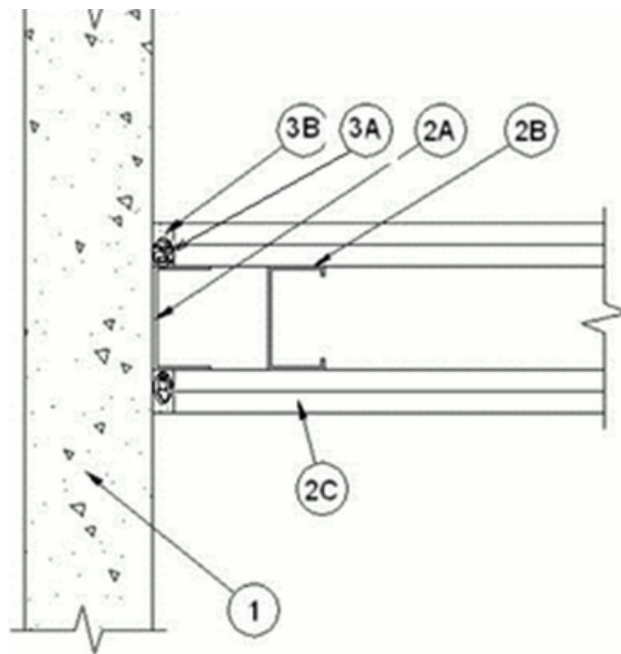


ANSI/UL2079	CAN/ULC S115
Assembly Rating — 1 and 2 Hr (See Item 2)	F Rating — 1 and 2 Hr (see Item 2)
Nominal Joint Width — 1 in.	FT Rating — 1 and 2 Hr (see Item 2)
Class II or III Movement Capabilities — 20 % Compression or Extension	FH Rating — 1 and 2 Hr (see Item 2)
	FTH Rating — 1 and 2 Hr (see Item 2)
	Nominal Joint Width — 25.4 mm
	Class II or III Movement Capabilities — 20 % Compression or Extension



1. **Concrete Wall Assembly** — Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m<sup>3</sup>) 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. **Gypsum Wall Assembly** — The 1 or 2 h fire-rated gypsum board/steel stud wall assembly shall be constructed of the materials and in the manner specified in the individual U400 Series Wall and Partition Design in the UL Fire Resistance Directory. The wall may be perpendicular or parallel to concrete wall and shall include the following construction features:

A. **Steel Runners** — Runners of wall assembly shall consist of min No. 25 gauge galv steel channels sized to accommodate steel studs (Item 2B). Runner to be provided with min 2. (51 mm) flanges. Runner secured to concrete wall assembly with steel concrete fasteners spaced 24 in. (610 mm) OC.

B. **Studs** — Steel studs to be min 3-1/2 in. (89 mm) wide. First stud adjacent to concrete wall assembly located max 4 in. (102 mm) from wall face. Stud spacing not to exceed 24 in. (610 mm) OC.

C. **Gypsum Board\*** — For 1 hr assembly, one layer of 5/8 in. (16 mm) thick gypsum board is required in the individual Wall and Partition Design. For 2 hr assembly, two layers of 5/8 in. (16 mm) thick gypsum board are required in the individual Wall and Partition Design. Wall to be constructed as specified in the individual U400 Series Design in the UL Fire Resistance Directory, except that a max 1 in. (25 mm) gap shall be maintained between the side of gypsum board and face of concrete wall assembly. The screws attaching the gypsum board to the first stud shall be located 4 in. (102 mm) from face of concrete wall assembly. Gypsum board not attached to side runner.

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

3. **Joint System** — Max separation between side of gypsum board and face of concrete wall assembly is 1 in. (25.4 mm).

---

**The joint system is designed to accommodate a max 20 percent compression from its installed width.** The joint system consists of a packing material and a fill material, as follows:

**A. Packing Material\*** — Foam backer rod firmly packed into gap between the sides of gypsum board and sides of concrete wall as a permanent form. Forming material is to be recessed from each surface of wall to accommodate the required thickness of fill material.

**B. Fill, Void or Cavity Material\*** — Min 1/4 in. (6.3 mm) wet thickness of fill material sprayed or trowelled on both sides of the Gypsum Wall Assembly and overlap the adjacent Concrete Wall Assembly to completely cover packing material and to overlap 1/2 in. (12.7 mm) onto both sides of the Gypsum Wall Assembly and the adjacent Concrete Wall Assembly.

**RECTORSEAL** — [Metacaulk 1000](#), Metacaulk 1100, Biostop500+, Biostop 700, FS1900.

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

Reprinted from the Online Certifications Directory with permission from UL. ©UL LLC