



**System No. HW-D-0120**  
**XHBN7.HW-D-0120**  
**Joint Systems Certified for Canada**

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**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**

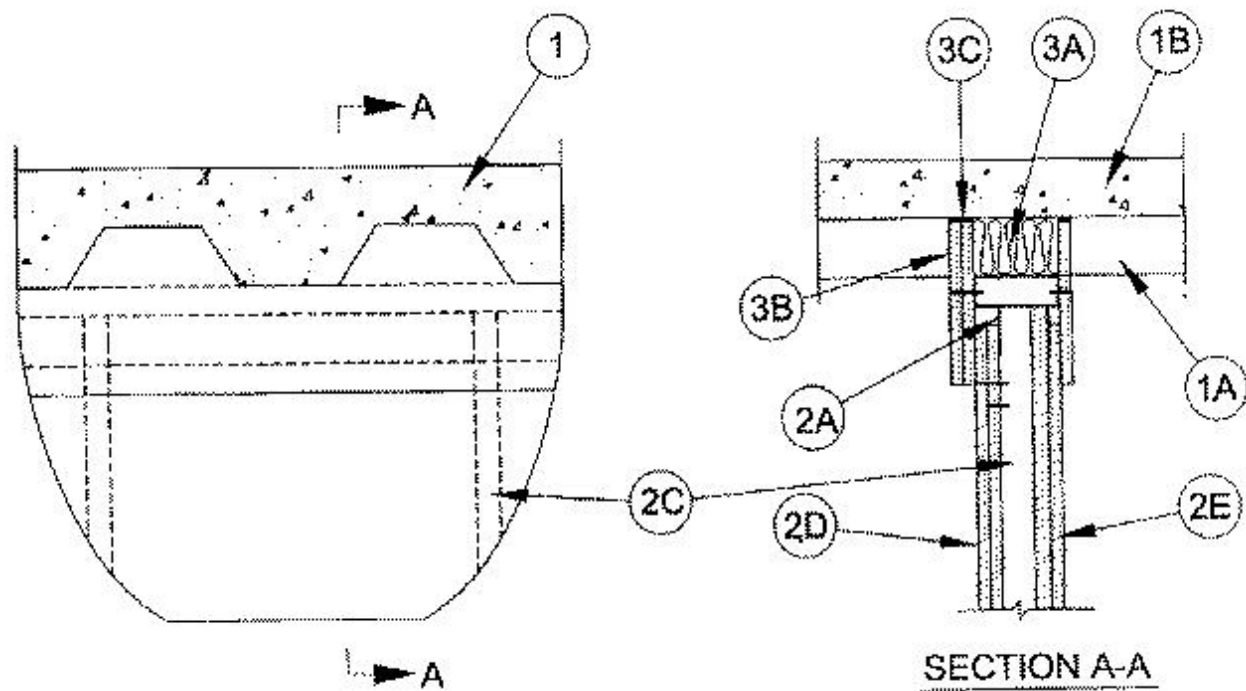
[See General Information for Joint Systems](#)

[See General Information for Joint Systems Certified for Canada](#)

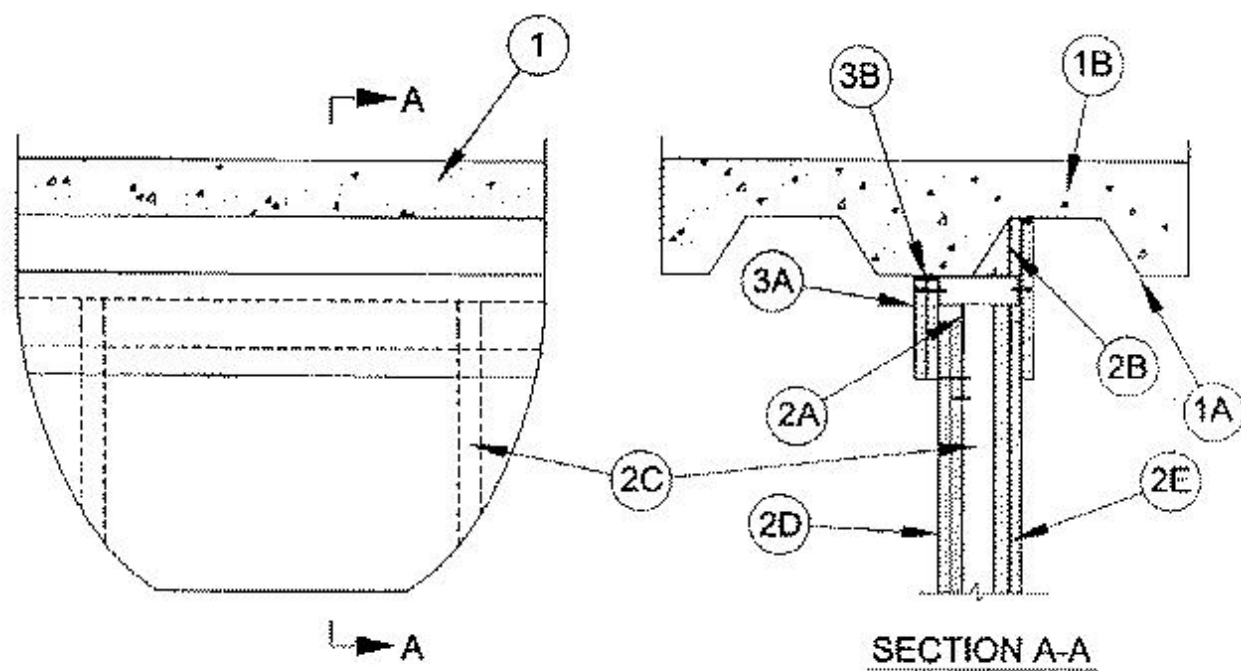
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January 26, 2015

