONCRETE FLOOR TOPPING (ITEM 1A) (SEE FOOTNOTE)	L RATING AT AMBIENT CFM/SQ FT (L/S/M²)	L RATING AT 400F (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	3	LESS THAN 1 (LESS THAN 5.1)	LESS THAN 1 (LESS THAN 5.1)
1 (25)	3/4 (19)	CFS-CID MD M 3", CFS-CID MD P(X) 3"	1/2	N/A	LESS THAN 1 (LESS THAN 5.1)	LESS THAN 1 (LESS THAN 5.1)
1 (25)	1 (25)	CFS-CID MD M 3", CFS-CID MD P(X) 3"	1/2	3/4	LESS THAN 1 (LESS THAN 5.1)	LESS THAN 1 (LESS THAN 5.1)
1 (25)	1 (25)	CFS-CID MD M 4", CFS-CID MD P(X) 4"	N/A	3/4	N/A	N/A
1 (25) (SEE NOTE 1)	1 (25)	CFS-CID MD M 4", CFS-CID MD P(X) 4"	1/2	N/A	N/A	N/A
2 (51)	1 (25)	CFS-CID MD M 4", CFS-CID MD P(X) 4"	1/2	N/A	LESS THAN 1 (LESS THAN 5.1)	LESS THAN 1 (LESS THAN 5.1)
2 (51)	3/4 (19) or 1 (25)	CFS-CID MD M 4", CFS-CID MD P(X) 4"	1/2	1	LESS THAN 1 (LESS THAN 5.1)	LESS THAN 1 (LESS THAN 5.1)
2-1/2 (63.5)	3/4 (19) or 1 (25)	CFS-CID MD M 4", CFS-CID MD P(X) 4"	N/A	3/4	LESS THAN 1 (LESS THAN 5.1)	LESS THAN 1 (LESS THAN 5.1)

- 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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