

UL SYSTEM NO. C-AJ-2898

PLASTIC PIPE THROUGH CONCRETE FLOOR/WALL OR BLOCK WALL ASSEMBLY

F-RATING = 3-HR.

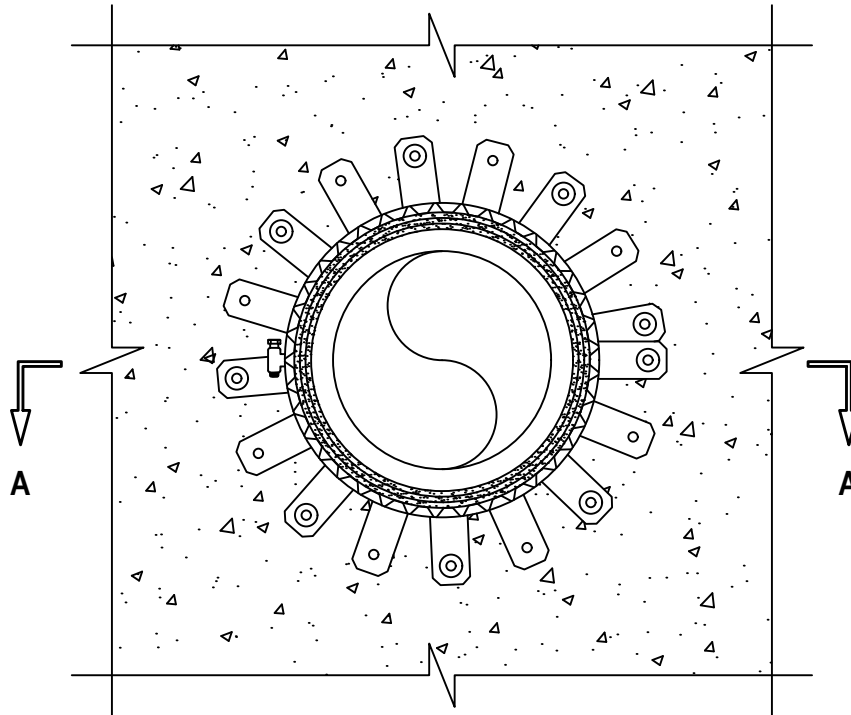
T-RATING = 3-HR.

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

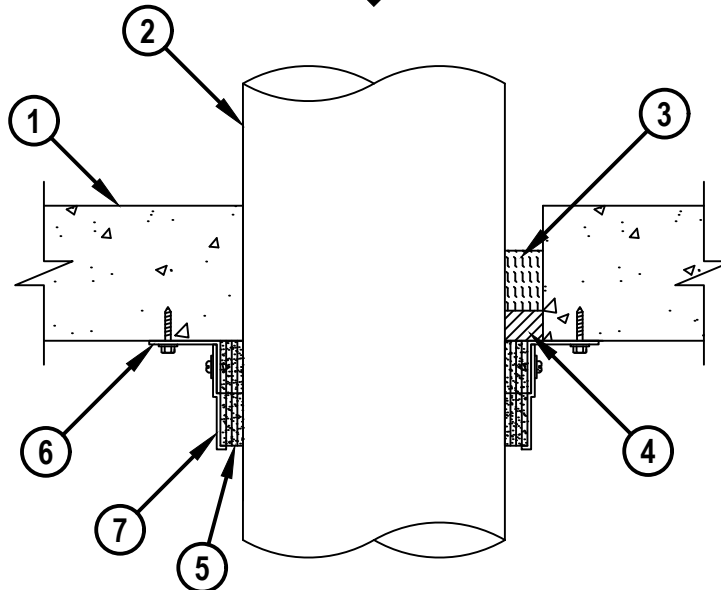
L-RATING AT 400°F = LESS THAN 1 CFM / SQ FT

CAJ2898b.072221

BOTTOM VIEW



SECTION A-A



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

Sheet 1 of 2
Scale 5/32" = 1"
Date July 22, 2021

Drawing No.
**CAJ
2898b**

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1. CONCRETE FLOOR OR WALL ASSEMBLY (3-HR. FIRE-RATING) :
 - A. LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE FLOOR OR WALL (MINIMUM 4-1/2" THICK).
 - B. ANY UL CLASSIFIED CONCRETE BLOCK WALL.
2. MAXIMUM 8" NOMINAL DIAMETER POLYBUTYLENE (PB) PLASTIC PIPE (SDR 11) FOR USE IN CLOSED PIPING SYSTEMS.
3. MINIMUM 2" THICKNESS MINERAL WOOL (MIN. 4 PCF DENSITY) TIGHTLY PACKED, RECESSED TO ACCOMMODATE SEALANT.
4. MINIMUM 1" DEPTH HILTI FS-ONE MAX INTUMESCENT FIRESTOP SEALANT.
5. HILTI CP 648E WRAP STRIP (NOMINAL 3/16" THICK x 1-3/4" WIDE) CONTINUOUSLY WRAPPED AROUND THE OUTER CIRCUMFERENCE OF THE PIPE, COVERING FOUR TIMES, WITH ENDS BUTTED AND HELD IN PLACE WITH TAPE. BUTTED ENDS IN SUCCESSIVE LAYER SHALL BE OFFSET. TWO STACKS OF 4 LAYERS SHALL BE INSTALLED AND BUTTED TIGHTLY TO BOTTOM SURFACE OF FLOOR.
6. FIRST HILTI RETAINING COLLAR SHALL BE WRAPPED AROUND TOP LAYER OF WRAP STRIPS WITH ENDS OVERLAPPING 2" AND SECURED WITH TWO NO. 8 SHEET METAL SCREWS. SECURE EVERY OTHER TAB OF RETAINING COLLAR TO BOTTOM SURFACE OF FLOOR WITH 1/4" x 1-1/4" LONG STEEL EXPANSION BOLTS, 3/16" x 1-1/2" LONG CONCRETE SCREW ANCHORS, MIN. 0.145" x 1-1/4" POWDER ACTUATED FASTENERS WITH 1-7/16" DIAMETER STEEL WASHER, 1/4" x 1-1/4" HILTI KWIK-CON II+ CONCRETE SCREW ANCHOR, 1/4" x 1-3/4" HILTI KWIK-BOLT 3 STEEL EXPANSION ANCHOR, OR HILTI X-DNI 27 P8 S15 POWDER ACTUATED FASTENERS WITH INTEGRATED WASHER.
7. SECOND HILTI RETAINING COLLAR SHALL BE WRAPPED AROUND BOTTOM LAYER OF WRAP STRIPS WITH ENDS OVERLAPPING 2" AND SECURED WITH FOUR NO. 8 SHEET METAL SCREWS. SECURE EVERY OTHER TAB TO FIRST RETAINING COLLAR WITH ONE NO. 8 SHEET METAL SCREW.

NOTES : 1. MAXIMUM DIAMETER OF OPENING = 10".
2. ANNULAR SPACE = MINIMUM 0", MAXIMUM 1-1/4".
3. HILTI CP 648E WRAP STRIP WITH RETAINING COLLAR AND HILTI FS-ONE MAX INTUMESCENT FIRESTOP SEALANT ARE REQUIRED ON EACH SIDE OF A WALL ASSEMBLY.



Hilti Firestop Systems

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