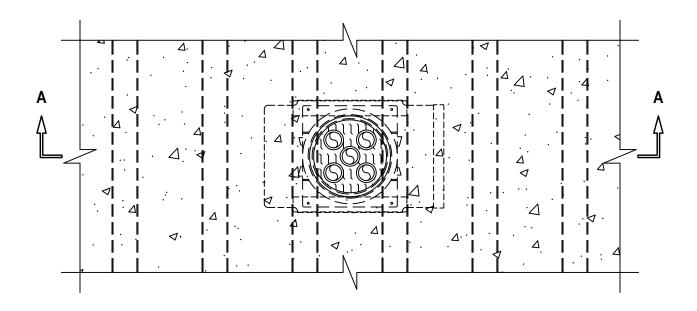
UL/cUL SYSTEM NO. F-A-1193

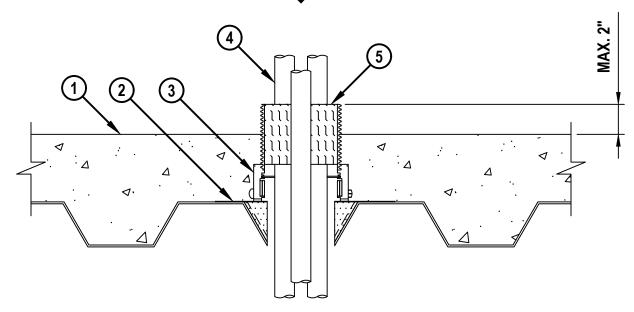
MULTIPLE METAL PIPES THROUGH CONCRETE FLOOR OVER METAL DECKING ASSEMBLY

F-RATING = 2-HR. OR 3-HR. T-RATING = 1/2-HR., 1-HR., OR 2-HR.

TOP VIEW



SECTION A-A





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

FA 1193d

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UL/cUL SYSTEM NO. F-A-1193

MULTIPLE METAL PIPES THROUGH CONCRETE FLOOR OVER METAL DECKING ASSEMBLY

F-RATING = 2-HR. OR 3-HR. T-RATING = 1/2-HR., 1-HR., OR 2-HR.

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- 1. LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE FLOOR (MINIMUM 4-1/2" THICK) OVER METAL DECKING ASSEMBLY (UL/cul classified D900 Series) with 2" or 3" fluted Decks (2-Hr. or 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"]/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 (MAX. QTY. = 5). A MAXIMUM OF PENETRANT SHALL EXCEED 1-1/2":
 - A. MAXIMUM 3" NOMINAL DIAMETER STEEL PIPE (SCHEDULE 10 OR HEAVIER).
 - B. MAXIMUM 3" NOMINAL DIAMETER CAST OR DUCTILE IRON PIPE.
 - C. MAXIMUM 3" NOMINAL DIAMETER COPPER PIPE OR TUBING.
 - D. MAXIMUM 3" NOMINAL DIAMETER STEEL CONDUIT OR EMT.
- 5. MINIMUM 2" OR 4" THICKNESS MINERAL WOOL (MIN. 4 PCF DENSITY) TIGHTLY PACKED INTO DEVICE COMPLETELY FILLING ANNULAR SPACE AROUND METAL PENETRANTS (SEE TABLE BELOW).

	MAX PIPE DIAMETER			MINERAL	ANNULAR SPACE	
F-RATING, HR.	STEEL, CAST IRON, STEEL CONDUIT, EMT	COPPER	T-RATING, HR.	WOOL THICKNESS	BETWEEN PIPES	TO EDGE OF DEVICE
2	3"	3"	1/2	4"	MIN 1/8"	MIN 1/2", MAX 2"
3	1"	1"	2	4"	MIN 1", MAX 2"	MIN 3/4", MAX 2"
3	1-1/2"	1"	1	2"	MIN 1/4", MAX 1-1/2"	MIN 1/4", MAX 1-1/2"

NOTES: 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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