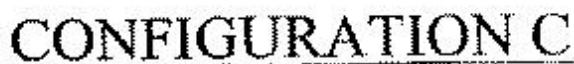
<b>ANSI/UL2079</b>	<b>CAN/ULC S115</b>
Assembly Ratings — 1, 2 and 3 Hr (See Item 2)	F Ratings — 1, 2 and 3 Hr (See Item 2)
Nominal Joint Width - 1 In.	FT Ratings — 1, 2 and 3 Hr (See Item 2)
Class II or III Movement Capabilities — 100% Compression or Extension	FH Ratings — 1, 2 and 3 Hr (See Item 2)
	FTH Ratings — 1, 2 and 3 Hr (See Item 2)
	Nominal Joint Width - 1 In.
	Class II or III Movement Capabilities — 100% Compression or Extension



CONFIGURATION A



CONFIGURATION B



**FIRE TRAK CORP** — Cavity Shadowline

**B. Z-Furring - (Parallel Units)** — When trak is installed parallel to floor units, Z-Furring clips are attached to the bottom of the floor units within the crests with two steel fasteners. Clip spacing not to exceed 24 in. (610 mm) OC.

**FIRE TRAK CORP** — Z-Furring Clips

**C. Studs** — Steel studs to be min 2-1/2 in. (64 mm) wide and as specified in the individual Wall and Partition Design in the UL Fire Resistance Directory. Studs cut 1-1/2 in. (38 mm) less in length than the assembly height with bottom nesting in and resting on floor runner and with top nesting in ceiling runner without attachment. Stud spacing not to exceed 24 in. (610 mm) OC.

**D. Gypsum Board\*** — Gypsum board sheets installed and attached to studs and runners as specified in the individual Wall and Partition Design in the UL Fire Resistance Directory, except that a nominal 1 in. (25 mm) gap shall be maintained between top of the gypsum board and the bottom flange of the deflection trak. Top row of screws shall be installed into the studs 3 in. (76 mm) below the top edge of the gypsum board sheets.

**E. Gypsum Board\*** — 1 in. (25 mm) thick gypsum board liner panels, supplied in nom 24 in. (610 mm) widths. Panels cut 1 in. (25 mm) less in length than floor to ceiling height. Gypsum board sheets installed and attached to studs and runners as specified in the individual Wall and Partition Design in the UL Fire Resistance Directory.

**The hourly ratings of the joint are equal to the fire rating of the wall.**

#### **Firestop Configuration A**

**3. Joint System — Max separation between bottom flange of the deflection trak and top of gypsum board (at the time of installation of the joint system) is 1 in. (25 mm). The joint system is designed to accommodate a max 100 percent compression or extension from its installed width.** The joint system consists of packing material (Item 3A), wall cladding (Item 3B) and a fill material (Item 3C) as follows:

**A. Packing Material** — Min 4 pcf (64 kg/m<sup>3</sup>) density mineral wool batt insulation cut to the shape of the fluted deck, 25 percent larger than the area of the flutes and compressed into the flutes of the steel floor units above the ceiling runner as a permanent form.

**B. Wall Cladding** — Strips of the gypsum board material cut to the contour of the steel floor units and attached to the deflection trak on both sides of wall. The number of layers, board type and thickness and fastener type shall be as specified for the gypsum board in the individual Wall and Partition Design in the UL Fire Resistance Directory. Fasteners shall be max spaced 3 in. (76 mm) OC. The top of the wall cladding shall be recessed min 1/8 in. (3.2 mm) to max 1/2 in. (13 mm) from the steel floor units and overlap the gypsum board 4 in. (102 mm) on both sides of wall.

**C. Fill, Void or Cavity Material\*** — Full depth of fill material installed on each side of the wall between the top of the wall cladding and the surface of the steel floor units, flush with each surface of the cladding.

