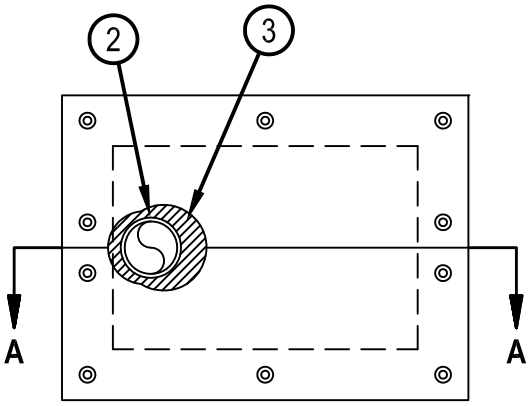
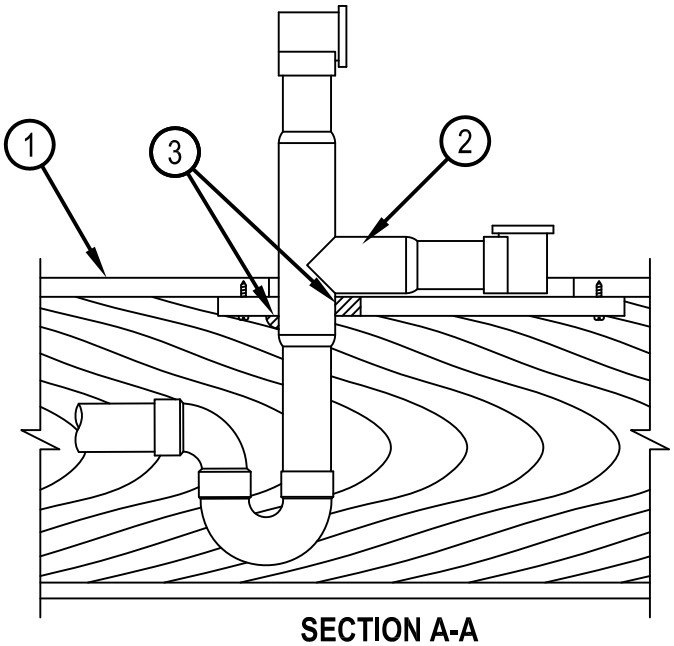
Classified by
Underwriters Laboratories, Inc.
to CAN/ULC-S115

System No. F-C-2009

F Rating - 1 Hr
FT Rating - 1 Hr
FH Rating - 0 Hr
FHT Rating - 0 Hr





SECTION A-A

System tested with a pressure differential of 50 Pa between the exposed and the unexposed surfaces with the higher pressure on the exposed side.

1. Floor-Ceiling Assembly — The 1 hr fire-rated solid or trussed lumber joist floor-ceiling assembly shall be constructed of the materials and in the manner specified in the individual L500 Series Floor-Ceiling Designs in the UL Fire Resistance Directory. The general construction features of the floor-ceiling assembly are summarized below:
   A. Flooring System — Lumber or plywood subfloor with finish floor of lumber, plywood or Floor Topping Mixture* as specified in the individual Floor-Ceiling Design. Rectangular cutout in flooring to accommodate the bathtub drain piping (Item 2) to be max 203 by 305 mm (8 in. by 12 in.). Cutout to be patched on underside of subfloor using one layer of min 19 mm (3/4 in.) thick plywood or min 16 mm (5/8 in.) thick gypsum board (Item 1C) sized to lap min 51 mm (2 in.) beyond each edge of rectangular cutout. Patch split into two pieces at opening and hole-sawed for bathtub drain piping. Diam of opening hole sawed through patch to accommodate drain piping (Item 2) to be 25 mm (1 in.) larger than outside diam of drain piping and positioned such that the annular space between drain piping and periphery of opening is min 0 in. (point contact) to max 25 mm (1 in.) Two pieces positioned around drain piping, with cut edges tightly butted, and screw-attached to underside of subfloor with 32 mm (1-1/4) in long steel screws spaced max 152 mm (6 in.) OC.
   B. Wood Joists* — Nom 254 mm (10 in.) deep (or deeper) lumber, steel or combination lumber and steel joists, trusses or Structural Wood Members* with bridging as required and with ends firestopped.
   C. Gypsum Board* — Nom 16 mm (5/8 in.) thick, 1.22 m (4 ft) wide as specified in the individual Floor-Ceiling Design.
2. Drain Piping — Nom 38 mm (1-1/2 in.) (or smaller) diam Schedule 40 acrylonitrile butadiene styrene (ABS) or polyvinyl chloride (PVC) pipe and drain fittings cemented together and provided with ABS or PVC bathtub waste/overflow fittings. Annular space shall be min 0 in. (point contact) to max 25 mm (1 in.).
3. Fill, Void or Cavity Materials* — Min 16 mm (5/8 in.) depth of fill material applied within the annulus, flush with both surfaces of plywood or gypsum board patch. A min 13 mm (1/2 in.) diameter bead of sealant applied at the pipe/plywood or pipe/gypsum board interface at point contact location on the bottom side of the patch.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP 606 Flexible Firestop Sealant or FS-ONE Sealant or 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.