



cfiFOAM, Inc. P.O. Box 10393 ♦ Knoxville, TN 37939
800.656.3626 ♦ Fax: 865-588-6607 ♦ www.cfifoam.com

CORE FOAM MASONRY FOAM INSULATION® TYPICALLY MEETS OR EXCEEDS THE STANDARDS OF OTHER FOAM-IN-PLACE INSULATION PRODUCTS.
CORE FOAM MASONRY FOAM INSULATION IS VIEWED AS AN APPROVED EQUAL WHERE OTHER PRODUCTS ARE SPECIFIED.

*Comparison of
Core Foam Masonry Foam Insulation
and Core-Fill 500 Foam Insulation*



Fire Rating	Class I	Class I
Flame Spread	25 or Less	25 or Less
Smoke Developed Index	450 or Less	450 or Less
Low Formaldehyde Content	Yes	No
R-Value of 8" CMU Wall @ 100 lb/ft ³	8.0 to 10.0	9.1
R-Value of 12" CMU Wall @ 100 lb/ft ³	11.0 to 13.0	12.5
R-Value of Foam	4.9/inch @ 25°F	4.9/inch @ 35°F
Acoustic Properties	STC 53-56 in 8" CMU	STC 53 in 8" CMU
Shrinkage in CMU Wall	<0.5%	<1.0%
Fire Resistance Rating Impact	Negligible	Negligible

THE TRUTH BEHIND THE FIRE MYTHS

- **Fire Myth #1: Core-Fill 500™ increases fire-ratings of CMU wall assemblies. It cannot.** Foam plastic with a service temperature of 190°F that disintegrates at less than 400°F does not perform in a CMU test panel exposed to heat that increases from 0°F to 2000°F in 4 hours.



Both Core-Fill 500 and Core Foam Masonry Foam Insulation
Turn Into Charred Masses in 54 Minutes at 400°F

- **Fire Myth #2: ASTM E119 test reports prove that Core-Fill 500™ increases fire-ratings of CMU wall assemblies. They do not.** A test of a distinct CMU wall assembly reflects only the performance of the distinct CMU wall assembly tested; *not any similar CMU wall assembly.*
- **Fire Myth #3: SwRI Report No. 01-6740-711 proves Core-Fill 500™ increases fire-ratings. It does not.** The report was recalled due to an error, and replaced by SwRI at its' own expense. *SwRI should be notified immediately if the report is being used for code approval.*
- **Fire Myth #4: SwRI Report No. 01-7522-607 proves Core-Fill 500™ increases fire-ratings. It does not.** The test was run with a proprietary formulation of Core-Fill 500™ that contained a *special ingredient* that greatly improved the test panel's ability to resist the transmission of heat by increasing the foam's moisture content. The foam used was not regular Core-Fill 500™ which is passed off as the same foam used to achieve a 4-hour fire rating.
- **Fire Myth #5: Core-Fill 500 is noncombustible. It is not.** In 1977 the FTC ordered two amino-plast foam manufacturers to stop claiming that their foam was noncombustible based upon ASTM E136-65 test results. This claim for Core-Fill 500™ is based upon testing per ASTM E136-58 performed in 1990. In addition to being false, this claim for Core-Fill 500™ conflicts with both orders issued by the FTC in 1977.

The Trenton, NJ ASTM E119 Debacle: Trenton, NJ building officials rejected the fire myths. An 8" CMU wall approved per UL Design No. U904 (3-Hrs) had been built with unlisted 8" CMU. The mason had Core-Fill 500™ injected to remedy the deficiency. Building officials demanded testing per ASTM E119 for acceptance. It failed at 1-hour, 58-minutes, 45-seconds. Testimony in US District Court of Eastern Pennsylvania Case No. 01-CV-4834 confirmed that the CMU were 2-hour rated and that the injection of Core-Fill 500™ adds nothing to the fire ratings of CMU walls.

FOR MORE INFORMATION CONTACT

