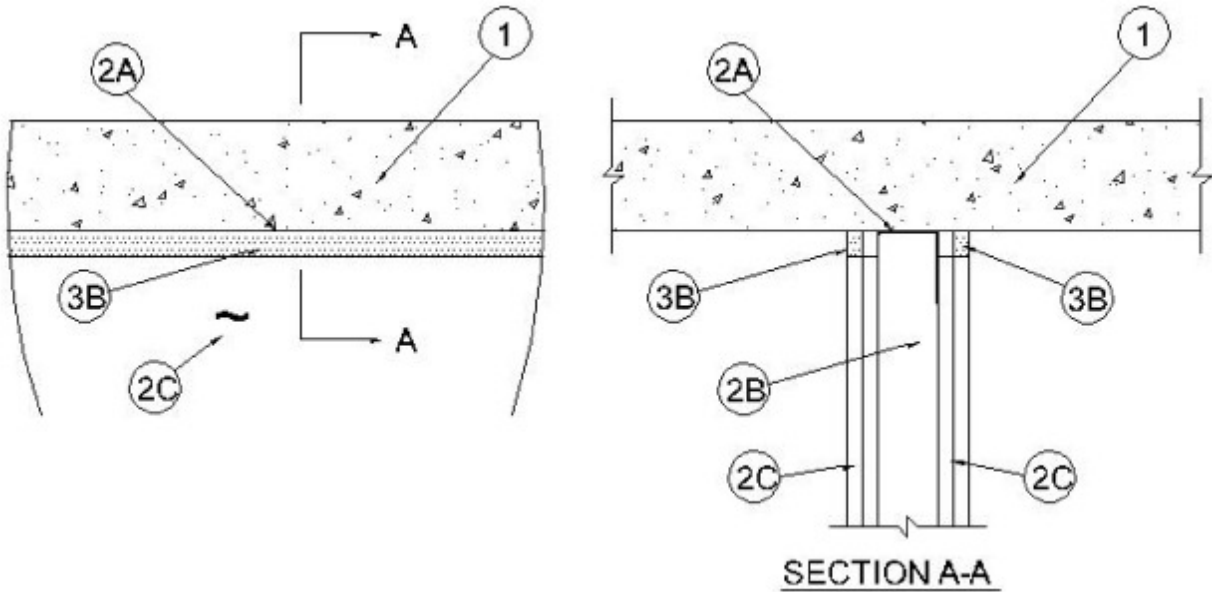




System No. HW-D-0216

May 14, 2014

ANSI/UL2079	CAN/ULC S115
Assembly Rating — 1 and 2 Hr (See Item 2)	F Rating — 1 and 2 Hr (See Item 2)
Nominal Joint Width — 3/4 In.	FT Rating — 1 and 2 Hr (See Item 2)
Class II or III Movement Capabilities — 20% Compression or Extension	FH Rating — 1 and 2 Hr (See Item 2)
	FTH Rating — 1 and 2 Hr (See Item 2)
	Nominal Joint Width — 19 mm
	Class II or III Movement Capabilities — 20% 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 or any UL Classified **Concrete Blocks***.

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

2. **Wall Assembly** — The 1 or 2 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U400 Series Wall and Partition. Designs in the UL Fire Resistance Directory and shall include the following construction features:

A. Steel Floor And Ceiling Runners — Floor and ceiling runners of wall assembly shall consist of galv steel channels sized to accommodate steel studs (Item 2B). Ceiling runner to be provided with 3 in. (76 mm) flanges. When U-shaped deflection channel (Item 3A) is used, ceiling runner installed within the deflection channel with 3/4 in. (19 mm) gap maintained between the top of ceiling runner and top of deflection channel. When deflection channel is not used, ceiling runner shall be secured to floor with steel fasteners spaced max 24 in. (610 mm) OC.

B. Studs — Steel studs to be min 3-1/2 in. (89 mm) wide. Studs cut 1-1/2 in. (38 mm) less in length than assembly height with bottom nesting in and resting on floor runner and with top nesting in ceiling runner. Studs secured only to floor runner with sheet metal screw. Stud spacing not to exceed 24 in. (610 mm) OC.

C. Gypsum Board* — Gypsum board sheets installed to a min total thickness of 5/8 in. (16

mm) or 1-1/4 in. (32 mm) on each side of wall, for 1 and 2 hr wall assemblies, respectively. Wall to be constructed as specified in the individual Wall and Partition Design in the UL Fire Resistance Directory, except that a nom 3/4 in. (19 mm) gap shall be maintained between the top of the gypsum board and the bottom of the floor and the top row of screws shall be installed into the studs 3-1/2 in. (89 mm) below the lower surface the floor.

The hourly assembly rating of the joint system is equal to the fire rating of the wall.

3. Joint System Max separation between bottom of floor and top of wall at time of installation of joint system is 3/4 in. (19 mm). The joint system is designed to accommodate a max 20 percent compression or extension from its installed width. The joint system consists of a fill material, as follows:

A. Deflection Channel — (Optional, Not Shown) A nom 3-11/16 in. (94 mm) wide by 3 in. (76 mm) deep min No. 22 gauge steel U-shaped channel. Deflection channel secured to concrete floor with steel fasteners or min 3/16 in. (4.8 mm) diam steel masonry anchors spaced max 12 in. (305 mm) OC. The ceiling runner (Item 2A) is installed within the deflection channel to maintain a 3/4 in. (19 mm) gap between the top of the ceiling runner and the top of the deflection channel. The ceiling runner is not fastened to the deflection channel.

B. Fill, Void or Cavity Material* - Caulk — Min 5/8 in. (16 mm) thickness of fill material applied within the joint, flush with both surfaces of wall.

RECTORSEAL — BF 150+, Biostop 750

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