



System No. HW-D-0632
XHBN.HW-D-0632
Joint Systems

[Page Bottom](#)

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.
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XHBN - Joint Systems

[See General Information for Joint Systems](#)

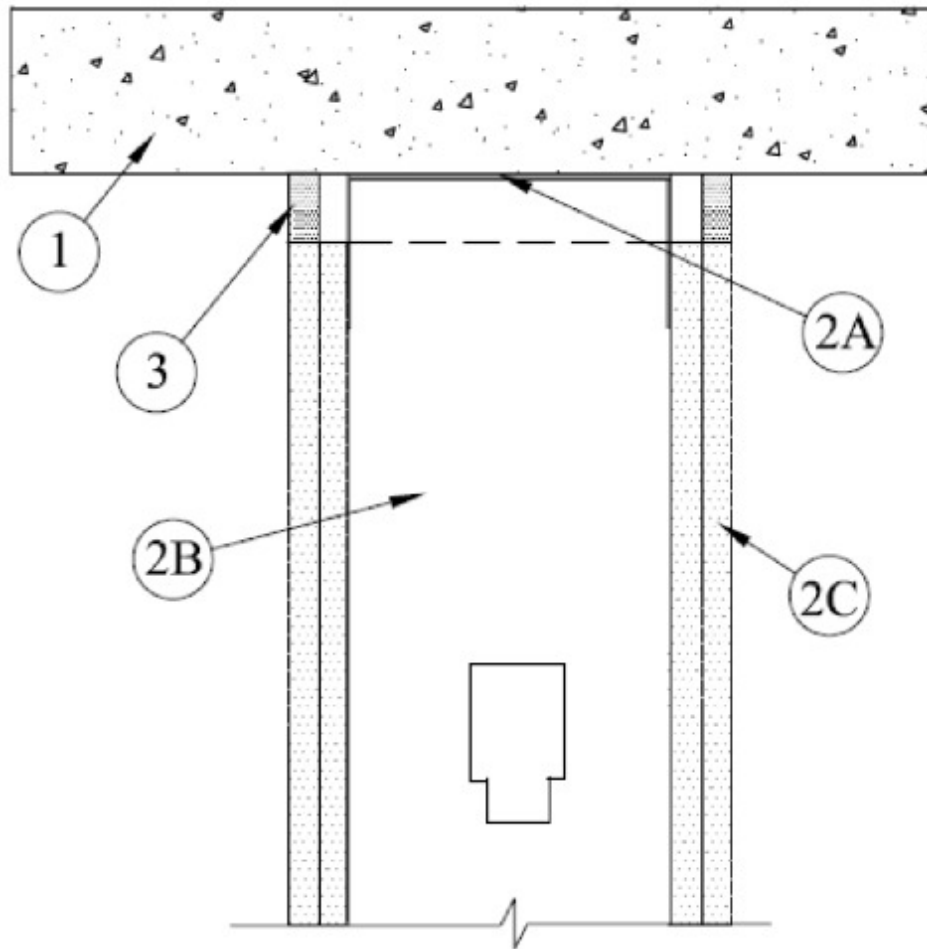
System No. HW-D-0632

April 01, 2015

Assembly Rating — 1 and 2 Hr

Nominal Joint Width — 1 In.

Class II Movement Capabilities — 25% Compression or Extension



1. **Floor Assembly** — As an alternate to Item 1, min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) structural concrete.

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

A. **Steel Floor Runners** — Floor runners of wall assembly shall consist of galv steel channels sized to accommodate steel studs (Item 2B).

B. **Light Gauge Framing* - Slotted Ceiling Runner** — Slotted ceiling runner to consist of galv steel channel with slotted flanges sized to accommodate steel studs (Item 2C). Slotted ceiling runner installed perpendicular to direction of fluted steel deck (Configuration A) and secured to valleys with typical steel fasteners or welds spaced max 24 in. (610 mm)

BLAZEFRAME INDUSTRIES — BlazeFrame BST or BST E

MRI STEEL FRAMING LLC — Smart Slotted Track

SUPER STUD BUILDING PRODUCTS — Slotted Track

C. **Studs** — Steel studs to be min 3-1/2 in. (89 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 resting on floor runner and with top nesting in ceiling runner (Item 2B) steel studs secured to slotted ceiling runner with No. 8 by 1/2 in. (13 mm) long wafer head steel screws at mid-height of slot on min. one side of wall. Stud spacing not to exceed 24 in. (610 mm) OC.

D. **Gypsum Board*** — Gypsum board sheets installed to a min total thickness of 5/8 in. (16 mm) and 1-1/4 in. (32 mm) on each side of wall for 1 and 2 hr rated assemblies, respectively. Wall to be constructed as specified in the individual Wall and Partition Design in the UL Fire Resistance Directory, except that a nom 1 in. (25 mm) gap shall be maintained between the top of the gypsum board and the bottom of the steel floor units and the top row of screws shall be installed into the studs a min of 4 in. (102 mm) below the lower surface of the floor. The hourly fire rating of the joint system is equal to the hourly fire rating of the wall.

3. **Fill, Void or Cavity Material* — Caulk or Sealant** — Max separation between bottom of floor and top of wall is 1 in. (25 mm). The joint system is designed to accommodate a max 25 percent compression or extension from its installed

width. Min 5/8 in. (16 mm) thickness of fill material installed on each side of the wall between the top of the gypsum board and the bottom of floor, flush with each surface of wall.

A/D FIRE PROTECTION SYSTEMS INC — A/D FireBarrier Acrylic Sealant

EGS NELSON FIRESTOP — ES 1399 Sealant

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP601S or CFS-S SIL GG Sealant

SPECIFIED TECHNOLOGIES INC — SpecSeal ES Sealant, Pensil 300 Sealant, SIL300 Sealant

TREMCO INC — TREMstop Acrylic or Fyre-Sil

UNITED STATES GYPSUM CO — Type A

*** 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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[Page Top](#)

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