

# XHBN7.BW-S-0024 - Joint Systems Certified for Canada

## 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

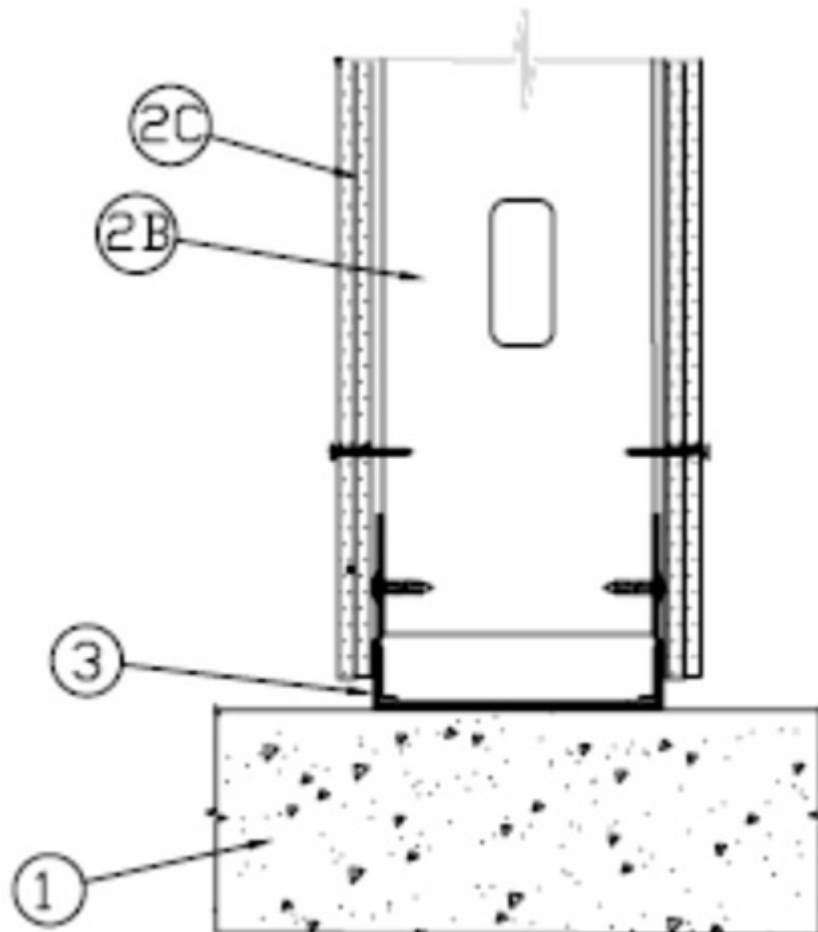
See General Information for Joint Systems

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### System No. BW-S-0024

October 28, 2019

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 — 1/2 In.	FT Ratings — 1 and 2 Hr (See Item 2)
L Rating at Ambient — Less Than 1 CFM/Lin Ft (See Item 3)	FH Ratings — 1 and 2 Hr (See Item 2)
L Rating at 400°F — Less Than 1 CFM/Lin Ft (See Item 3)	FTH Ratings — 1 and 2 Hr (See Item 2)
	Nominal Joint Width — 13mm.
	L Rating at Ambient — Less Than 1.55 L/s/m
	L Rating at 204°C — Less Than 1.55 L/s/m



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

See **Precast Concrete Units** (CFTV) category in the Fire Resistance Directory for names manufacturers.

**The hourly fire rating of the floor assembly shall be equal or greater than the hourly fire rating of the wall assembly.**

**2. Wall Assembly** — The 1 or 2 hr fire rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner described in the individual U400 or V400 Series Wall and Partition Design in the UL Fire Resistance Directory and shall include the following construction features:

**A. Steel Floor and Ceiling Runners** — Floor runners of wall assembly shall consist of min No. 25 ga galv steel channels sized to accommodate steel studs (Item 2B). Floor runner to be provided with min 1-1/4 in. (32mm) legs. Ceiling runners are provided with a fill, void or cavity material and are described in Item 3A.

**B. Studs** — Steel studs to be min 2-1/2 in. (64 mm) wide. Studs cut 1/2 to 3/4 in. (13 to 19 mm) less in length than assembly height with bottom nesting in and secured to floor runner. Steel studs nested in non-slotted ceiling runner without attachment or secured to slotted ceiling runner with No. 8 by 1/2 in. (13 mm) long wafer head steel screws at mid-height of exposed slot.

**B1. Framing Members - Steel Studs\*** — In lieu of Item B - Proprietary channel shaped studs, 3-5/8 in. wide spaced a max of 24 in. OC. Studs to be cut 1/2 to 3/4 in (13 to 19 mm) less than the assembly height with bottom nesting in and secured to floor runner. For direct attachment of gypsum board only.. Steel studs nested in non-slotted ceiling runner without attachment or secured to slotted ceiling runner with No. 8 by 1/2 in. (13 mm) long wafer head steel screws at mid-height of exposed slot.

