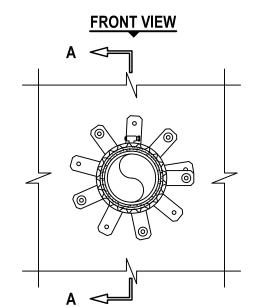
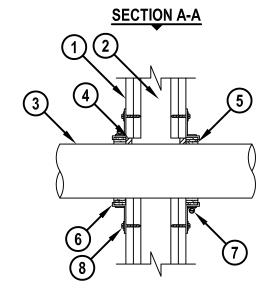
UL SYSTEM NO. W-L-2335

PLASTIC PIPE THROUGH GYPSUM WALL ASSEMBLY

F-RATING = 1-HR. OR 2-HR. T-RATING = 3/4-HR., 1-HR., OR 1-1/2-HR.





- 1. GYPSUM WALL ASSEMBLY (UL CLASSIFIED U300 OR U400 SERIES) (1-HR. OR 2-HR. FIRE-RATING) (2-HR. SHOWN).
- 2. [NOT SHOWN] WOOD STUDS TO CONSIST OF NOMINAL 2" x 4" LUMBER. STEEL STUDS TO BE MINIMUM 2-1/2" WIDE.
- 3. PENETRATING ITEM TO BE ONE OF THE FOLLOWING (ALSO SEE NOTE NO. 3 BELOW):
 - A. MAXIMUM 4" NOMINAL DIAMETER PVC PLASTIC PIPE (CELLULAR OR SOLID CORE).
 - B. MAXIMUM 4" NOMINAL DIAMETER ABS PLASTIC PIPE (CELLULAR OR SOLID CORE).
 - C. MAXIMUM 4" NOMINAL DIAMETER CPVC PLASTIC PIPE (CLOSED PIPING SYSTEM ONLY).
- 4. MINIMUM 1/4" DEPTH HILTI FS-ONE MAX OR FS-ONE INTUMESCENT FIRESTOP SEALANT.
- 5. HILTI CP 648E WRAP STRIP (NOMINAL 3/16" THICK x 1" WIDE) CONTINUOUSLY WRAPPED AROUND THE OUTER CIRCUMFERENCE OF THE PIPE, AS SPECIFIED IN THE TABLE BELOW, AND HELD IN PLACE WITH TAPE.
- 6. HILTI RETAINING COLLAR WRAPPED OVER WRAP STRIPS, OVERLAPPING MINIMUM 1".
- 7. NOMINAL 1/2" WIDE STAINLESS STEEL HOSE CLAMP FASTENED AT MID-HEIGHT OF RETAINING COLLAR.
- 8. EVERY OTHER TAB OF RETAINING COLLAR SECURED TO GYPSUM WALL WITH 1-1/4" LONG STEEL LAMINATE DRYWALL SCREWS IN CONJUNCTION WITH 1-1/4" DIAMETER FENDER WASHERS.

NOMINAL PIPE DIAMETER	NO. OF LAYERS OF CP 648E
2" (OR SMALLER)	2
4" (OR SMALLER)	3

NOTES: 1. MAXIMUM DIAMETER OF OPENING = 5".

- 2. ANNULAR SPACE = MINIMUM 0", MAXIMUM 1/2".
- 3. CLOSED OR VENTED PIPING SYSTEMS (PVC & ABS = SCHEDULE 40; CPVC = SDR 13.5).



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Scale	1/8" = 1"
Date	Jan. 12, 2015

WL 2335c

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