

UL/cUL SYSTEM NO. W-L-7277

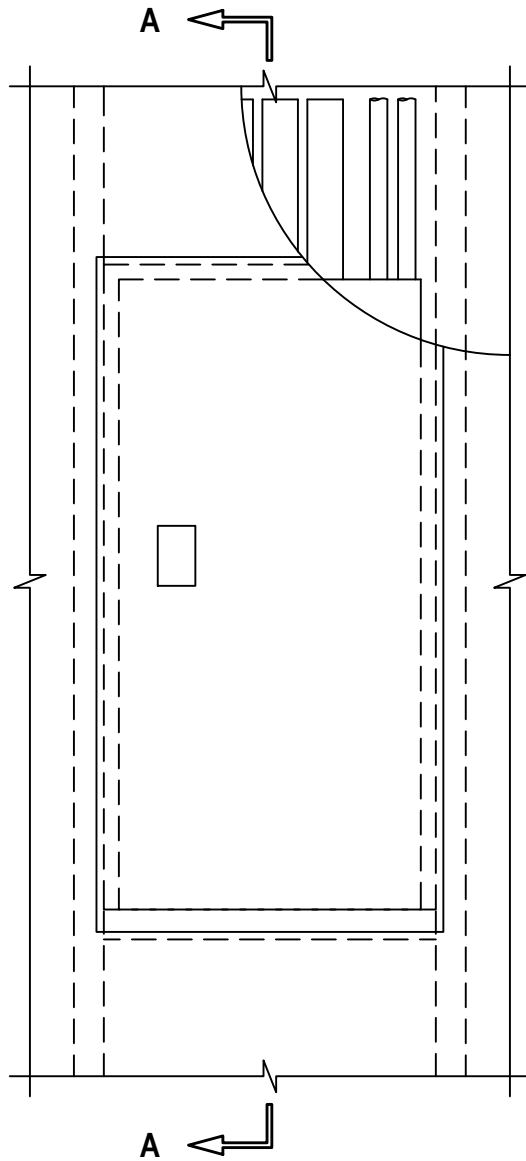
METALLIC BOX THROUGH GYPSUM WALL ASSEMBLY

F-RATING = 1-HR. OR 2-HR.

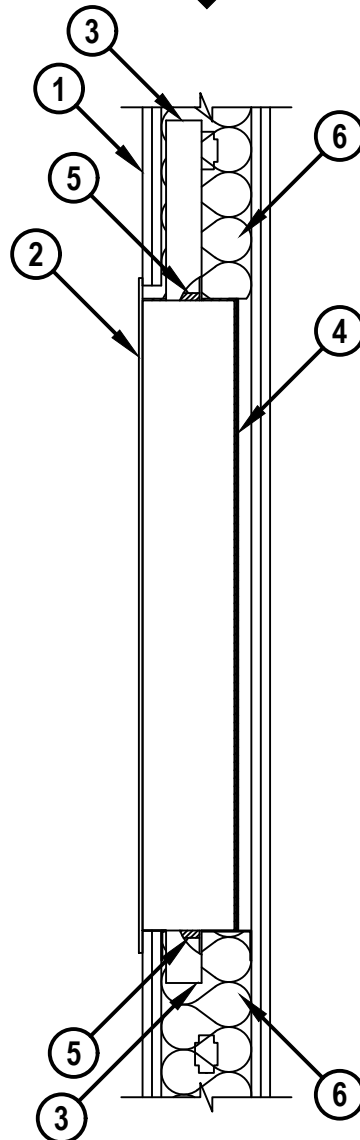
T-RATING = 1-HR. OR 2-HR.

WL7277b.010220

FRONT VIEW



SECTION A-A



DETAIL



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

Sheet	1 of 2
Scale	5/64" = 1"
Date	Jan. 02, 2020

Drawing No.

**WL
7277b**

Saving Lives through Innovation and Education

METALLIC BOX THROUGH GYPSUM WALL ASSEMBLY

F-RATING = 1-HR. OR 2-HR.