**A/D FIRE PROTECTION SYSTEMS INC** — A/D FireBarrier Seal N/S, A/D FireBarrier Silicone

**DAP PRODUCTS INC** — DAP Firestop Sealant

**EGS NELSON FIRESTOP** — ES 1399 Sealant

**HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC** — CP601S, CFS-S SIL GG, CP606, FS611A, FS-ONE Sealant or FS-ONE MAX Intumescent Sealant

**JOHNS MANVILLE** — Firetemp CI

**3M COMPANY** — FB 1000NS, FB 2000, FB 2000+, FD-10+, CP 25 WB+

**NATIONAL GYPSUM CO** — FS-90

**NUCO INC** — Self Seal GG-200

**PASSIVE FIRE PROTECTION PARTNERS** — 4100NS, 4800DW

**RECTORSEAL** — Metacaulk 835+, Metacaulk 1000, Biostop 500+ Caulk, Biotherm 100, FS1900, FS4000

**SPECIFIED TECHNOLOGIES INC** — SpecSeal ES Sealant

**TREMCO INC** — TREMstop Acrylic

**UNITED STATES GYPSUM CO** — FC, RFC

#### **Firestop Configuration B**

**3. Joint System — Max separation between bottom flange of the deflection trak and top of gypsum board (at the time of installation of the joint system) is 1 in. (25 mm). The joint system is designed to accommodate a max 100 percent compression or extension from its installed width.** The joint system consists of wall cladding (Item 3A) and a fill material (Item 3B) as follows:

**A. Wall Cladding** — Strips of the gypsum board material attached to the deflection trak on both sides of wall. The number of layers, board type and thickness and fastener type shall be as specified for the gypsum board in the individual Wall and Partition Design in the UL Fire Resistance Directory. Fasteners shall be max spaced 3 in. (76 mm) OC. The top of the wall cladding shall be recessed min 1/8 in. (3.2 mm) to max 1/2 in. (13 mm) from the steel floor units and overlap the gypsum board 4 in. (102 mm) on both sides of wall.

**B. Fill, Void or Cavity Material\*** — Full depth of fill material installed on each side of the wall between the top of the wall cladding and the bottom of the floor assembly, flush with each surface of the cladding.

**A/D FIRE PROTECTION SYSTEMS INC** — A/D FireBarrier Seal N/S, A/D FireBarrier Silicone

**DAP PRODUCTS INC** — DAP Firestop Sealant

**EGS NELSON FIRESTOP** — ES 1399 Sealant

**HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC** — CP601S, CFS-S SIL GG, CP606, FS611A, FS-ONE Sealant or FS-ONE MAX Intumescent Sealant

**JOHNS MANVILLE** — Firetemp CI

**3M COMPANY** — FB 1000NS, FB 2000, FB 2000+, FD-10+, CP 25 WB+

**NATIONAL GYPSUM CO** — FS-90

**NUCO INC** — Self Seal GG-200

**PASSIVE FIRE PROTECTION PARTNERS** — 4100NS, 4800DW

**RECTORSEAL** — Metacaulk 835+, Metacaulk 1000, Biostop 500+ Caulk, Biotherm 100, FS1900, FS4000

**SPECIFIED TECHNOLOGIES INC** — SpecSeal ES Sealant

**TREMCO INC** — TREMstop Acrylic

**UNITED STATES GYPSUM CO** — FC, RFC

## Firestop Configuration C

**3. Joint System — Max separation between bottom flange of the deflection trak and top of gypsum board (at the time of installation of the joint system) is 1 in. (25 mm). The joint system is designed to accommodate a max 100 percent compression or extension from its installed width.** The joint system consists of spray applied fire resistive material (Item 3A), and wall cladding (Item 3B) as follows:

**A. Wall Cladding** — Strips of the gypsum board material attached to the deflection trak on both sides of wall. The number of layers, board type and thickness and fastener type shall be as specified for the gypsum board in the individual Wall and Partition Design in the UL Fire Resistance Directory. Fasteners shall be max spaced 3 in. (76 mm) OC. The top of the wall cladding shall be recessed min 1/8 in. (3.2 mm) to max 1/2 in. (13 mm) from the bottom of the concrete floor and overlap the gypsum board 4 in. (102 mm) on both sides of wall.

**B. Fill, Void or Cavity Material\*** — Full depth of fill material installed on each side of the wall between the top of the wall cladding and the surface of the steel floor units, flush with each surface of the cladding.

**A/D FIRE PROTECTION SYSTEMS INC** — A/D FireBarrier Seal N/S, A/D FireBarrier Silicone

**DAP PRODUCTS INC** — DAP Firestop Sealant

**EGS NELSON FIRESTOP** — ES 1399 Sealant

**HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC** — CP601S, CFS-S SIL GG, CP606, FS611A, FS-ONE or FS-ONE MAX Intumescent Sealant

**JOHNS MANVILLE** — Firetemp CI

**3M COMPANY** — FB 1000NS, FB 2000, FB 2000+, FD-10+, CP 25 WB+

**NATIONAL GYPSUM CO** — FS-90

**NUCO INC** — Self Seal GG-200

**PASSIVE FIRE PROTECTION PARTNERS** — 4100NS, 4800DW

**RECTORSEAL** — Metacaulk 835+, Metacaulk 1000, Biostop 500+ Caulk, Biotherm 100, FS1900, FS4000

**SPECIFIED TECHNOLOGIES INC** — SpecSeal ES Sealant

**TREMCO INC** — TREMstop Acrylic

**UNITED STATES GYPSUM CO** — FC, RFC

**\* 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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