UL/cUL SYSTEM NO. C-AJ-1155

METAL PIPE THROUGH CONCRETE FLOOR/WALL OR BLOCK WALL

F-RATING = 2-HR. OR 3-HR.

T-RATING = 0-HR.

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

L-RATING AT 400°F = 4 CFM / SQ FT

W-RATING = CLASS 1 (SEE NOTE NO. 5 BELOW)

A A 1 6 2

- 1. CONCRETE FLOOR OR WALL ASSEMBLY (2-HR. OR 3-HR FIRE-RATING):
 - A. LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE FLOOR OR WALL (MINIMUM 4-1/2" THICK).
 - B. ANY UL/cUL CLASSIFIED CONCRETE BLOCK WALL.
- 2. [OPTIONAL] MAXIMUM 32" NOMINAL DIAMETER STEEL PIPE SLEEVE (SCHEDULE 40 OR HEAVIER).
- 3. PENETRATING ITEM TO BE ONE OF THE FOLLOWING:
 - A. MAXIMUM 20" NOMINAL DIAMETER STEEL PIPE (SCHEDULE 10 OR HEAVIER).
 - B. MAXIMUM 20" NOMINAL DIAMETER CAST IRON PIPE.
 - C. MAXIMUM 6" NOMINAL DIAMETER COPPER PIPE.
 - D. MAXIMUM 6" NOMINAL DIAMETER STEEL CONDUIT.
 - E. MAXIMUM 4" NOMINAL DIAMETER EMT.
- 4. MINIMUM 4" THICKNESS MINERAL WOOL (MIN. 4 PCF DENSITY) TIGHTLY PACKED.
- 5. MINIMUM 1/2" DEPTH HILTI FS-ONE MAX INTUMESCENT FIRESTOP SEALANT.
- 6. MINIMUM 1/2" CROWN HILTI FS-ONE MAX INTUMESCENT FIRESTOP SEALANT APPLIED AT POINT OF CONTACT.
 - NOTES: 1. MAXIMUM DIAMETER OF OPENING = 32".
 - 2. ANNULAR SPACE [FOR 3-HR. F-RATING] = MINIMUM 0", MAXIMUM 2-1/4".
 - 3. ANNULAR SPACE [FOR 2-HR. F-RATING] = MINIMUM 0", MAXIMUM 12".
 - 4. MINIMUM 1/2" DEPTH HILTI FS-ONE MAX INTUMESCENT FIRESTOP SEALANT IS REQUIRED ON BOTH SIDES OF A WALL ASSEMBLY.
 - 5. FOR W-RATING, MAXIMUM ANNULAR SPACE IS 1-7/8" AND AN ADDITIONAL FILM SHALL BE APPLIED OVER SLEEVE (WHEN USED) LAPPING MINIMUM 1/2" ONTO FLOOR.



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

Sheet	1 of 1
Scale	1/16" = 1"
Date	Apr. 13, 2016

CAJ 1155s