

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) L-RATING AT AMBIENT = SEE TABLE BELOW L-RATING AT 400°F = SEE TABLE BELOW

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NOM PIPE DIAM, IN. (MM) (SEE NOTE 1 AND 2)	NOM PIPE COVERING THICKNESS, IN. (MM)	FIRESTOP DEVICE	T, FT AND FTH MIN 2.5 IN. (63.5 MM) CONCRETE FLOOR TOPPING (ITEM 1A)	RATINGS, HR 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.						
HILTI, Inc. Plano, Texas USA (800) 879-8000					Sheet 2 Scale	of 2 Drawing No.

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Date

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