UL Product iQ[®]

XHBN.HW-D-0190 - Joint Systems

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

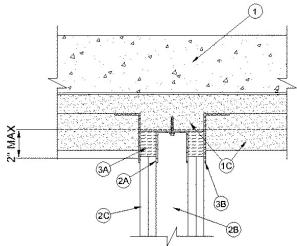
See General Information for Joint Systems

See General Information for Joint Systems Certified for Canada

System No. HW-D-0190

September 01, 2016

ANSI/UL2079	CAN/ULC \$115
Assembly Ratings — 1 and 2 Hr (See Item 2)	F Ratings — 1 and 2 Hr (See Item 2)
Nominal Joint Width - 2 In.	FT Ratings — 1 and 2 Hr (See Item 2)
Class II Movement Capabilities — 13% Compression or Extension	FH Ratings — 1 and 2 Hr (See Item 2)
L Rating At Ambient — Less Than 1 CFM/lin ft	FTH Ratings — 1 and 2 Hr (See Item 2)
L Rating At 400 F — Less Than 1 CFM/lin ft	Nominal Joint Width - 2 In.
	Class II Movement Capabilities — 13% Compression or Extension
	L Rating At Ambient — Less Than 1 CFM/lin ft
	L Rating At 400 F — Less Than 1 CFM/lin ft



- 1. Floor Assembly 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 Floor-Ceiling Design in the 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 floor units.
 - B. Concrete Min 2-1/2 in. (64 mm) thick reinforced concrete, as measured from the top plane of the floor units.
 - C. Spray-Applied Fire Resistive Material* After the installation of the ceiling runner (Item 2A), steel floor units to be sprayed with a 1-1/2 in. (38 mm) thickness of Spray-Applied Fire Resistive Material following the contour and completely filling the flutes and extending 5/8 or 1-1/4 in. (16 or 32 mm) beyond both sides of the ceiling channel, within the flute, for 1 and 2 Hr rated assemblies, respectively. Material is to be excluded from the valleys of the steel floor units, directly above the gypsum board, 5/8 or 1-1/4 in. (16 or 32 mm) from the flanges of the ceiling runners.

GCP APPLIED TECHNOLOGIES INC — Type MK-6/HY

ISOLATEK INTERNATIONAL — Type 300

- 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 specified in the individual U400, V400 or W400 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 and ceiling runner sof wall assembly shall consist of min No. 25 gauge galv steel channels sized to accommodate steel studs (Item 2B). Flange height of ceiling runner shall be min 1/4 in. (6 mm) greater than max extended joint width. Ceiling runner installed perpendicular to direction of fluted steel deck and secured to valleys with masonry anchors, steel fasteners or welds spaced max 24 in. (610 mm) OC.
 - A1. Light Gauge Framing*-Slotted Ceiling Runner (For use in applications where joint width does not exceed 1 in.) As an alternate to the ceiling runners in Item 2A and 2A1, vertical deflection ceiling runner to consist of galv steel channel with slotted vertical deflection cips mechanically fastened within runner. Slotted clips, provided with stee bushings, for permanent fastening of steel studs. Flanges sized to accommodate steel studs (Item 2B). Vertical deflection ceiling runner installed perpendicular to direction of fluted steel deck and secured to valleys with steel masony anchors, steel fasteners or welds spaced max 24 in. (610 mm) OC.

 BRADY CONSTRUCTION INNOVATIONS INC. DBA SUPTRACK SYSTEMS SIP-TRK

CALIFORNIA EXPANDED METAL PRODUCTS CO — CST

CLARKDIETRICH BUILDING SYSTEMS — Type SLT, SLT-H

SCAFCO STEEL STUD MANUFACTURING CO

 ${\bf MARINO/WARE,\,DIV\,OF\,\,WARE\,\,INDUSTRIES\,\,INC-} {\it Type\,\,SLT}$

RAM SALES L L C — RAM Slotted Track

TELLING INDUSTRIES L L C — True-Action Deflection Track

A2. Light Gauge Framing*-Vertical Deflection Ceiling Runner (For use in applications where joint width does not exceed 1 in.) — As an alternate to the ceiling runners in Item 2A and 2A1, vertical deflection ceiling runner to consist of galv steel channel with slotted vertical deflection clips mechanically fastened within runner. Slotted clips, provided with step bushings, for permanent fastening of steel studs. Flanges sized to accommodate steel studs (Item 2B). Vertical deflection ceiling runner installed perpendicular to direction of fluted steel deck and secured to valleys with steel masonry anchors, steel fasteners or welds spaced max 24 in. (610 mm) OC.
THE STEEL NETWORK INC — VertiTrack VTD25. VTD362. VTD360. V

A3. Light Gauge Framing*- Notched Ceiling Runner — As an alternate to the ceiling runners in Items 2A through 2A2, notched ceiling runners to consist of C-shaped galv steel channel with notched return flanges sized to accommodate steel studs (Item 2B). Notched ceiling runner installed perpendicular to direction of fluted steel deck and secured to valleys with steel masonry anchors, steel fasteners or welds spaced max 24 in. (610 mm) OC.

OLMAR SUPPLY INC — Type SCR

- 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 resting on the floor runner and with top nesting in ceiling runner without attachment. When slotted ceiling runner (Item 2A) is used, steel studs secured to slotted ceiling runner with No. 8 by 1/2 in. (13 mm) long wafer head steel screws at midheight of slot on each side of wall. When vertical deflection ceiling runner (Item 2A) is used, steel studs secured to slotted vertical deflection clips, through bushings, with steel screws at midheight of each slot, Stud spacing not to exceed 24 in. (610 mm) OC.
- C. **Gypsum Board*** One or two layers of 5/8 in. (16 mm) thick gypsum board on each side of wall. Wall to be constructed as specified in the individual Wall and Partition Design, except that a max 2 in. (51 mm) gap shall be maintained between top of gypsum board and bottom plane of steel floor units and the top row of screws shall be installed into the studs 4 in. (102 mm) below the bottom plane of the steel floor units.

 The hourly ratings of the joint reystem are dependent on the hourly rating of the wall.
- 3. Joint System Max separation between bottom of floor or roof units and top of gypsum board at time of installation is 2 in. (51 mm). The joint system is designed to accommodate a max of 12.5 percent compression or extension from its installed width. The joint system consists of a forming material and a fill material between the top of the gypsum board and the bottom of the floor, as follows:
 - A. Forming Material* Min 4 pcf (64 kg/m³) mineral wool batt insulation shall be cut into strips to fill the gap between the top of the gypsum board and bottom of the floor units. The width of the strips shall be equal to the total thickness of the gypsum board. The strips of mineral wool are compressed 50 percent in thickness and firmly packed into the gap between the top of the gypsum board and bottom of the floor units.

 ROCK WOOL MANUFACTURING CO Delta Board

ROCKWOOL — SAFE

 $\mathbf{THERMAFIBER\ INC} - \mathsf{Type\ SAF}$

B. Fill, Void or Cavity Material*- Sealant — A min 1/16 in. (1.6 mm) dry thickness (min 1/8 in. or 3.2 mm wet thickness) of fill material sprayed of troweled on each side of wall to completely cover mineral wool forming material and to overlap 1/2 in. (13 mm) onto gypsum and 2 in. (51 mm) onto spray-applied fire resistive material.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CPST2 Firestop Spray or CFS-SP WB Firestop Joint Spray

* 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 2016-09-01

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