UL SYSTEM NO. F-A-2054

PLASTIC PIPE THROUGH CONCRETE FLOOR/CONCRETE OVER METAL DECKING

F-RATING = 3-HR.

T-RATING = 0-HR. OR 3-HR.

L-RATING AT AMBIENT = LESS THAN 1 CFM / SQ FT L-RATING AT 400°F = LESS THAN 1 CFM / SQ FT W-RATING = CLASS I (SEE NOTES NO. 3 AND 4 BELOW)

M-RATING = SEE M-RATING TABLE



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

Sheet	1 of 3
Scale	11/64" = 1"
Date	Dec. 02, 2024

FA 2054s

Saving Lives through Innovation and Education

A2054s 120224

UL SYSTEM NO. F-A-2054

PLASTIC PIPE THROUGH CONCRETE FLOOR/CONCRETE OVER METAL DECKING

F-RATING = 3-HR.

T-RATING = 0-HR. OR 3-HR.

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

W-RATING = CLASS I (SEE NOTES NO. 3 AND 4 BELOW)

M-RATING = SEE M-RATING TABLE

FA2054s 12022

- 1. CONCRETE FLOOR ASSEMBLY (3-HR. FIRE-RATING):
 - A. LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE FLOOR (MINIMUM 4-1/2" THICK).
 - B. STEEL FLOOR UNIT/FLOOR ASSEMBLY LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE FLOOR (MINIMUM 4-1/2" THICK) OVER METAL DECKING.
- 2. PENETRATING ITEM TO BE ONE OF THE FOLLOWING (SEE TABLE BELOW):
 - A. MAXIMUM 6" NOMINAL DIAMETER PVC PLASTIC PIPE (CELLULAR AND SOLID CORE).
 - B. MAXIMUM 6" NOMINAL DIAMETER CPVC PLASTIC PIPE (CLOSED PIPING SYSTEM ONLY).
 - C. MAXIMUM 6" NOMINAL DIAMETER RIGID NON-METALLIC CONDUIT (RNC).
 - D. MAXIMUM 4" NOMINAL DIAMETER PEX TUBING (SDR 9) (CLOSED PIPING SYSTEM ONLY).
- 3. HILTI CP 680-P OR CP 680-PX CAST-IN FIRESTOP DEVICE, CAST OR GROUTED INTO CONCRETE FLOOR (SEE TABLE BELOW).
- 4. [NOT SHOWN] HILTI IPS OR CPS TOP SEAL PLUG INSTALLED FLUSH WITH TOP SIDE OF DEVICE AROUND NOMINAL PIPE SIZES 1/2" TO 1-1/2". TOP SEALS ARE OPTIONAL ON 1-1/2" DIAMETER PIPES.



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

01 1	
Sheet	2 of 3
Scale	
Ocarc	-
Date	
Date	Dec. 02, 2024

FA 2054s

UL SYSTEM NO. F-A-2054

PLASTIC PIPE THROUGH CONCRETE FLOOR/CONCRETE OVER METAL DECKING

F-RATING = 3-HR.

T-RATING = 0-HR. OR 3-HR.

L-RATING AT AMBIENT = LESS THAN 1 CFM / SQ FT L-RATING AT 400°F = LESS THAN 1 CFM / SQ FT W-RATING = CLASS I (SEE NOTES NO. 3 AND 4 BELOW)

M-RATING = SEE M-RATING TABLE

FA2054s 120224

M-RATING TABLE							
MOVEMENT DIRECTION	PENETRANT ITEM	NOMINAL PENETRANT DIAMETER	DEVICE SIZE	MOVEMENT	SEALANT DEPTH	L-RATING	W-RATING
Υ	3A	2"	2"	100%**	N/A	N/A	N/A
Z	3A	2"	2"	3.21 IN.	N/A	N/A	N/A

**PERCENTAGE MOVEMENT BASED ON THE MINIMUM DISTANCE BETWEEN OUTER DIAMETER OF PENETRANT AND INSIDE DIMENSIONS OF THE FIRESTOP DEVICE.

NOMINAL PIPE DIAMETER	PRODUCT DESCRIPTION	T-RATING
1/2" TO 2"	CP 680-P 2" OR CP 680-PX 2"	3-HR.
3"	CP 680-P 3" OR CP 680-PX 3"	3-HR.
3"	CP 680-P 4"	3-HR.
4"	CP 680-P 4"	3-HR.
6"	CP 680-P 6"	0-HR.

- NOTES: 1. CLOSED OR VENTED PIPING SYSTEMS (PVC, RNC = SCH 40; CPVC = SDR 11 OR SDR 13.5).
 - 2. FOR CONCRETE FLOOR OVER METAL DECKING APPLICATIONS, A METAL DECK ADAPTER KIT IS REQUIRED.
 - 3. W-RATING FOR TOP SEAL ONLY APPLIES TO THE IPS TOP SEAL PLUG AND 2" PIPES, AND TO CPS TOP SEAL PLUGS WITH 1/2" TO 2" PIPES.
 - 4. WATER BARRIER MODULES MAY BE THREADED ON TOP OF CAST-IN FIRESTOP DEVICES FOR NOMINAL 2", 3", 4", AND 6" PLASTIC PIPES (LISTED ABOVE). W-RATING WITH WATER BARRIER MODULE ONLY APPLIES WHEN DIAMETER OF PIPE EQUALS SIZE OF MODULE AND WHEN PIPE IS INSTALLED FROM BOTTOM OF DEVICE.
 - 5. L-RATING APPLIES ONLY WHEN DIAMETER OF PIPE EQUALS SIZE OF DEVICE (3" PIPE IN 3" DEVICE, ETC.).



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

Sheet	3 of 3
Scale	-
Date	Dec. 02, 2024

FA 2054s