

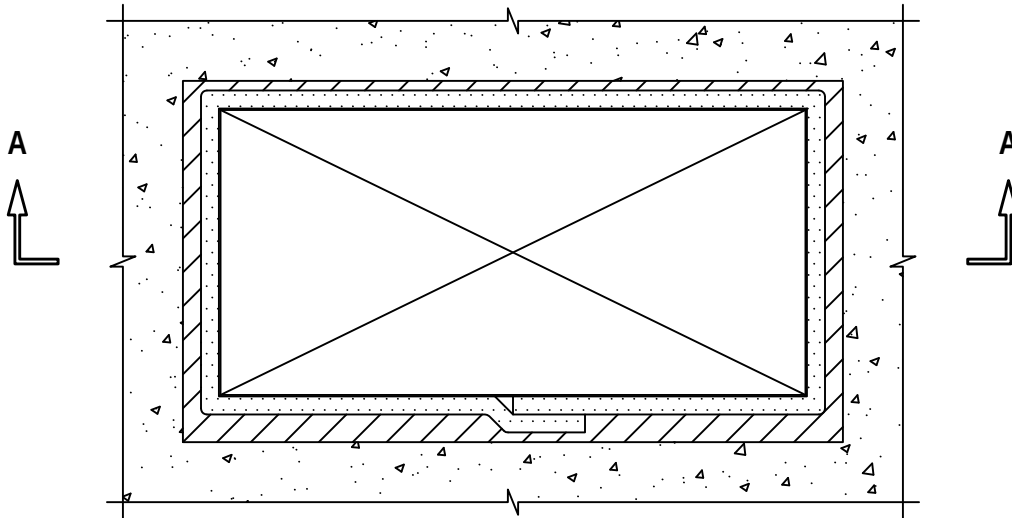
UL/cUL SYSTEM NO. C-AJ-7153

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

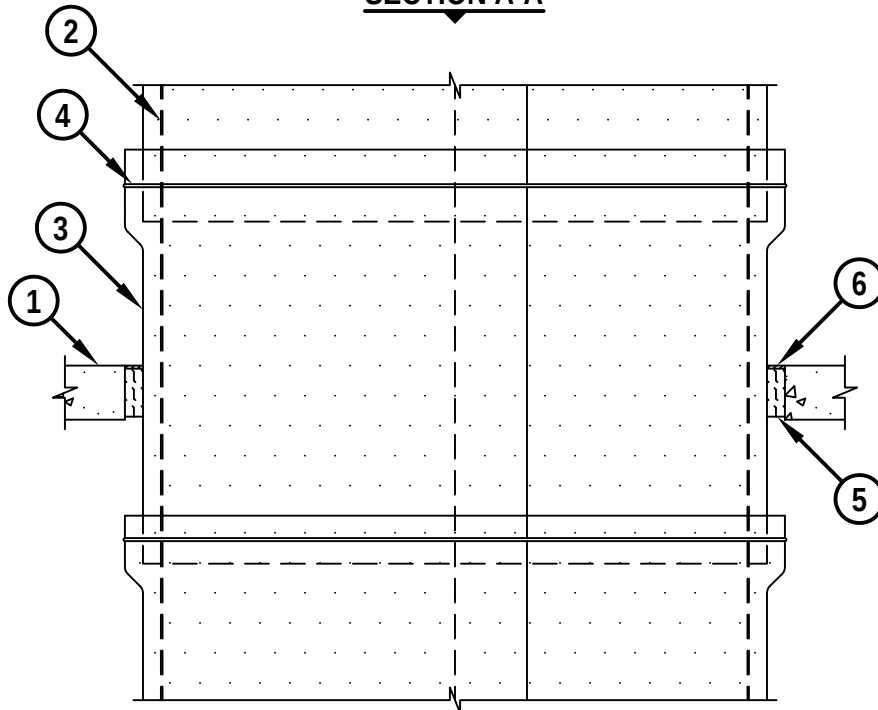
F-RATING = 2-HR.

T-RATING = 2-HR.

TOP VIEW



SECTION A-A



CAJ7153a.123113



HILTI, Inc.
Tulsa, Oklahoma USA (800) 879-8000

Sheet	1 of 2
Scale	1/16" = 1"
Date	Dec. 31, 2013

Drawing No.

**CAJ
7153a**

Saving Lives through Innovation and Education

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

F-RATING = 2-HR.

T-RATING = 2-HR.

CAJ7153a.123113

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. MAXIMUM 49" x 24" STEEL SHEET METAL AIR DUCT (MIN. 26 GA.).
3. NOMINAL 1-1/2" THICK FIREMASTER FAST WRAP XL, FIREMASTER FASTWRAP+, OR PYROSTAT DUCT WRAP XL (MANUFACTURED BY THERMAL CERAMICS) INSTALLED PER MANUFACTURER'S INSTRUCTIONS.
4. MINIMUM 1/2" WIDE x 0.015" THICK CARBON STEEL BANDING STRAPS SPACED 12" OC AND 1-1/2" FROM TRANSVERSE JOINTS OF DUCT WRAP.
5. MINIMUM 4" THICKNESS MINERAL WOOL SAFING (MIN. 3 PCF DENSITY) OR UNFACED DUCT WRAP MATERIAL TIGHTLY PACKED.
6. MINIMUM 1/4" DEPTH HILTI CFS-S SIL GG FIRESTOP SILICONE SEALANT OR HILTI CFS-S SIL SL FIRESTOP SILICONE SEALANT (FLOORS ONLY).

NOTES : 1. MAXIMUM AREA OF OPENING = 11.5 SQ. FT., WITH A MAXIMUM DIMENSION OF 55".
 2. ANNULAR SPACE = NOMINAL 3".
 3. MINIMUM 1/4" DEPTH HILTI CFS-S SIL GG FIRESTOP SILICONE SEALANT IS REQUIRED ON BOTH SIDES OF A WALL ASSEMBLY.


Hilti Firestop Systems

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Sheet	2 of 2
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