

Joint Systems

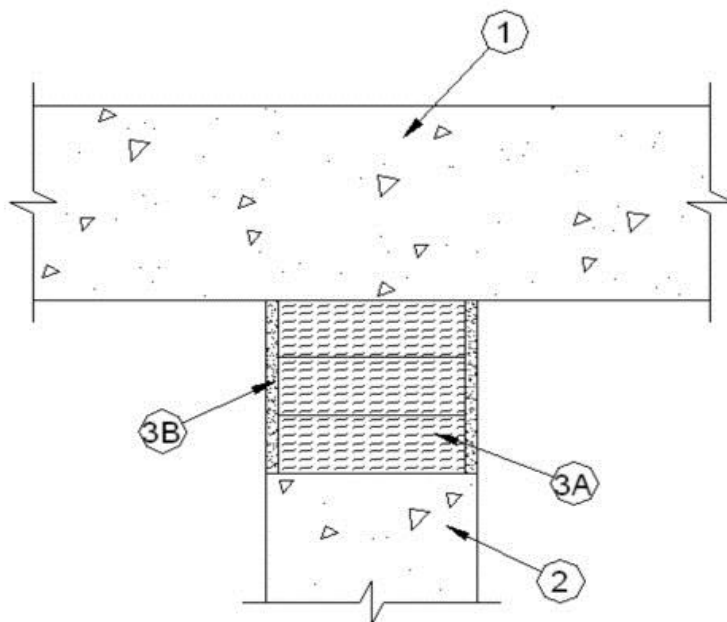
System No. HW-D-1071

July 02, 2008

Assembly Rating—3 Hr

Nominal Joint Width— 2 and 3-1/2 In. (See Item 3A)

Class II Movement Capabilities—15% 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) structural concrete. Floor may also be constructed of any min 6 in. (152 mm) thick UL Classified hollow-core **Precast Concrete Units***

See **Precast Concrete Units (CFTV)** category in the Fire Resistance Directory for names of manufacturers.

2. **Wall Assembly** — Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) 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 separation between bottom of floor and top of wall (at time of installation of joint system) is dependent upon the type of forming material used within the joint system as shown

on Item 3A. The joint system is designed to accommodate a max 15 percent compression or extension from it's installed width. The joint system shall consist of the following:

A. Forming Material* — Min 4 pcf (64 kg/m³) mineral wool batt 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 joint opening, parallel with joint direction, such that batt sections are compressed min 42 percent in thickness and that the compressed batt sections are recessed from each surface of the wall as required to accommodate the required thickness of fill material. Adjoining lengths of batt to be tightly-buttressed with butted seams spaced min 24 in. (610 mm) apart along the length of the joint.

Max width of joint (at time of installation of joint system) is dependent upon the manufacturer and type of forming used within the joint system as shown in the table below:

Manufacturer of Forming Material	Type of Forming Material	Width of Joint, In. (mm)
FBX Insulation	FBX Safing Insulation	3-1/2 (89)
W R Grace	FlameSafe Mineral Wool	3-1/2 (89)
Roxul	SAFE Mineral Wool	2 (51)

FIBREX INSULATIONS INC — FBX Safing Insulation

ROXUL INC — SAFE Mineral Wool

W R GRACE & CO - CONN — FlameSafe Mineral Wool

B. Fill, Void or Cavity Material*—Sealant — Min 1/4 in. (6 mm) thickness of fill material applied within the joint, flush with each surface of wall.

ACCUMETRIC L L C — Boss 816

*Bearing the UL Classification Mark