T-RATING = 1-HR. OR 2-HR.

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1. GYPSUM WALL ASSEMBLY (UL/cUL CLASSIFIED U300, U400, V400, OR W400 SERIES) (1-HR. OR 2-HR. FIRE-RATING) (2-HR. SHOWN) TO CONSIST OF THE FOLLOWING FEATURES :
 - A. MINIMUM 6" WIDE STEEL STUDS SPACED A MAXIMUM 24" O.C. VERTICAL FRAMING MEMBER TO BE LOCATED WITHIN 3/4" TO EACH SIDE OF STEEL BOX. AN ADDITIONAL FRAMING MEMBER SHALL BE USED BELOW THE STEEL BOX TO FORM A SHELF WITHIN THE WALL CAVITY TO SUPPORT THE STEEL BOX.
2. STEEL BOX (18 GA. OR HEAVIER) WITH MAXIMUM DIMENSIONS OF 20-1/8" WIDE BY 42" HIGH BY 5-3/4" DEEP AND WITH INTEGRAL STEEL HINGED DOOR. BOX TO BE FLUSH MOUNTED AND PROVIDED WITH MOUNTING TRIM THAT OVERLAPS ONTO GYPSUM WALL BOARD. SECURE STEEL BOX ON BOTH SIDES TO VERTICAL STUDS WITH FOUR TOGGLE BOLTS (TWO AT TOP AND TWO AT BOTTOM) LOCATED WITHIN 12" FROM TOP AND BOTTOM OF BOX.
3. BOTTOM AND/OR TOP OF BOX MAY BE PENETRATED BY UP TO NINE (9) OF THE FOLLOWING ITEMS, WITH EACH ITEM CONNECTED TO BOX WITH CONDUIT FITTINGS :
 - A. MAXIMUM 2" NOMINAL DIAMETER STEEL CONDUIT (MAX. QTY. = 5).
 - B. MAXIMUM 1" NOMINAL DIAMETER FLEXIBLE STEEL CONDUIT (MAX. QTY. = 4).
4. HILTI CFS-PA FIRESTOP PUTTY PAD OR HILTI CP 617 (-L, -XL) FIRESTOP PUTTY PAD INSTALLED IN ONE LAYER TO COVER THE TOP, SIDES, AND BACK OF STEEL BOX FOR 1-HR. AND 2-HR. CONDITIONS. FOR 2-HR. CONDITIONS ONLY, AN ADDITIONAL LAYER OF PUTTY PAD (TWO TOTAL LAYERS) SHALL BE INSTALLED ON THE BACK OF THE STEEL BOX. NO PUTTY INSTALLED ON BOTTOM OF BOX. HILTI CFS-PA FIRESTOP PUTTY PAD SHALL OVERLAP A MIN. 1/2" ONTO STEEL CONDUIT/FITTINGS. HILTI CFS-PA TO BE BUTTED TIGHTLY TOGETHER AT ALL MATING EDGES.
5. MINIMUM 1/2" DEPTH HILTI FS-ONE MAX INTUMESCENT FIRESTOP SEALANT OR HILTI CP 618 FIRESTOP PUTTY STICK TO BE INSTALLED WITHIN EACH OPEN END OF THE CONDUITS WHICH TERMINATE WITHIN THE BOX.
6. ANY UL/cUL LISTED R19 GLASS FIBER BATT INSULATION OR MINERAL WOOL INSULATION TO FILL STUD CAVITY WHERE STEEL BOX IS INSTALLED, AND ADJACENT STUD CAVITIES. PIECES OF INSULATION TO BE INSTALLED TO FILL VOIDS AROUND STEEL BOX AND ANY PENETRANTS.

NOTE : ANNULAR SPACE = MINIMUM 0", MAXIMUM 1/2".

 Hilti Firestop Systems	HILTI, Inc. Plano, Texas USA (800) 879-8000	Sheet 2 of 2	Drawing No. WL 7277b
		Scale -	
		Date Jan. 02, 2020	
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