**System No. FF-D-1141**

**XHBN.FF-D-1141**

**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.

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### 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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**System No. FF-D-1141**

January 17, 2014

<table>
<thead>
<tr>
<th>ANSI/UL2079</th>
<th>CAN/ULC S115</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assembly Rating — 2 Hr</td>
<td>F Rating — 2 Hr</td>
</tr>
<tr>
<td>Nominal Joint Width — 2 - 4 in.</td>
<td>FT Rating — 2 Hr</td>
</tr>
<tr>
<td>Class II or III Movement Capabilities — 50% Compression or 50 % Extension</td>
<td>FH Rating — 0 Hr</td>
</tr>
<tr>
<td></td>
<td>FTH Rating — 0 Hr</td>
</tr>
<tr>
<td>Nominal Joint Width — 51-102 mm</td>
<td>Class II or III Movement Capabilities — 50 % Compression or 50% Extension</td>
</tr>
</tbody>
</table>
1. **Floor Assembly** — Min 6-in. (152 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete.

2. **Joint System** — Nominal width of joint is 2 in. (50 mm). The joint system is designed to accommodate a max 50 percent compression or extension from its installed width. Installation width may exceed or be less than nominal 2 in (51 mm) provided installation width plus max extension width does not exceed 4 in. (102). 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. **Epoxy Adhesive** — (Not shown) — Consists of two parts; part A (base), and part B (hardener) or one part gun grade adhesive. The adhesive is supplied by joint system manufacturer, and installed in accordance with accompanying installation.

   C. **Joint cover** — Compressed 4 in. (102 mm) deep foam uncoated or coated on one or both sides with a factory applied sealant. Foam is installed in joint opening as a permanent form.

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.