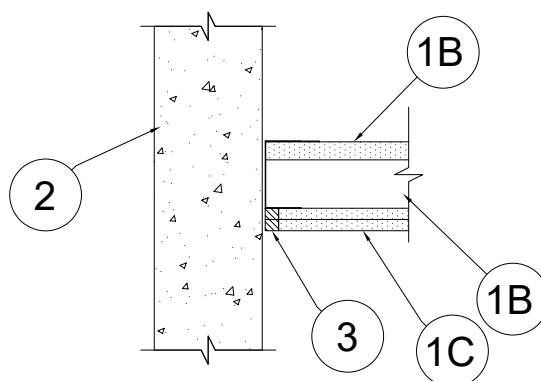


# SYSTEM NO. WW-S-0094

CAN/ULC S115  
Assembly Ratings – 1 and 2 Hr

Nominal Joint Width – ½ in.

L Rating at Ambient - Less Than 1.55 L/s/m  
L Rating at 204°C - Less Than 1.55 L/s/m



1. **Shaft Wall Assembly** — The 2 hr fire rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner described in the individual U400, V400 or W400 Series Wall and Partition Design in the UL Fire Resistance Directory and shall include the following construction features:
  - A. **Steel Runners** — U-shaped, sized to accommodate steel studs (Item 1B), fabricated from 24 ga galv steel. Runners attached to concrete wall assembly with steel fasteners located not greater than 2 in. from ends and not greater than 24 in OC. The runners are provided with a fill, void or cavity material and are described in Item 3.
  - B. **Studs** — "C-T", "I", or "C-H" shaped steel studs to be min 2 1/2 in. (64 mm) wide and formed of min 24 ga galv steel. Stud spacing not to exceed 24 in. (610 mm) OC with first stud located max 3-1/4 in. (83 mm) from concrete wall assembly (Item 2)
  - C. **Gypsum Board\*** — 1/2 in., 5/8 in. or 3/4 in. (13, 16 or 19 mm) thick gypsum panels installed as specified in the individual shaft wall designs in the UL Fire Resistance Directory.
  - D. **Gypsum Board\*** — 1 in. (25 mm) thick gypsum liner panels as specified in the individual shaft wall designs in the UL Fire Resistance Directory.
2. **Wall Assembly** — Min 4-1/2 in. (114 mm) thick steel- 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\*** with a minimum thickness of 6 in. (152 mm).  
  
See **Concrete Blocks** (CAZT) category in the Fire Resistance Directory for names of manufacturers.
3. **Joint System** — **Max width of joint (at time of installation)** is 1/2 in. (13 mm). The joint system consists of the following:

Item	Product	Max Gap	Movement
3A	Fire Rated J-Track (CEMCO)	1/2"	N/A
3A1	HOTROD XL (CEMCO, MARINO/WARE, TRIM-TEX)	1/2"	N/A
3A2	HOTROD Type-X (CEMCO)	1/2"	N/A
3A3	Fire Bead (CEMCO, MARINO/WARE, TRIM-TEX)	1/2"	N/A
3A4	Fire Gasket .5 (CEMCO, MARINO/WARE, TRIM-TEX)	1/4"	N/A

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

The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under UL's Follow-Up Service. Only those products bearing the UL Mark should be considered to be Certified and covered under UL's Follow-Up Service. Always look for the Mark on the product.

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