



System No. HW-D-1087
XHBN.HW-D-1087
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

[See General Information for Joint Systems](#)

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October 29, 2009

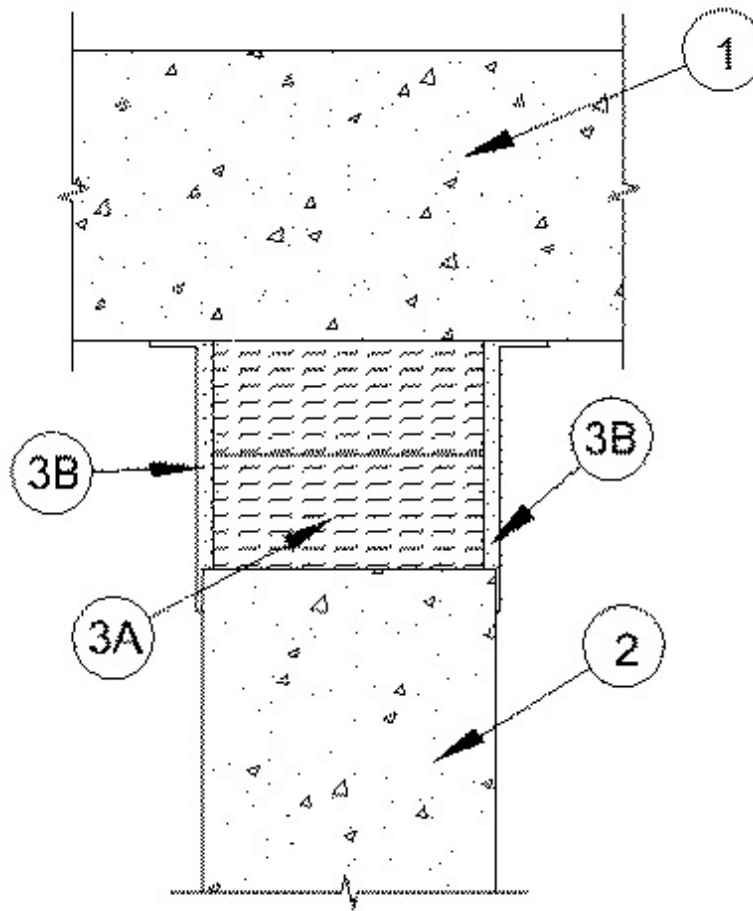
Assembly Rating — 2 Hr

L Rating at Ambient - Less than 1 CFM/Lin. Ft.

L Rating at 400°F - Less than 1 CFM/Lin. Ft.

Nominal Joint Width - 3-1/2 In.

Class II Movement Capabilities - 14% Compression and Extension



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

2. **Wall Assembly** — Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf (1600-2400 kg/cu meter)) structural concrete. Wall may also be constructed of any UL Classified **Concrete Blocks***.

See **Concrete Blocks** (CAZT) category in the Fire Resistance Directory for names of manufacturers.

3. **Joint System** — **Max width of joint (at time of installation of joint system) in 3-1/2 in. (89 mm). The joint system is designed to accommodate a max 14 percent compression or extension from its installed width.**
The joint system shall consist of the following:

A. **Forming Material*** — Min 4.0 pcf (64 kg/cu meter) mineral wool insulation installed in joint opening as a permanent form. Pieces of batt cut to min width of 4 in. (102 mm) and installed edge-first into the joint opening, parallel with the joint direction, such that batt sections are compressed min 56 percent in thickness and that the compressed batt sections are recessed from each surface of wall as required to accommodate the required thickness of fill material. Adjoining lengths of batt to be tightly-buttressed with buttressed seams spaced min 24 in. (610 mm) apart along the length of the joint.

ROCK WOOL MANUFACTURING CO — Delta Board

B. **Fill, Void or Cavity Material*** — Sealant — Min 1/8 in. (3 mm) wet thickness of fill material sprayed or brush applied to completely cover mineral wool and lapping a min 1 in. (25 mm) onto concrete floor and wall.

A/D FIRE PROTECTION SYSTEMS INC — A/D FIREBARRIER Spray Acrylic

*** 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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