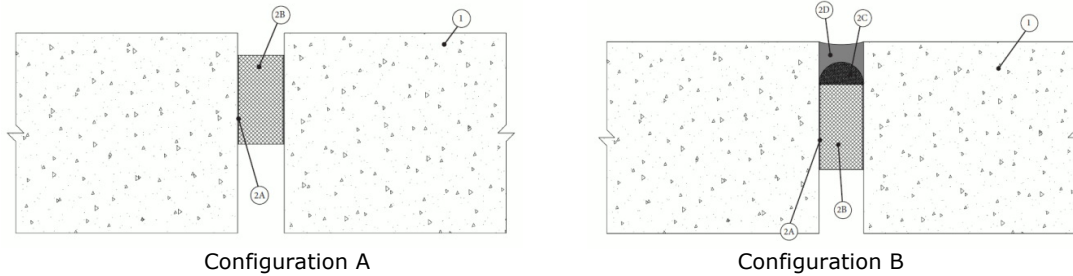


## System No. WW-D-0165

December 5, 2013

**Assembly Rating — 1 or 2 Hr (See Item 2)**  
**Nominal Joint Width — 1/2 to 1-1/4 in.**

**Class II and III Movement Capabilities**  
**(A) 25% Compression or Extension (B) 50% Compression or Extension**



**1. Wall Assembly** — The 1 or 2 hr fire rated gypsum wallboard/steel stud wall assembly shall be constructed of the materials and in the manner described in the individual U300, U400, V400 or W400 -Series Wall or Partition Design in the UL Fire Resistance Directory and shall include the following construction features:

**A. Studs** — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in.(50 by 100 mm) (or larger) lumber spaced 16 in. (400 mm) OC. Steel studs to be min 3-5/8 in. (92 mm) wide and spaced max 24 in. (610 mm) OC.

**B. Gypsum Board\*** — Wallboard sheets to be installed to a min total thickness of 5/8 (15.9 mm) or 1-1/4 in. (31.75 mm) on each side of the wall for a 1 or 2 hr rated assemblies, respectively. Additional wallboard sheets installed to a min total thickness of 5/8 (15.9 mm) or 1-1/4 in. (31.75 mm) within the opening on each side of opening for a 1 or 2 hr rated assemblies, respectively.

**The hourly fire rating of the joint system is dependent on the hourly fire rating of the wall.**

**2. Joint System** — (A) Nominal width of joint is 1/2 to 1-1/4 in. (13 to 32 mm). The joint system is designed to accommodate a max 25 percent compression or extension from its installed width. (B) Nominal width of joint is 1/2 to 1 in. (13 to 25 mm). The joint system is designed to accommodate a max 50 percent compression or extension from its installed width. The joint system shall consist of the following:

Configuration A: 1 Hr Rated

**A. Epoxy Adhesive** — 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.

**B. Mechanical Joint Assembly\*** — Compressed, fire-retardant impregnated, 2 in. (51 mm) deep foam for max 1-1/4 in. (32 mm) joints uncoated or coated on one or both sides with factory applied sealant. Foam is installed in joint opening as a permanent form.

**WILLSEAL L L C** — FR Joint, FR Joint UC

Configuration B: 2 Hr Rated

**A. Epoxy Adhesive** — 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 installation instructions.

**B. Mechanical Joint Assembly\*** — Compressed, fire-retardant impregnated, 2 in. (51 mm) deep foam for max 1-1/4 in. (32 mm) joints. Foam is installed in joint opening as a permanent form recessed from surface of wall to accommodate the thickness of sealant Item 2D.

**WILLSEAL L L C** — FR Joint UC

**C. Packing Material** — (Optional) — Foam backer rod firmly packed into opening as a permanent form. Packing material to be recessed from one or both surfaces of floor as required to accommodate the required thickness of sealant.

**D. Sealant** — Min 1/2 in. (13 mm) deep sealant band and corner bead supplied by joint system manufacturer, and installed on one or both surfaces of wall in accordance with accompanying installation instructions.

\*Bearing the UL Classification Mark

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