

Product Information

Applegate C Foam LLC. 1000 Highview Dr. Webberville, MI 48892
800.627.7536 Fax: 517-521-3597 www.applegateinsulation.com

C FOAM MASONRY FOAM INSULATION RESIDENTIAL FOUNDATIONS & BASEMENT WALLS

HELPS MEET NEW CODE REQUIREMENTS
FOR CONDITIONED CRAWL SPACES

R-VALUES FOR CONCRETE BLOCK WALLS¹

	R-VALUES WITH INSULATION	
	NO REINFORCING	VERTICAL REINFORCING 48" OC
8-INCH BLOCK WITH BRICK VENEER	11-12	8-9
8-INCH BLOCK WITH NO BRICK	9-10	7-8
12-INCH BLOCK	12-13	9-10

Typical Physical Properties

Thermal Conductivity per inch (K-value) ²	0.23
Thermal Resistance per inch (R-value) ²	4.4 @ 75°F
ASTM E84-01 Results: ²	
Flame Spread Index ³	25 or less
Smoke Density	Less than 450
Sample Thickness	3 1/2"
	Max thickness for test apparatus
Flammability Classification	Class A or Class 1
Formaldehyde	None Detected
CFCs	None

R-values vary with block density and reinforcing.

These whole-wall R-values are intended as guidelines and do not serve as guarantees.

For walls with vertical reinforcing, please consult the manufacturer.



¹NCMA-TEK101 "U" - Values for Reinforced Concrete Masonry Walls," 95-100 pcf.

²Based on independent testing of C Foam Masonry Foam Insulation.

³This numerical flame spread rating is not intended to reflect hazards presented by this or any other material under actual fire conditions.

Applegate products, including C Foam Masonry Foam Insulation, are not associated with and are a different product from the Core Fill-500™ products manufactured by Tailored Chemical Products, Inc.

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- Foam Insulation for Enclosed Cavity Applications
- Suitable for New Construction & Retrofit
- Pre-Expanded
- Safe, Inert & Environmentally Green
- Excellent Thermal & Acoustic Insulative Properties
- Seals Against Air Infiltration

Acoustical Properties

	Hollow	With Insulation
For 8-Inch CMU Walls: ^{1,2}	49-50	53-56
For 12-Inch CMU Walls: ^{1,2}	52-53	56-59

Thermal Resistance Concrete Masonry Unit (CMU) Walls³

8-Inch Block	CMU Density (pcf)	60	80	100	120
	R-Value With Insulation	14.2	11.3	8.8	6.6
12-Inch Block	CMU Density (pcf)	60	80	100	120
	R-Value With Insulation	20.0	16.1	12.3	9.1

Typical Physical Properties

Desity (31/ ft ³) ⁴	0.6 -0.08
Thermal Conductivity per inch (K-value) ⁴	0.22
Thermal Resistance per inch (R-value) ⁴	4.92 @ 25°F
ASTM E84-01 Results: ⁴	
Flame Spread Index ⁶	25 or less
Smoke Density	Less than 450
Sample Thickness	3 1/2"
Flammability Classification	Max thickness for test apparatus Class A or Class 1
Shrinkage (Concrete Masonry Unit) ⁴	Less than 0.5%
Shrinkage (Open Stud Wall Cavity) ⁴	2%
Corrosivity ⁵	Non-Corrosive to mineral-based construction materials
Asbestos Content	None
Formaldehyde Off-Gassing ⁴	Below detctable levels over 24-hour period at 75°F

¹Ontario Concrete Block Association, "Sound Transmission Ratings."

²NCMA Trk 13-1A, "STC Ratings for Concrete Masonry Walls."

³NCMA-TEK101™"U" -Values for Reinforced Concrete Masonry Walls."

⁴Based on independent testing of Applegate C Foam Insulation.

⁵Polymeric Foams: 1991 Edition. Edited by Klempner & Frisch.

⁶This numerical flame spread rating is not intended to reflect hazards presented by this or any other material under actual fire conditions.

