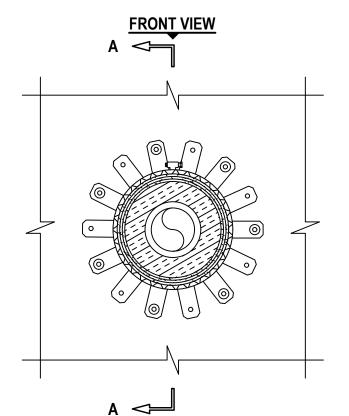
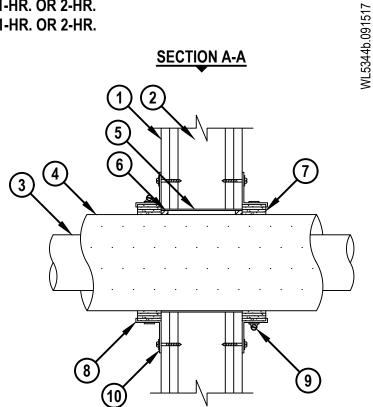
UL SYSTEM NO. W-L-5344

INSULATED PLASTIC PIPE THROUGH GYPSUM WALL ASSEMBLY

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





SECTION A-A



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

Sheet	1 of 2
Scale	9/64" = 1"
Date	Sep. 15. 2017

Drawing No. WL 5344b

UL SYSTEM NO. W-L-5344

INSULATED PLASTIC PIPE THROUGH GYPSUM WALL ASSEMBLY

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

WL5344b.09151

- 1. GYPSUM WALL ASSEMBLY (UL CLASSIFIED U300, U400, V400, OR W400 SERIES) (1-HR. OR 2-HR. FIRE-RATING) (2-HR. SHOWN).
- 2. [NOT SHOWN] WOOD STUDS TO CONSIST OF NOMINAL 2" x 4" LUMBER (SPACED MAXIMUM 16" OC). STEEL STUDS TO BE MINIMUM 3-1/2" WIDE (SPACED MAXIMUM 24" OC).
- 3. MAXIMUM 4" NOMINAL DIAMETER PEX TUBING (SDR 9) (UPONOR AQUAPEX OR HEPEX) (CLOSED PIPING SYSTEM ONLY).
- 4. NOMINAL 1-1/2" THICK GLASS-FIBER PIPE INSULATION.
- 5. [OPTIONAL] MAXIMUM 7-5/8" DIAMETER STEEL SLEEVE (MIN. 28 GA. SHEET METAL) HAVING A MINIMUM 1" OVERLAP ALONG THE LONGITUDINAL SEAM.
- 6. MINIMUM 1/2" DEPTH HILTI FS-ONE MAX INTUMESCENT FIRESTOP SEALANT.
- 7. HILTI CP 648E WRAP STRIP (NOMINAL 3/16" THICK x 1-3/4" WIDE) CONTINUOUSLY WRAPPED AROUND THE OUTER CIRCUMFERENCE OF THE PIPE INSULATION, AS SPECIFIED IN THE TABLE BELOW, AND HELD IN PLACE WITH TAPE.
- 8. HILTI 1-3/4" RETAINING COLLAR WRAPPED OVER WRAP STRIPS, OVERLAPPING MINIMUM 1".
- 9. NOMINAL 1/2" WIDE STAINLESS STEEL HOSE CLAMP(S) FASTENED AT MID-HEIGHT OF RETAINING COLLAR (SEE NOTE NO. 3 BELOW).
- 10. EVERY OTHER TAB OF RETAINING COLLAR SECURED TO WALL WITH 1-1/4" LONG LAMINATE DRYWALL SCREWS IN CONJUNCTION WITH 3/4" DIAMETER STEEL WASHERS.

NOMINAL PIPE DIAMETER	NO. OF LAYERS OF CP 648E
3" (OR SMALLER)	3
4"	4

NOTES: 1. MAXIMUM DIAMETER OF OPENING = 7-5/8".

- 2. ANNULAR SPACE = MINIMUM 0", MAXIMUM 1/8".
- 3. AS AN ALTERNATIVE TO COLLAR CLAMP (ITEM 9) COLLAR MAY BE SECURED TOGETHER WITH TWO SHEET METAL SCREWS THROUGH THE OVERLAPPING PORTION OF THE COLLAR.

Hilti Firestop Systems			

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Sheet	2 of 2
Scale	-
Date	Sep. 15, 2017

WL 5344b