



Classified by
Underwriters Laboratories, Inc.
to CAN/ULC-S115

System No. W-L-1550

F Ratings -- 2 Hr

FT Ratings - 0 Hr

FH Rating - 0 Hr

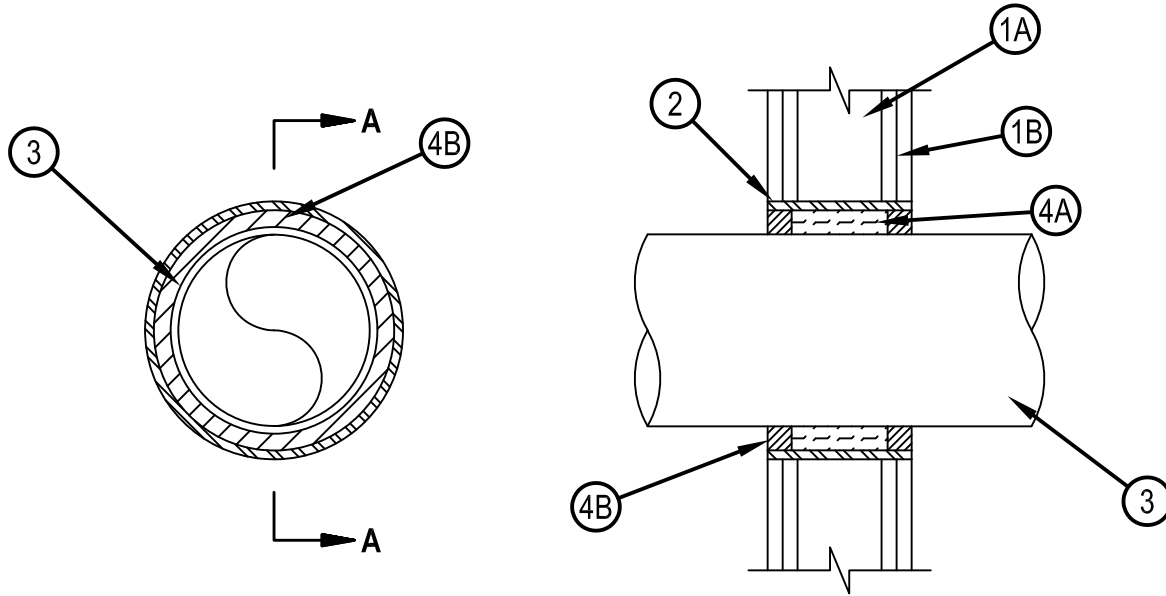
FTH Rating - 0 Hr

L-RATING AT AMBIENT = LESS THAN 5.1 L/s/m²

L-RATING AT 400°F = LESS THAN 5.1 L/s/m²



WL 1550



SECTION A-A

1. Wall Assembly — The 2 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400, V400 or W400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
 - A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 3-1/2 in. (89 mm) wide and spaced max 24 in. (610 mm) OC.
 - B. Gypsum Board* — Two layers of nom 5/8 in. (16 mm) thick gypsum board, as specified in the individual Wall and Partition Design. Max diam of opening is 10 in. (254 mm).
2. Steel Sleeve — Max 10 in. (254 mm) cylindrical sleeve fabricated from min 28 gauge galv sheet steel and having a min 2 in. (51 mm) lap along the longitudinal seam. Length of steel sleeve to be equal to the overall thickness of the wall. Sleeve installed by coiling the sheet steel to a diam smaller than the through opening, inserting the coil through the openings and releasing the coil to let it uncoil against the circular cutouts in the gypsum board layers.
3. Through Penetrants — One nom 8 in. (203 mm) aluminum tubing with a min 0.060 in. wall thickness to be installed either concentrically or eccentrically within the firestop system. Tubing to be rigidly supported on both sides of wall assembly. The annular space between the tubing and sleeve shall be min 1/2 in. (13 mm) to max 1-1/2 in. (64 mm).
4. Firestop System — The firestop system shall consist of the following:
 - A. Packing Material — Min 4 in. thickness of min 4.0 pcf (64 kg/m³) mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from both surfaces of wall as required to accommodate the required thickness of fill material.
 - B. Fill, Void or Cavity Material* — Sealant — Min 1 in. (25 mm) thickness of tightly packed fill material applied within the annulus, flush with the ends of the steel sleeve.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE MAX Intumescent Sealant

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.



Hilti Firestop Systems

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