ENGINEERING JUDGMENT FIRESTOP DETAIL

THIS ENGINEERING JUDGMENT REPRESENTS A FIRESTOP SYSTEM THAT WOULD BE EXPECTED TO PASS THE STATED RATINGS IF TESTED

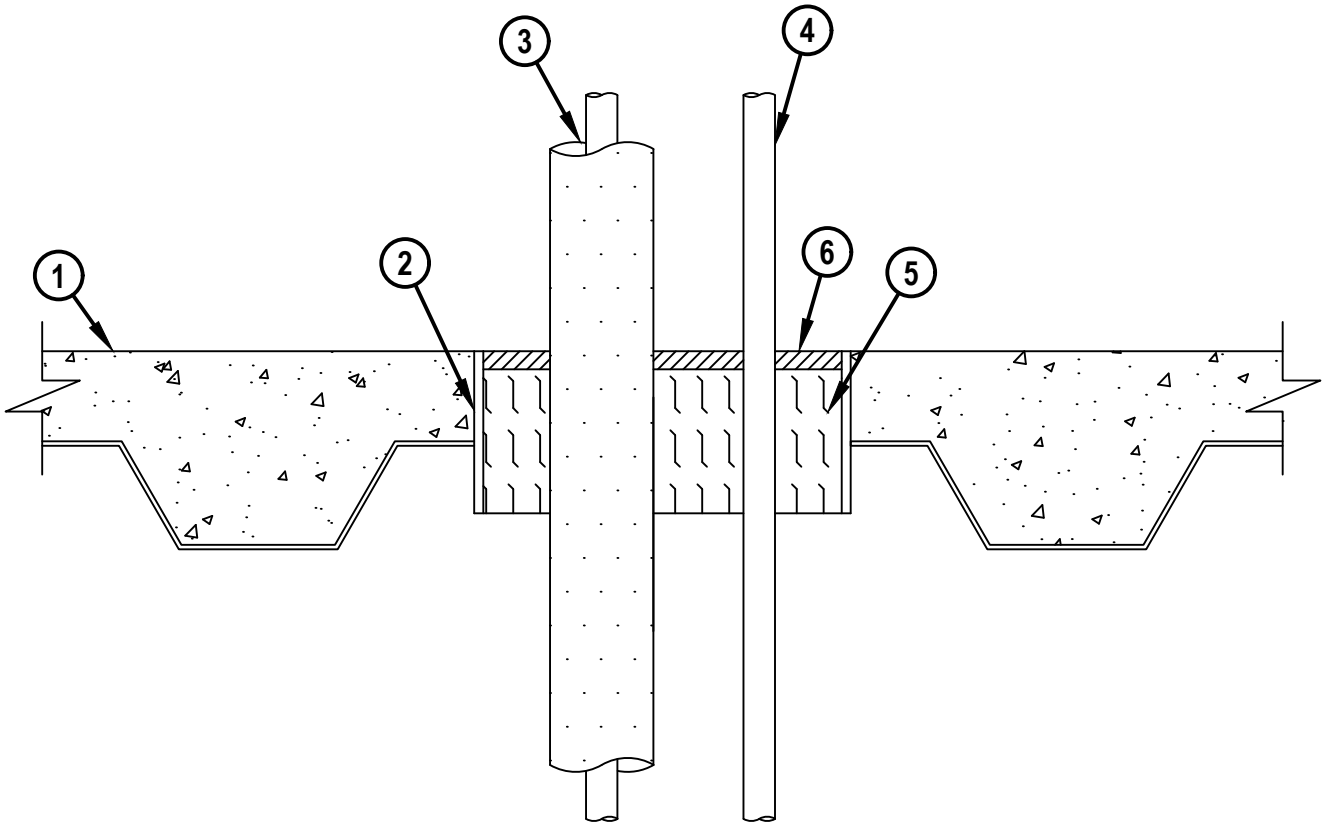
PROJECT : SALINAS HIGH SCHOOL
ADDRESS : SALINAS, CALIFORNIA

ISSUED TO : VALS PLUMBING & HEATING

Ratings

F-RATING = 1-HR.

CROSS-SECTIONAL VIEW



HILTI, Inc. Plano, Texas USA (800) 879-8000		*Sheet* **1 of 2**	*Drawing No.* **668800b**
Designed by Hilti FPE Madi Holberg	*Drafter*	*Scale* **3/16" = 1"**	
		Date **Mar. 11, 2025**	

Saving Lives through Innovation and Education

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1. CONCRETE FLOOR OVER METAL DECKING ASSEMBLY (MINIMUM 2-1/2" THICK) (1-HR. FIRE-RATING).
2. MAXIMUM 10" NOMINAL DIAMETER SHEET METAL SLEEVE (MIN. 28 GA.) WITH 1" OVERLAP ALONG LONGITUDINAL SEAM. SLEEVE TO BE RIGIDLY SUPPORTED AND SIZED TO ACCOMMODATE FIRESTOP MATERIAL.
3. ONE OR MORE MAXIMUM 3/4" NOMINAL DIAMETER COPPER PIPE WITH MAXIMUM 3/4" THICK EPDM PIPE INSULATION.
4. MAXIMUM 1/2" NOMINAL DIAMETER STEEL CONDUIT OR STEEL EMT.
5. MINIMUM 4" THICKNESS MINERAL WOOL (MIN. 4 PCF DENSITY) TIGHTLY PACKED, RECESSED TO ACCOMMODATE SEALANT.
6. MINIMUM 1/2" DEPTH HILTI FS-ONE MAX INTUMESCENT FIRESTOP SEALANT.

NOTES :
1. MAXIMUM DIAMETER OF OPENING = 10".
2. ANNULAR SPACE BETWEEN PENETRANTS AND PERIPHERY OF OPENING (INSULATED) = MINIMUM 1/2".
3. ANNULAR SPACE BETWEEN PENETRANTS AND PERIPHERY OF OPENING (METALLIC) = MINIMUM 0".
4. ANNULAR SPACE BETWEEN PENETRANTS = MINIMUM 1/2".
5. [NOT SHOWN] WHEN ANNULAR SPACE IS 0", APPLY MINIMUM 1/2" BEAD HILTI FS-ONE MAX INTUMESCENT FIRESTOP SEALANT AT POINT OF CONTACT.

Referenced Tested Systems
(REFERENCE : UL/cUL SYSTEM NO. C-AJ-8143, C-AJ-8099, W-L-8141, & C-AJ-1155)

Project Application Details
CS0288380

Applicable Test Method
UL 1479

HILTI

HILTI, Inc.
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Madi Holberg

Drafter

Sheet **2 of 2**

Scale **-**

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