UL/cUL SYSTEM NO. W-L-5383
INSULATED METAL PIPE THROUGH GYPSUM WALL ASSEMBLY

F-RATING = 1-HR. OR 2-HR.
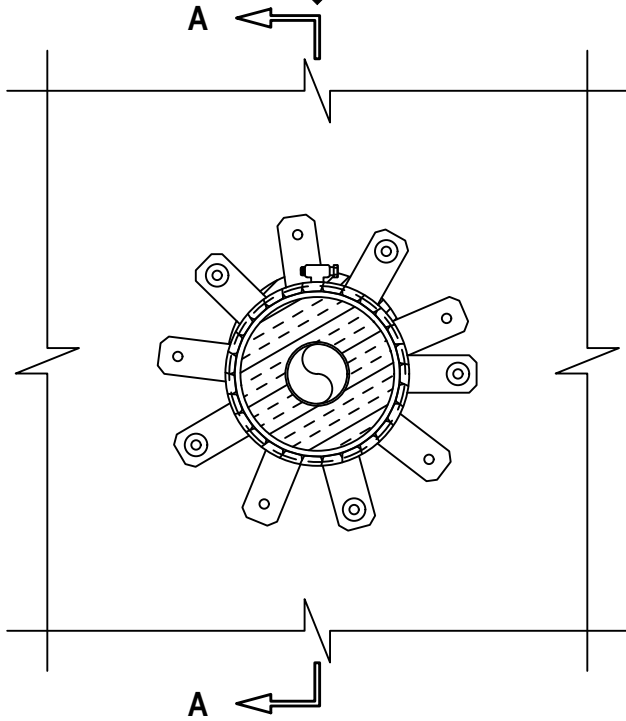**T-RATING = 1-HR. OR 2-HR.**
L-RATING AT AMBIENT = LESS THAN 1 CFM / SQ FT
L-RATING AT 400°F = LESS THAN 1 CFM / SQ FT

WL 5383b.010923

FRONT VIEW

SECTION A-A

Sheet	**1 of 2**	Drawing No.
Scale	**5/32" = 1"**	**WL**
Date	**Jan. 09, 2023**	**5383b**

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Hilti Firestop Systems

Saving Lives through Innovation and Education

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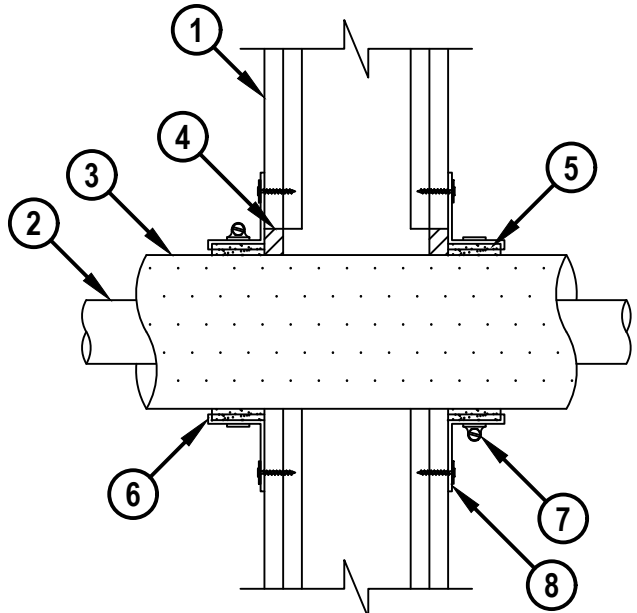**L-RATING AT AMBIENT = LESS THAN 1 CFM / SQ FT**
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1. GYPSUM WALL ASSEMBLY (UL/cUL CLASSIFIED U300, U400, OR V400 SERIES) (1-HR. OR 2-HR. FIRE-RATING) (2-HR. SHOWN). THE RATINGS OF THE SYSTEM ARE EQUAL TO THE RATING OF THE WALL ASSEMBLY.
   A. [NOT SHOWN] WOOD STUDS TO CONSIST OF NOMINAL 2" x 4" LUMBER. STEEL STUDS TO BE MINIMUM 3-5/8" WIDE.
2. PENETRATING ITEM TO BE ONE OF THE FOLLOWING :
   A. MAXIMUM 2" NOMINAL DIAMETER COPPER PIPE OR TUBING.
3. MAXIMUM 1-1/2" THICK AB/PVC PIPE INSULATION.
4. MINIMUM 5/8" DEPTH HILTI FS-ONE MAX INTUMESCENT FIRESTOP SEALANT.
5. HILTI CP 648E FIRESTOP WRAP STRIPS (NOMINAL 3/16" THICK x 1-3/4" WIDE) CONTINUOUSLY WRAPPED AROUND THE OUTER CIRCUMFERENCE OF THE PENETRATING ITEM, AS SPECIFIED IN TABLE BELOW, WITH ENDS BUTTED AND HELD IN PLACE WITH TAPE.
6. HILTI 1-3/4" RETAINING COLLAR WRAPPED OVER WRAP STRIP, OVERLAPPING MINIMUM 1".
7. NOMINAL 1/2" WIDE STAINLESS STEEL HOSE CLAMP FASTENED AT MID-HEIGHT OF RETAINING COLLAR.
8. EVERY TAB OF RETAINING COLLAR SECURED TO WALL WITH 1-1/4" LONG STEEL LAMINATE SCREWS IN CONJUNCTION WITH 3/4" DIAMETER STEEL WASHERS.

MAX PIPE DIAMETER	NO. OF LAYERS OF CP 648E
2" (OR SMALLER)	2

NOTES : 1. MAXIMUM DIAMETER OF OPENING = 6".
2. ANNULAR SPACE = MINIMUM 0", MAXIMUM 1-1/4".