Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

XHBN - Joint Systems
XHBN7 - Joint Systems Certified for Canada

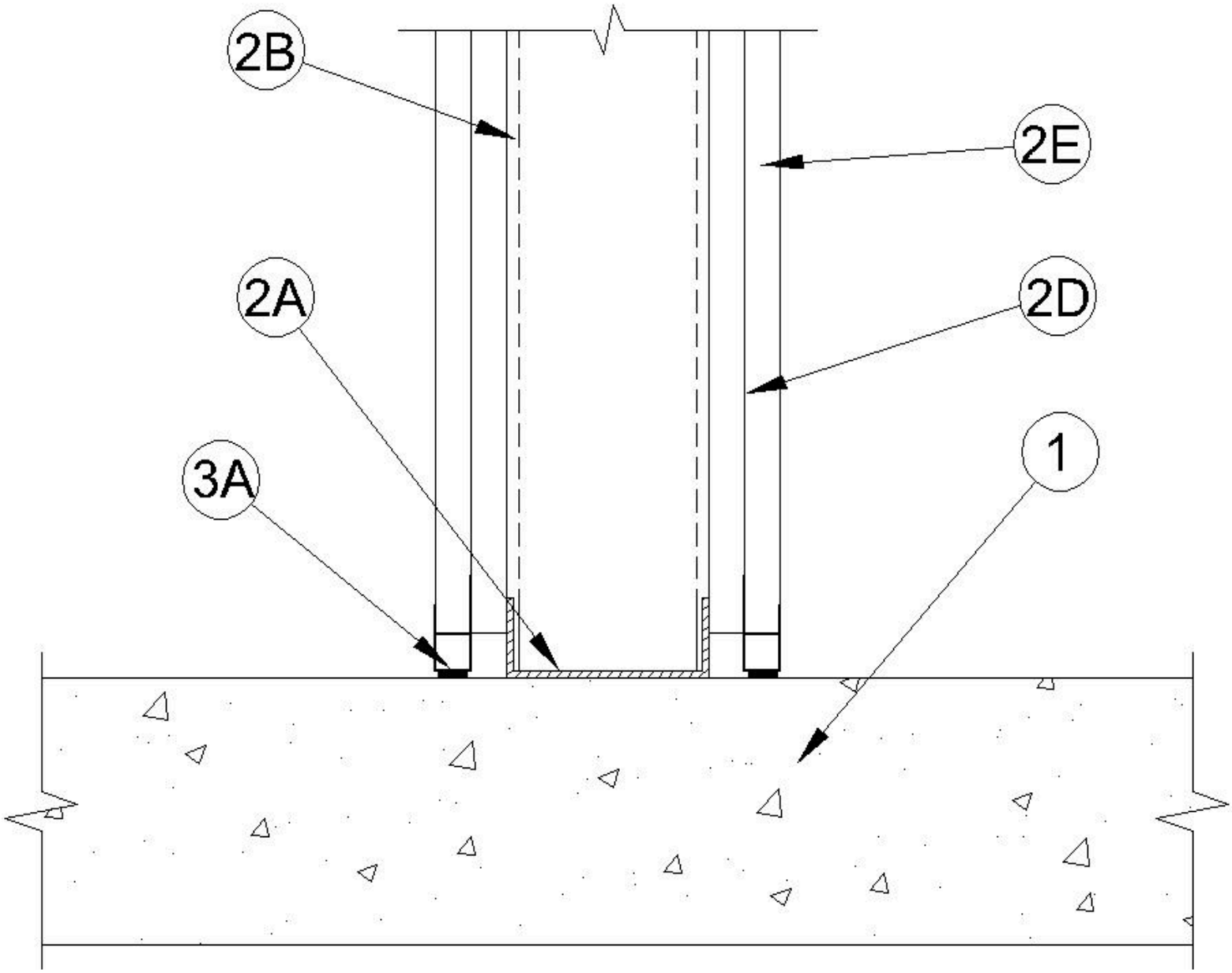
See General Information for Joint Systems

