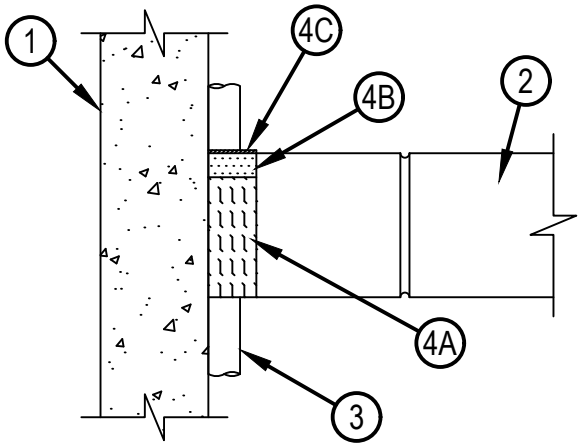
Classified by
Underwriters Laboratories, Inc.
to UL 2079

System No. WW-D-0220

Assembly Rating — 2 Hr
Nominal Joint Width — 2 In.
Class II Movement Capabilities — 12.5% Compression or Extension



1. Wall Assembly — Min 4-1/2 in. (114 mm) thick steel-reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) structural concrete. Wall may also be constructed of any UL Classified Concrete Blocks*
   See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.
2. Wall Assembly — Min 6 in. (152 mm) thick steel-reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) structural concrete. Wall may also be constructed of any min 6 in. (152 mm) thick UL Classified Concrete Blocks*.
   See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.
3. Through Penetrants — (Optional) — Penetrants to be installed perpendicular to joint length and against the concrete wall (Item 1). Penetrants shall be installed with a min annular space of 5/8 in. (16 mm) between the penetrant and the opposing concrete wall. The minimum spacing between penetrants shall be 8 in. (203 mm). Penetrants to be rigidly supported and secured tight to the wall, on both sides of the joint system. The following types and sizes of penetrants may be used:
   A. Conduit — Nom 1 in. (25 mm) diam (or smaller) rigid steel conduit.
   B. Conduit — Nom 1 in. (25 mm) diam (or smaller) Schedule 40 PVC conduit.
4. Joint System — Max separation between walls (at time of installation of joint system) is 2 in. (51 mm). The joint system is designed to accommodate a max 12.5 percent compression or extension from its installed width. The joint system shall consist of forming and fill materials as follows:
   A. Forming Material* — Nom 4 pcf (64 kg/m3) mineral wool batt compressed in thickness minimum 50% and installed within the joint such that it is flush with one side of wall (Item 2), and recessed 1 in. (25 mm) from opposite side of wall to accommodate the fill material (Item 4B). When penetrants (Item 3) are used, the forming material shall be friction fit around each penetrant and installed with min 50% compression between penetrant and wall.
   INDUSTRIAL INSULATION GROUP L L C — MinWool-1200 Safing
   ROCK WOOL MANUFACTURING CO — Delta Board
   ROCKWOOL MALAYSIA SDN BHD — SAFE
   ROCKWOOL — SAFE
   THERMAFIBER INC — SAF
   B. Fill, Void or Cavity Material* — Sealant — Min 1 in. (25 mm) thickness of fill material applied within the joint flush with one side of wall (Item 2).
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP 606 Sealant
   C. Fill, Void or Cavity Material* — Nom 60 mm diam by 3 mm thick putty discs with one seam at radius. Paper-backer of disc to be removed and a disc firmly pressed around the accessible circumference of each penetrant (Item 3) and over the sealant (Item 4B) at face of joint. One disc shall be applied around each penetrant and disc(s) to be installed at the side of joint with sealant (Item 4B).
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CFS-D 1" Firestop Putty Disc

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

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