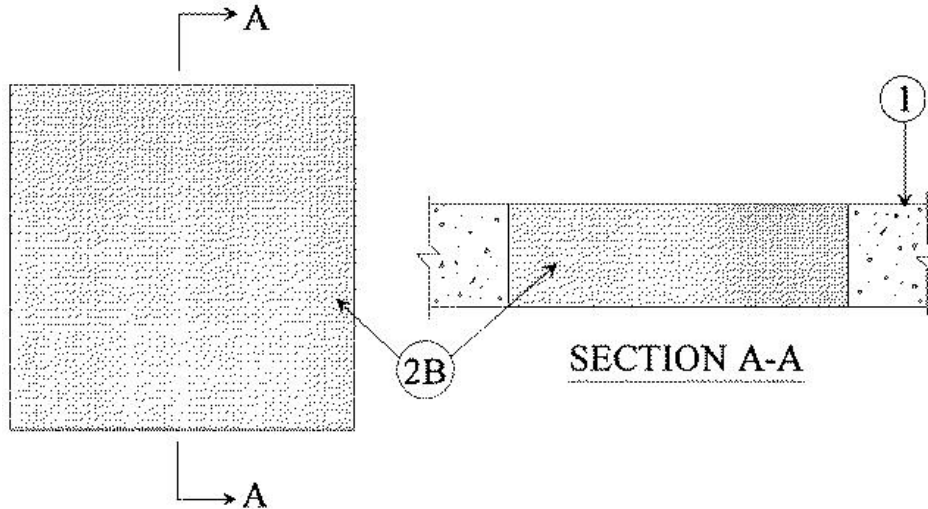


ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings — 2 and 4 Hr (See Item 1)	F Ratings — 2 and 4 Hr (See Item 1)
T Ratings — 3/4 and 4 Hr (See Item 1)	FT Ratings — 3/4 and 4 Hr (See Item 1)
L Rating At Ambient — Less Than 1 CFM/sq ft	FH Ratings — 2 and 4 Hr (See Item 1)
L Rating At 400 F — Less Than 1 CFM/sq ft	FTH Ratings — 3/4 and 4 Hr (See Item 1)
	L Rating At Ambient — Less Than 1 CFM/sq ft
	L Rating At 400 F — Less Than 1 CFM/sq ft



1. **Floor or Wall Assembly** — Min 2-1/2 in. (64 mm) or 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m<sup>3</sup>) concrete. The hourly F and FH ratings are 2 and 4 hr for min 2-1/2 in. (64 mm) and min 4-1/2 in. (114 mm) thick concrete, respectively. The hourly T, FT and FTH ratings are 3/4 and 4 hr for min 2-1/2 in. (64 mm) and min 4-1/2 in. (114 mm) thick concrete, respectively. Wall may also be constructed of any UL Classified **Concrete Blocks\***. Max area of opening is 1024 sq in. (6606 cm<sup>2</sup>) with max dimension of 32 in. (813 mm).

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

2. **Firestop System** — The firestop system shall consist of the following:

A. **Forms** — (Not Shown) — Used as a form to prevent leakage of fill material during installation. Forms to be a rigid sheet material, positioned as required to accommodate the required thickness of fill material. Forms to be removed after fill material has cured.

B. **Fill, Void or Cavity Material\* — Mortar** — Min 2-1/2 in. (64 mm) or 4-1/2 in. (114 mm) thickness of fill material for 2 and 4 hr rated assemblies, respectively, applied within the annulus. Mortar is mixed at a rate of 2-1/2 parts dry mix to one part water by volume in accordance with the fill material manufacturer's installation instructions.

**RECTORSEAL** — [Metacaulk Fire Rated Mortar](#)

\*,+ 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