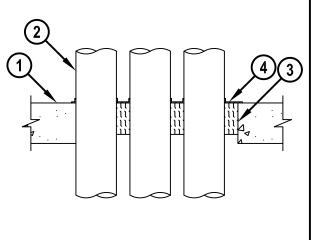
## **UL/cUL SYSTEM NO. C-AJ-1606**

## MULTIPLE METAL PIPES THROUGH CONCRETE FLOOR/WALL OR BLOCK WALL

**F-RATING = 2-HR. T-RATING = 1/2-HR.** 

**SECTION A-A** 



- 1. CONCRETE FLOOR OR WALL ASSEMBLY (2-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. ONE OR MORE OF THE FOLLOWING PENETRANTS MAY BE INSTALLED:
  - A. MAXIMUM 4" NOMINAL DIAMETER STEEL PIPE (SCH 10 OR HEAVIER).
  - B. MAXIMUM 4" NOMINAL DIAMETER CAST OR DUCTILE IRON PIPE.
  - C. MAXIMUM 4" NOMINAL DIAMETER STEEL CONDUIT OR EMT.
- 3. MINIMUM 4" THICKNESS MINERAL WOOL (MIN. 4 PCF DENSITY) TIGHTLY PACKED AND FLUSH WITH TOP SURFACE OF FLOOR. OR BOTH SURFACES OF A WALL.
- 4. MINIMUM 1/8" (WET) THICKNESS HILTI CFS-SP WB FIRESTOP JOINT SPRAY TO COMPLETELY COVER MINERAL WOOL AND OVERLAPPING MINIMUM 1/2" ONTO PENETRANTS AND CONCRETE FLOOR/WALL.

NOTES : 1. MAXIMUM AREA OF OPENING IS 576 SQ. IN., WITH A MAXIMUM DIMENSION OF 32".

- 2. ANNULAR SPACE BETWEEN PENETRANTS AND PERIPHERY OF OPENING = MINIMUM 0", MAXIMUM 7".
- 3. ANNULAR SPACE BETWEEN PENETRANTS = MINIMUM 1/4", MAXIMUM 5-1/2".
- 4. HILTI FIRESTOP SPRAY IS REQUIRED ON BOTH SIDES OF A WALL.



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

Sheet	1 of 1
Scale	3/32" = 1"
Date	Jan. 16, 2019

CAJ 1606c