



**System No. FF-D-1140
XHBN.FF-D-1140
Joint Systems**

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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

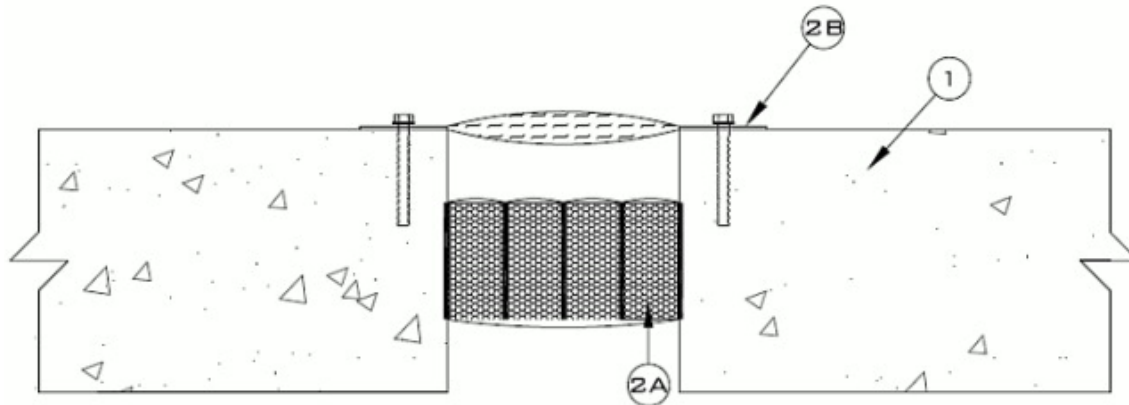
[See General Information for Joint Systems](#)

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

System No. FF-D-1140

November 01, 2013

ANSI/UL2079	CAN/ULC S115
Assembly Rating - 2 Hr	F Rating - 2 Hr
Nominal Joint Width — 4in.	FT Rating - 2 Hr
Class II and III Movement Capabilities - 50 % Compression or Extension	FH Rating - 0 Hr
	FTH Rating - 0 Hr
	Nominal Joint Width — 102 mm
	Class II and III Movement Capabilities — 50 % Compression or Extension



1. **Floor Assembly** — Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete.

2. **Joint System** — Nominal width of joint (at time of installation of joint system) is 4 in. (102 mm) The joint system is designed to accommodate a max 50 percent compression and 50 extension from its installed width. Installation width may exceed or be less than 4 in (102 mm) provided installation width plus max. extension width does not exceed 6 in. (153 mm). The joint system shall consist of the following:

A. **Mechanical Joint Assembly*** — Flexible multiple layer mat and pillow installed in accordance with the installation instructions accompanying the units.

BALCO INC — MetaBlock™

B. **Joint Cover** — Flexible insulated foil cover nom 8 in. (203 mm) wide joint cover formed from layers of aluminum, or stainless steel foil with insulation layer. Cover secured 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.**

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