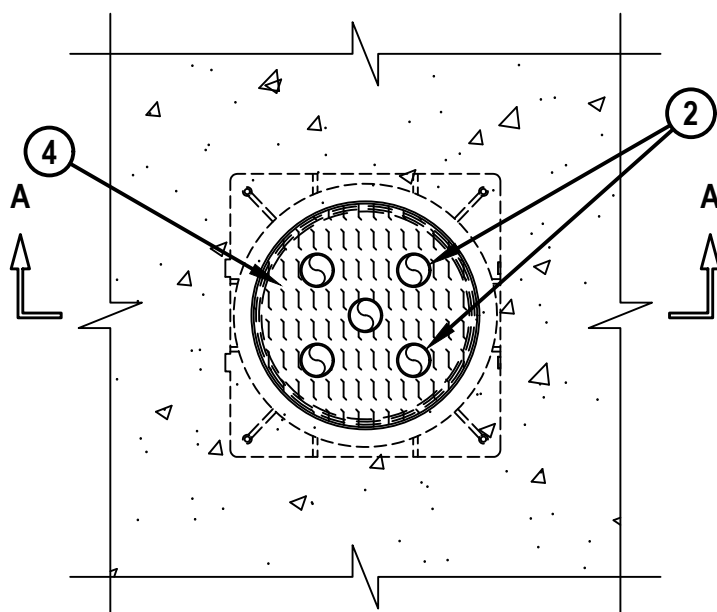
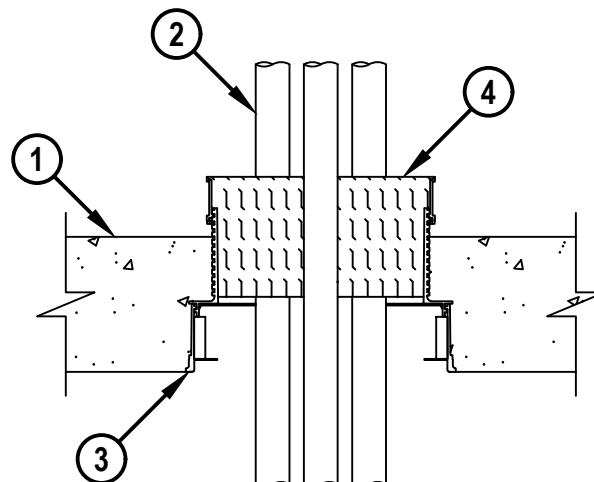


MULTIPLE METAL PENETRANTS THROUGH CONCRETE FLOOR

F-RATING = 3-HR.

T-RATING = 2-HR.

TOP VIEW**SECTION A-A**

1. LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE FLOOR (MINIMUM 4-1/2" THICK) (3-HR. FIRE-RATING).
2. PENETRATING ITEMS TO BE ANY COMBINATION OF THE FOLLOWING (MAX. QTY. = 5) :
 - A. MAXIMUM 1" NOMINAL DIAMETER STEEL PIPE (SCHEDULE 5 OR HEAVIER).
 - B. MAXIMUM 1" NOMINAL DIAMETER CAST OR DUCTILE IRON PIPE.
 - C. MAXIMUM 1" NOMINAL DIAMETER COPPER PIPE OR TUBING.
 - D. MAXIMUM 1" NOMINAL DIAMETER STEEL CONDUIT.
 - E. MAXIMUM 1" NOMINAL DIAMETER STEEL EMT.
3. HILTI CFS-CID U [2", 3", 4", OR 6"] OR CFS-CID U 2" CA CAST-IN FIRESTOP DEVICE CAST OR GROUTED INTO CONCRETE FLOOR WITH MAXIMUM 2" EXTENSION ABOVE FLOOR.
4. MINIMUM 4" THICKNESS MINERAL WOOL (MINIMUM 4 PCF DENSITY) TIGHTLY PACKED INTO DEVICE, COMPLETELY FILLING ANNULAR SPACE AROUND METAL PENETRANTS.

NOTES : 1. ANNULAR SPACE BETWEEN PENETRANTS = MINIMUM 1", MAXIMUM 2".
 2. ANNULAR SPACE BETWEEN PENETRANTS AND FIRESTOP DEVICE = MINIMUM 3/4", MAXIMUM 2".

HILTI
 Hilti Firestop Systems

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

Sheet	1 of 1
Scale	5/32" = 1"
Date	Sep. 26, 2023

Drawing No.

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