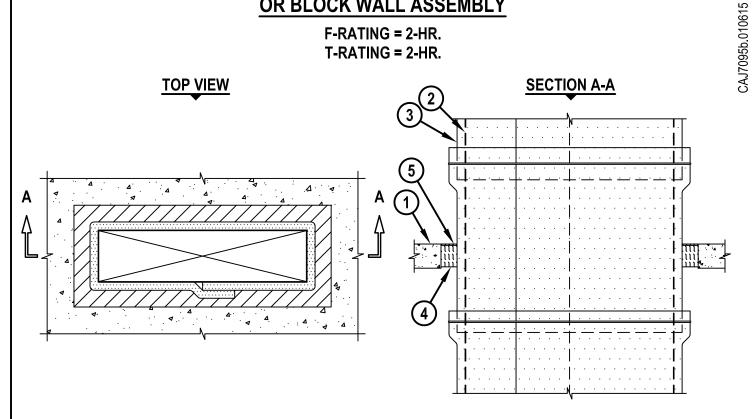
UL/cUL SYSTEM NO. C-AJ-7095

INSULATED DUCT (THERMAL CERAMICS) THROUGH CONCRETE FLOOR/WALL OR BLOCK WALL ASSEMBLY

F-RATING = 2-HR. T-RATING = 2-HR.



- 1. CONCRETE FLOOR OR WALL ASSEMBLY (2-HR. FIRE-RATING):
 - A. LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE FLOOR (MINIMUM 4-1/2" THICK).
 - B. LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE WALL (MINIMUM 4-3/4" THICK).
 - C. ANY UL/cUL CLASSIFIED CONCRETE BLOCK WALL.
- 2. STEEL AIR DUCT (MIN. 0.030" THICK) WITH A MAXIMUM WIDTH TO HEIGHT RATIO OF 4:1, WITH A MAXIMUM DIMENSION OF 39", AND CONSTRUCTED IN ACCORDANCE WITH SMACNA HVAC STANDARDS (SEE NOTE NO. 3 BELOW).
- 3. NOMINAL 1-1/2" THICK FIREMASTER® FAST WRAP+ MANUFACTURED BY THERMAL CERAMICS INSTALLED IN ACCORDANCE WITH VENTILATION ASSEMBLY NO. V-19.
- 4. MINIMUM 4" THICKNESS MINERAL WOOL (MIN. 4 PCF DENSITY) TIGHTLY PACKED.
- 5. MINIMUM 1/4" DEPTH HILTI FS-ONE MAX OR FS-ONE INTUMESCENT FIRESTOP SEALANT.
- NOTES: 1. MAXIMUM AREA OF OPENING = 912 SQ. IN., WITH MAXIMUM DIMENSION OF 48".
 - 2. ANNULAR SPACE = NOMINAL 3".
 - 3. DUCT REINFORCEMENT TO CONSIST OF MINIMUM 1-1/2" x 1-1/2" x 1/8" THICK TRANSVERSE STIFFENING ANGLES APPROXIMATELY 2" LESS IN LENGTH THAN THE MAXIMUM DIMENSION, SCREW ATTACHED 8" O.C. TO THE DUCT 3" BEYOND THE TOP SURFACE OF THE FLOOR OR **BOTH SURFACES OF A WALL.**
 - 4. HILTI FS-ONE MAX OR FS-ONE INTUMESCENT FIRESTOP SEALANT IS REQUIRED ON BOTH SIDES OF A WALL.



HILTI, Inc. Tulsa, Oklahoma USA (800) 879-8000 Sheet 1 of 1 Scale Date Jan. 06, 2015

Drawing No. CAJ 7095b