

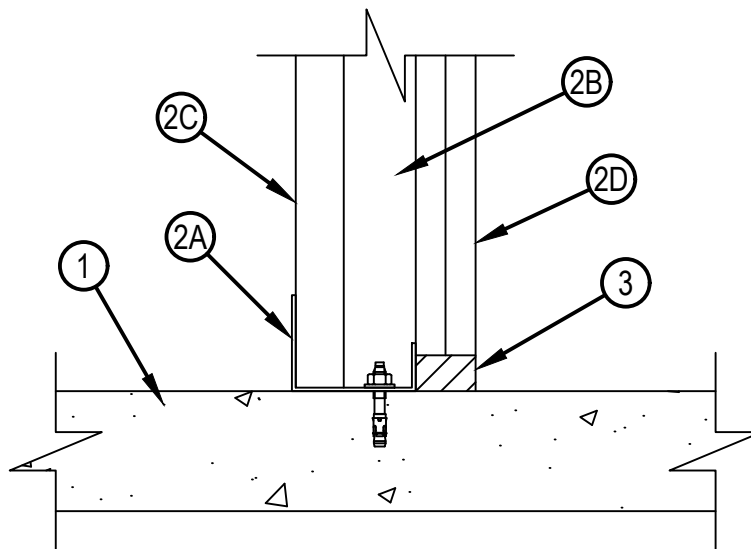


Classified by  
Underwriters Laboratories, Inc.  
to UL 2079 and CAN/ULC-S115

## System No. BW-S-0023

BWS 0023

| ANSI/UL2079                                  | CAN/ULC S115                                 |
|--|--|
| Assembly Ratings — 1 and 2 Hr (See Item 2)   | F Ratings — 1 and 2 Hr (See Item 2)          |
| Joint Width — 3/4 and 1 In. Max (See Item 3) | FT Ratings — 1 and 2 Hr (See Item 2)         |
| L Rating At Ambient – 1.65 CFM/Lin ft        | FH Ratings — 1 and 2 Hr (See Item 2)         |
| L Rating at 400 F – 1.33 CFM/Lin ft          | FTH Ratings — 1 and 2 Hr (See Item 2)        |
|  | Joint Width — 3/4 and 1 In. Max (See Item 3) |
|  | L Rating at Ambient – 2.55 L/s/Lin m         |
|  | L Rating at 204°C – 2.06 L/s/Lin m           |



1. Floor Assembly — Min 2-1/2 in. (64 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m<sup>3</sup>) structural concrete.
2. Wall Assembly — The 1 or 2 hr fire rated gypsum board/steel stud shaft wall assembly shall be constructed of the materials and in the manner specified in the individual U400, V400 or W400 Series Wall and Partition Design in the UL Fire Resistance Directory. In addition, the wall may incorporate a head-of-wall joint system constructed as specified in the HW Series Joint Systems in the UL Fire Resistance Directory. The wall shall include the following construction features:
  - A. Floor and Ceiling Runners — J-shaped runner, 2-1/2 in. (64 mm) wide with unequal legs of min 1-1/4 in. (32 mm) and 2 in. (51 mm), fabricated from min 24 MSG galv steel. Runners positioned with short leg toward finished side of wall. Runners attached to structural supports with steel fasteners located not greater than 2 in. (51 mm) from ends and not greater than 12 in. (610 mm) OC.
  - B. Steel Studs — "C-H" or "C-T" shaped studs, 2-1/2 in. (64 mm) wide by 1-1/2 in. (38 mm) deep, fabricated from min 25 MSG galv steel, cut to lengths 3/8 to 1/2 in. (10 to 13 mm) less than floor to ceiling height and spaced 24 in. (610 mm) OC. Studs nest in floor runner at bottom and J runner or slotted ceiling track at top. After installation of gypsum board liner panels (Item 2C), studs secured to flange of floor runner on finished side of wall only with No. 6 by 1/2 in. (13 mm) long self-drilling, self-tapping steel screws. Studs secured to flange of slotted ceiling track on finished side of wall only with No. 8 by 1/2 in. (13 mm) long self-drilling, self-tapping wafer head steel screws at slot midheight.
  - C. Gypsum Board\* — 1 in. (25 mm) thick by 24 in. (610 mm) wide gypsum board liner panels as specified in the individual Wall and Partition Series design. Panels cut 1 in. (25 mm) less in length than floor to ceiling height. Vertical edges inserted into the "H"-shaped section of "C-H" studs or "T"-shaped section of "C-T" studs. At the ends of the assembly, the free edge of the end panels are attached to the long leg of vertical J-runners (Item 2A) with 1-5/8 in. (41 mm) long Type S steel screws spaced max 12 in. (305 mm) OC.
  - D. Gypsum Board\* — Gypsum board sheets, 1/2 or 5/8 in. (13 or 16 mm) thick, applied vertically or horizontally on finished side of wall as specified in the individual Wall and Partition Series design. A max 1 in. (25 mm) gap when CP 606 sealant (Item 3) is used, or 3/4 in. (19 mm) gap when CP 605 sealant (Item 3) is used, shall be maintained between the bottom of the gypsum board and the top surface of the concrete floor. The screws attaching the gypsum board layers to the "C-H" or "C-T" studs shall be located 1 in. (25 mm) above the top of the J-runner or slotted ceiling track. No gypsum board attachment screws are to penetrate the ceiling J-runner and slotted ceiling track.

The hourly fire rating of the joint system is equal to the hourly fire rating of the wall.

3. Fill, Void or Cavity Material\* — Sealant — Max separation between top of floor and bottom of gypsum board on the finish side is 1 in. (25 mm) when CP 606 sealant is used, and 3/4 in. (19 mm) when CP 605 or CFS-S SIL GG sealant is used. The depth of sealant to be installed to fill the linear gap between the bottom of the gypsum board sheets (Item 2D) and the top of the concrete floor shall be equal to the overall thickness of the gypsum board sheets, flush with the finished side of the wall.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP 606, CP 605, or CFS-S SIL GG

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