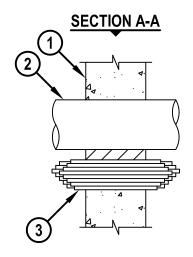
UL/cUL SYSTEM NO. W-J-8009

MULTIPLE PENETRATIONS THROUGH CONCRETE WALL

F-RATING = 4-HR. T-RATING = 0-HR.



- 1. PRECAST AUTOCLAVED AERATED CONCRETE WALL ASSEMBLY (UL DESIGN NO. U916 OR U917) (4-HR. FIRE-RATING).
- 2. PENETRATING ITEM TO BE ANY ONE OF THE FOLLOWING:
 - A. MAXIMUM 6" NOMINAL DIAMETER STEEL PIPE (SCH. 10 OR HEAVIER).
 - B. MAXIMUM 6" 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.
- 3. MAXIMUM 4" DIAMETER CABLE BUNDLE TO INCLUDE ANY OF THE FOLLOWING:
 - A. 300 PAIR NO. 24 AWG TELEPHONE CABLE WITH PVC JACKET.
 - B. 7/C NO. 12 AWG CABLE WITH PVC JACKET.
- 4. HILTI CFS-BL FIRESTOP BLOCK OR HILTI FS 657 FIRE BLOCK (2" THICK x 5" WIDE x 8" DEEP, REFERENCE : FRONT VIEW).
- NOTES: 1. MAXIMUM AREA OF OPENING = 144 SQUARE INCHES WITH MAXIMUM DIMENSION OF 12".
 - 2. ANNULAR SPACE BETWEEN PIPE AND PERIPHERY OF OPENING = MINIMUM 0", MAXIMUM 4".
 - 3. ANNULAR SPACE BETWEEN CABLE BUNDLE AND PERIPHERY OF OPENING = MINIMUM 0", MAXIMUM 6".
 - 4. ANNULAR SPACE BETWEEN PENETRANTS = MINIMUM 2". MAXIMUM 4".
 - 5. INSTALL HILTI FS-ONE MAX OR FS-ONE FIRESTOP SEALANT IN ANY VOID THAT MAY EXIST (AROUND CABLES, OR PIPE PENETRANT).
 - 6. [NOT SHOWN] ATTACH A STEEL WIRE MESH (NOMINAL 2" SQUARES, NO. 16 SWG) WITH 1/4" DIAMETER x 4-3/16" LONG STEEL CONCRETE ANCHORS AND 1-1/2" DIAMETER FENDER WASHERS (SPACED MAXIMUM 8" C/C) ON BOTH SIDES OF WALL ASSEMBLY. STEEL WIRE MESH CUT TO FIT CONTOUR OF THE PENETRANT AND OVERLAP MINIMUM 3" BEYOND THE PERIPHERY OF THE OPENING.



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Sheet	1 of 1
Scale	5/64" = 1"
Date	Jan. 09, 2015

WJ 8009d