System No. FW-D-1020

May 27, 2014

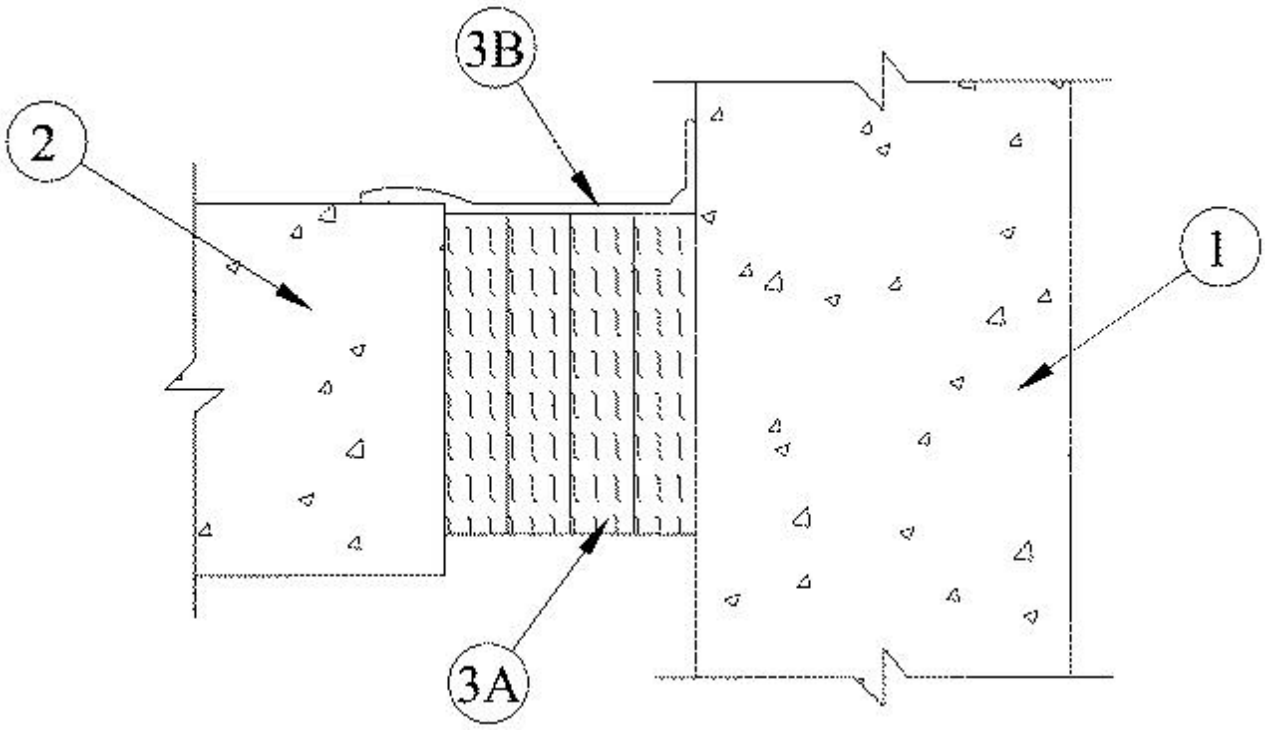
Assembly Rating—3 Hr

L Rating at Ambient — Less than 1 CFM/Lin Ft

L Rating at 400 F — Less than 1 CFM/Lin Ft

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

Class II Movement Capabilities—15% Compression or Extension



1. **Wall Assembly —** Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100 - 150 pcf or 1600-2400 kg/m^3) 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.

2. **Floor Assembly —** Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100 - 150 pcf or 1600-2400 kg/m^3) structural concrete.

3. **Joint System — Max separation between edge of floor and face of wall (at time of installation of joint system) is dependent upon the type and manufacturer of the forming material used within the joint system as shown in Item 3A . The joint system is designed to accommodate a max 15 percent compression of extension from it's installed width.** The joint system shall consist of the following:

A. **Forming Material* —** Min 4 pcf (64 kg/m^3) 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 top surface of the floor as required to accommodate the required thickness of fill material. Adjoining lengths of batt to be tightly-butted 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	Max width of Joint, In.
FBX Insulation	FBX Safing Insulation	3-1/2
IIG Minwool L L C	MinWool-1200 Safing	2
Rock Wool Manufacturing	Delta Safing	2
Roxul	SAFE Mineral Wool	2
Thermafiber	SAF Mineral Wool	2

IIG MINWOOL L L C — MinWool-1200 Safing

ROCK WOOL MANUFACTURING CO — Delta Safing Insulation

ROCKWOOL MALAYSIA SDN BHD — SAFE Mineral Wool

ROXUL INC — SAFE Mineral Wool

THERMAFIBER INC — SAF Mineral Wool

B. **Fill, Void or Cavity Material*— Spray —** Min 1/8 in. (3.2 mm) wet thickness of fill material applied within the joint, flush with top surface of floor and lapping a min 1/2 in. onto the top surface of the floor and side of wall.

RECTORSEAL — FlameSafe FS3000, Metacaulk 1200, 1500 or Biostop 750, 800 Spray

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