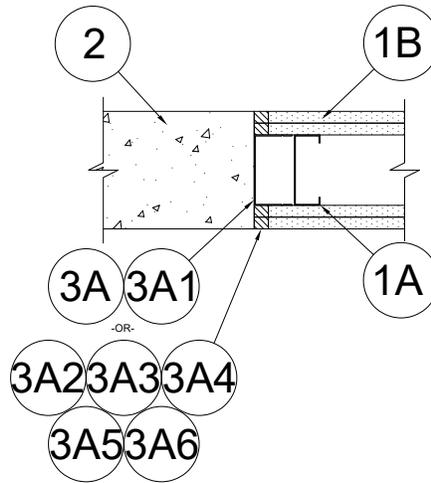


SYSTEM NO. WW-S-0057

ANSI/UL2079
Assembly Ratings – 1 and 2 Hr

Nominal Joint Width - See Chart, Section 3

L Rating at Ambient - Less Than 1 CFM/Lin Ft
L Rating at 400°F - Less Than 1 CFM/Lin Ft



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

- A. **Studs** — Steel studs to be min 3-1/2 in. (89 mm) wide by 1-1/4 in. (32 mm) deep corrosion protected min 25 MSG steel channels. 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).
- A1. **Framing Members — Steel Studs*** — In lieu of Item A - Proprietary channel shaped studs, 3-5/8 in. (92 mm) wide spaced a max of 24 in. (610 mm) OC. For direct attachment of gypsum board only.

CALIFORNIA EXPANDED METAL PRODUCTS CO — ViperStud™

- B. **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 fire rated assemblies, respectively. A max 1/2 in. (13 mm) gap shall be maintained between the edges of the gypsum board and the concrete wall assembly (Item 2).

The hourly rating of the joint system is dependent on the hourly fire rating of the wall assembly in which it is installed.

- 2. **Wall Assembly — Wall Assembly** — Min 4-3/4 in. (121 mm) thick steel- reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) 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.
- 3. **Joint System — Max width of joint (at time of installation)** is 1/2 in. (13 mm). When Item 3A3 is used the joint will accommodate 100% compression/extension for nominal 1/2 in. (12 mm) gaps or compression only for nominal 5/8 in. (16 mm) gaps. When Item 3A4 is used the joint will accommodate 100% compression/ extension for nominal 3/4 in. (19 mm) gaps or compression only for 1-1/2 in. (38 mm) gaps. When item 3A5 is used the joint will accommodate 100% compression/extension for nominal 1/4 in. (6mm) gaps or compression only for 1/2 in. (12mm) gaps. The joint system consists of the following:

Item	Product	Max Gap	Movement
3A	FAS Track DL (CEMCO)	1/2"	Static
3A1	HOTROD Type-X (CEMCO)	1/2"	Static
3A2	HOTROD XL (CEMCO, MARINO/WARE, TRIM-TEX)	1/2"	Static
3A3	Fire Gasket 1 (CEMCO, MARINO/WARE, TRIM-TEX)	1/2"	Static
3A4	Fire Gasket 1.5 (CEMCO, MARINO/WARE, TRIM-TEX)	3/4"	Static
3A4	Fire Gasket 1.5 (CEMCO, MARINO/WARE, TRIM-TEX)	1-1/2"	Static
3A5	Fire Gasket .5 (CEMCO, MARINO/WARE, TRIM-TEX)	1/2"	Static
3A5	Fire Gasket .5 (CEMCO, MARINO/WARE, TRIM-TEX)	1/4"	Static

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

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Nominal Joint Width - See Chart, Section 3

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L Rating at 400°F - Less Than 1 CFM/Lin Ft

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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