See General Information for Joint Systems Certified for Canada

System No. BW-S-0078

September 21, 2026

ANSI/UL2079	CAN/ULC S115
Assembly Ratings — 1 and 2 Hr (See Item 2)	F Ratings — 1 and 2 Hr (See Item 2)
Nominal Joint Width – 3/4 in.	FT Ratings — 1 and 2 Hr (See Item 2)
L Rating at Ambient — Less than 1 CFM/Lin Ft	FH Ratings — 1 and 2 Hr (See Item 2)
L Rating at 400°F — Less than 1 CFM/Lin Ft	FTH Ratings — 1 and 2 Hr (See Item 2)
	Nominal Joint Width – 19 mm
	L Rating at Ambient — Less than 1.55 L/s/m
	L Rating at 204°C — Less than 1.55 L/s/m


2B
2E
2A
2D
1
3A

1. **Floor Assembly —** Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m^3) structural concrete. Floor may also be constructed of any 6 in. (152 mm) thick UL Classified hollow-core **Precast Concrete Units***.

See **Precast Concrete Units** (CFTV) category in UL Product iQ for names of manufactures.

1A **Floor Assembly —** (Not Shown, Alternate) The fire-rated fluted steel floor unit/concrete floor assembly shall be constructed of the materials and in the manner described in the individual D700 or D900 Series Floor-Ceiling Design in the UL Fire Resistance Directory and shall include the following construction features:

A. **Steel Floor and Form Units* —** Max 3 in. (76 mm) deep galv steel fluted units.

B. **Concrete —** Min 2-1/2 in. (64 mm) thick reinforced concrete, as measured from the top plane of the floor units.

2. **Wall Assembly —** The 1 or 2 hr fire-rated gypsum board/steel stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, V300, W300, U400, V400 or W400 Series Wall in the UL Fire Resistance Directory. In addition, the wall may incorporate a head-of-wall joint system as specified in the HW series Joint Systems in the UL Fire Resistance Directory. The wall shall include the following construction features:

A. **Floor Runner —** Floor runners of wall assembly may consist of wood stud or steel channel stud runners. Wood runners to be min 2 by 4 in. (51 by 102 mm) nominal lumber and when width of joint system exceeds 1/2 in. (13 mm), double wood runner shall be used. Steel runners to be min 3-1/2 in. (89 mm) wide with min 1-1/4 in. (32 mm) flanges and min No. 25 gauge galv steel channel, sized to accommodate steel studs (Item 2C). Runners secured with steel fasteners spaced max 12 in. (305 mm) OC.

B. **Studs —** Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of min 2 by 4 in. (51 by 102 mm) nominal lumber spaced max 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. Steel studs cut 1/4 to 1/2 in. (6 to 13 mm) less in length than assembly height with bottom nesting in, resting on and fastened to floor runner with sheet metal screws.

C. **Batts and Blankets* —** (Not shown, optional) Any glass fiber insulation bearing the UL Classification Marking as to fire resistance or surface burning characteristics, of a width and thickness to completely fill stud cavity. Insulation batts friction fit to completely fill all stud cavities.

See **Batts and Blankets** (BZJZ) category in UL Product iQ for names of manufacturers

D. **Gypsum Board* —** One or two layers of 5/8 in. (16 mm) thick gypsum board for 1 and 2 hr rated assemblies, respectively. Wall to be constructed as specified in the individual U300, V300, W300, U400, V400 or W400 Series Design in UL Product iQ, except that the board may be cut a max 3/4 in. (19 mm) less the wall height to accommodate the vinyl profile (Item 3A). Prior to the gypsum board installation on the wall assembly, the vinyl profile (Item 3A) shall be attached. There shall be no gap between the vinyl profile (Item 3A) and the floor assembly (Item 1)

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

3. **Joint System — S**separation between top of floor and bottom of gypsum board (at time of installation) is Nominal 3/4 in. (19 mm).

A. **Fill, Void or Cavity Material* —** The Water Guard FS consists of a vinyl profile with integrated 1/2 in. (13 mm) wide intumescent strip applied to horizontal surface that contacts the floor. For both 1 and 2 hr rated wall assemblies, Water Guard FS is installed on the outermost layer of gypsum board on both sides of the wall. The profile is installed with the shorter leg is to be on the outer face and tight to the bottom edge of the gypsum board (Item 2D). The gap between Water Guard FS sections shall be max 1/8 in. (3 mm). The vinyl profile is attached to the gypsum board (Item 2D) in accordance with manufacturer's instructions.

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

Last Updated on 2026-09-21

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