**CALIFORNIA EXPANDED METAL PRODUCTS CO** — ViperStud™

**MARINO/WARE, DIV OF WARE INDUSTRIES INC** — ViperStud™

C. **Gypsum Board\*** — Gypsum board sheets installed to a min total 5/8in. (16 mm) or 1 1/4 in. (32 mm) thickness on each side of wall for 1 and 2 hr fire rated assemblies, respectively. Wall to be constructed as specified in the individual U400 or V400 Series Design in the UL Fire Resistance Directory except that a max 1/2 in. (13 mm) gap shall be maintained between the top of the gypsum board and the bottom of the floor assembly. The screws attaching the gypsum board to the studs along the bottom of the wall shall be located 4 to 5 in. (102 to 127 mm) up from floor at time of installation. No gypsum board attachment screws shall be driven into the floor runner.

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

3. **Joint System** — Max separation between bottom of floor and top of gypsum board (at time of installation) is 1/2 in. (13 mm).

A. **Fill, Void or Cavity Material\*** — Min 20 ga steel channel track with 3-1/4 in. or 2-1/2" (83 mm) deep legs, having a 1/2" intumescent strip affixed to the top of both flanges and sized to accommodate steel studs. Track provided with slots or without slots. Track attached to steel deck with steel fasteners or welds spaced max 24 in. (610 mm) OC.

**CALIFORNIA EXPANDED METAL PRODUCTS CO** — FAS Track 500, FAS Track 500 DL

A1. **Fill, Void or Cavity Material\*** —(alternate to item 3A) — Min 20 ga steel channel track with 1-1/4 in (32 mm) deep legs, having a 1/2 in. (13 mm) intumescent strip affixed to the back web of the track along the outer edge on both sides and sized to accommodate steel studs. Track attached to concrete deck with steel fasteners or welds spaced max 24 in. (610 mm) OC.

**CALIFORNIA EXPANDED METAL PRODUCTS CO** — FAS Track BT 1000

**MARINO/WARE, DIV OF WARE INDUSTRIES INC** — FAS Track BT 1000

A2. **Fill, Void or Cavity Material\*** — As an option to item 3A1 a min 25 ga composite steel angle with a strip of intumescent affixed on the inside 1-1/4 in (32 mm) leg. Steel angle is friction fit between the floor runner and the concrete floor on both sides of the wall.

**CALIFORNIA EXPANDED METAL PRODUCTS CO** — DDA-1 (Deflection Drift Angle)

A3. **Fill, Void or Cavity Material\*** — As an alternate to 3A, 3A1 and 3A2, For 1/2 in. (13 mm) gap, Nom., 1 in. (25.4 mm) open cell foam plug having a nom 5/16 in. (8 mm) intumescent tape applied to the top surface of the foam profile. The foam is sized for 1 or 2 hour walls and shall be placed in the joint below the bottom edge of the gypsum board between the floor assembly.

**CALIFORNIA EXPANDED METAL PRODUCTS CO** — HOT ROD Type-X

**MARINO/WARE, DIV OF WARE INDUSTRIES INC** — HOT ROD Type-X

A4. **Fill, Void or Cavity Material\*** — (Not Shown) — As an alternate to HOTROD (3A, 3A1 3A2 and 3A3) for 3/4 (19 mm) gap between the edge of the drywall and the floor/ceiling assembly shall be filled with vinyl deflection bead with 5/16 in. (8 mm) intumescent strip and foam applied to horizontal leg that runs below the edge of the drywall. The perforated leg may be attached to surface of drywall with 1/2 in. (13 mm) staples every 6-8 in. (152-203 mm).

**CALIFORNIA EXPANDED METAL PRODUCTS CO** — HOTROD XL

**TRIM-TEX INC** — Trim Tex-Hot Rod Type XL

A5. **Fill, Void or Cavity Material\*** — (Not Shown) - As an alternate to HOTROD (Item 3A4) at the 1/2 in. gap between the edge of the drywall and the floor/ceiling assembly shall be filled with vinyl deflection bead with 5/16 in. (8 mm)

intumescent strip applied to horizontal leg that runs above the edge of the drywall. The horizontal leg is sized at 5/8 in. (16 mm) for 1-hour walls and 1-1/4 in. (32 mm) for 2-hour walls. Joint compound may be applied over perforated flange and drywall.

**CALIFORNIA EXPANDED METAL PRODUCTS CO** — FIRE BEAD (Fire Rated Deflection Bead)

**TRIM-TEX INC** — Trim Tex-Fire Bead

**\* 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 2019-10-28

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