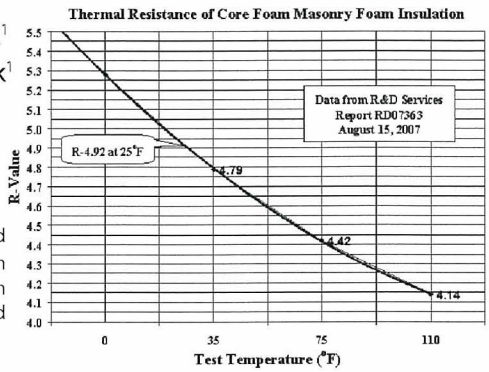
Applegate® C Foam Insulation Information Sheet

1000 Highview Drive
Webberville, MI 48892
800-627-7536
www.applegateinsulation.com

R-Value per inch	4.92/inch	@ 25°F mean temperature[1]
R-Value of 8" CMU Wall	9.0 to 10.0	Injected into 100 lbs/ft³ block[1]
R-Value of 12" CMU Wall	12.0 to 13.0	Injected into 100 lbs./ft³ block[1]
Flame Spread	25	per ASTM E-84 @ 3.5" thick
Smoke Density	200	per ASTM E-84 @ 3.5" thick
Fire Classification	Class A	per NFPA Life Safety Code

[1]Thermal performance is portrayed to reflect typical installed conditions based upon NAVLAP accredited laboratory testing per ASTM C518 as well as industry accepted engineering calculations. Applegate® C Foam Insulation typically is installed at densities ranging from 0.55 to 0.90 lbs./ft³; the above data is based upon ASTM C518 testing at 0.72 lbs./ft³ by R & D Services, Inc., Cookeville, TN. Thermal performance claims are based upon average density and conditions.



Kiln-Dried Powder Resin vs. Pre-Mixed Liquid Resin: Our dry powder resin has nearly all free formaldehyde removed before shipment to our dealers. Adding water to freshly mix resin for each project facilitates superior foam production having extremely low free formaldehyde content. Tests (sodium sulfate method) show Applegate® C Foam Insulation resin has under 0.5% free formaldehyde vs. similar tests show a competitor's dry powder resin has over 1.3%. Applegate® C Foam Insulation kiln-dried powder resin has a 1-year shelf life. Pre-mixed resins need added preservative to extend useful shelf life beyond a few days.

Brown Staining: Applegate® C Foam Insulation is acutely aware of the risk of brown staining of concrete masonry. Brown staining is linked to the presence of a chemical constituent called resorcinol that is used in adhesives and as a foam stabilizer, and also as a formaldehyde absorbent. Applegate® C Foam Insulation has a low formaldehyde content eliminating any need for adding resorcinol to our foaming agent; thus, the risk of brown staining is minimal to none.

Fire Separation: As a Class A rated insulation, Applegate® C Foam Insulation may be installed in wall assemblies without detracting from the wall's fire separation characteristics. Amino-plast foams have been shown to contribute no more than 30 minutes of added performance. Claims of 4-hour performance are based upon nearly 60 percent of core cells grouted solid using Type S mortar.

Sound Attenuation: Installing insulation within a wall cavity will improve the STC rating by about 4 to 6 dB according to accepted industry sources.[2] Applying the minimum predicted improvement shows:

CMU Thickness	No Insulation in CMU Wall	Applegate® C Foam Insulation in CMU Wall
8 inches (NCMA)	49 to 52 dB3	53 to 56 dB
8 inches (OCBA)	46 to 50 dB3	50 to 54 dB

[2]acoustics.com

[3]NCMA = National Concrete Masonry Association • OCBA = Ontario Concrete Block Association

Wythe Cavity Fill: Millions of double wythe masonry structures are successfully insulated by completely filling the wythe cavity with amino-plast foamed-in-place insulation. We suggest adding a mineral fiber weep hole protection strip to ensure drainage at the cavity's base.

Applegate® C Foam Insulation Advantages –

- Superior high speed installation technology
- Low to no formaldehyde – <1% in uncured; below detectable limits in cured foam
- Exceptional thermal performance
- Class A (Class 1) acceptable to install in Fire Rated assemblies
- Costs less to install than rigid foam insulation board
- Installed by factory trained, experienced personnel
- Low shrinkage – < 0.5% in closed CMU cells; < 2.0% in open cavities
- Improves STC ratings in masonry walls
- Does not support mold growth

c A Foam
applegateinsulation
Meets or Exceeds All Building Code Requirements

He is the one who will build a house for me, and I will establish his throne forever (1Chronicles 17:12).