

# ThermShield Cellulose Insulation

## FACT SHEET

This is Loose Fill Cellulose Insulation

R-Value	Minimum Thickness		Maximum Coverage		Net Coverage		Minimum
R-Value @75°F	Initial Installed Thickness	Minimum Settled Thickness	Bags per 1000 SQRF		SQRF/ Bag	SQRF /BAG	Weight Per Sqr. Ft.
			2 by 6 @ 16 in. OC	Unframed	2 by 6 @ 16 in OC		
R-60	18.9"	16.0"	73.4 bags	75.7 bags	13.6 sq. ft.	13.2 sq. ft.	2.01 lb.
R-49	15.5"	13.1"	59.5 bags	61.8 bags	16.8 sq. ft.	16.2 sq. ft.	1.64 lb.
R-40	12.8"	10.7"	48.2 bags	50.4 bags	20.8 sq. ft.	19.8 sq. ft.	1.34 lb.
R-38	12.2"	10.2"	45.7 bags	47.9 bags	21.9 sq. ft.	20.9 sq. ft.	1.27 lb.
R-30	9.7"	8.0"	35.6 bags	37.8 bags	28.1 sq. ft.	26.4 sq. ft.	1.00 lb.
R-22	7.3"	5.9"	25.5 bags	27.7 bags	39.2 sq. ft.	36.0 sq. ft.	0.74 lb.
R-19	6.4"	5.1"	21.7 bags	24.0 bags	46.0 sq. ft.	41.7 sq. ft.	0.64 lb.
R-13	4.6"	3.5"	14.9 bags	16.4 bags	67.2 sq. ft.	61.0 sq. ft.	0.43 lb.

Initial installed thickness determined according to ASTM C1374 using a Krendl 500 machine.

### Sidewalls

R-13	Frame in by 2X4X16	28.5 bags	35.1 sq. ft.	0.756 lb.
R-21	Frame in by 2X6X16	44.8 bags	22.3 sq. ft.	1.188 lb.
R-21	Frame in by 2X6X24	46.4 bags	21.6 sq. ft.	1.229 lb.

Read this before you buy:

### What you should know about R-Values:

The chart shows the R-Value of this insulation. R means resistance to heat flow. The higher the R-Value, the greater the insulating power. Compare insulation values before you buy.

There are other factors to consider. The amount of insulation you need depends mainly on the climate you live in. Also, your fuel savings from insulation will depend on the climate, the type and size of your house, the amount of insulation already in your house, and your fuel use patterns and family size. If you buy too much insulation, it will cost you more than what you'll save on fuel.

To get the marked R-value, it is essential that this insulation be installed properly. Read and follow installation instructions carefully if you plan to install it yourself. Use the chart on this fact sheet to obtain the right thickness for the marked R-value. Moisture build-up in this product will reduce the marked R-Value. You may need a vapor barrier to prevent moisture build-up.



erie energy products, inc  
 1400 irwin drive \* erie, pa 16505  
 toll free (800) 233-1810 \* fax (814) 454-2820  
[www.erieenergyproducts.com](http://www.erieenergyproducts.com)

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## SPECIFICATIONS

THERMSHIELD IS CLASSIFIED BY R & D SERVICES, INC. AND TESTED IN ACCORDANCE WITH ASTM SPEC. C739 TO MEET THESE VALUES.

### FLAMMABILITY CHARACTERISTICS

CRITICAL RADIANT FLUX	GREATER THAN OR EQUAL TO 0.12W/CM <sup>2</sup>
SMOLDERING COMBUSTION	EQUAL TO OR LESS THAN 15.0%

### ENVIRONMENTAL CHARACTERISTICS

CORROSIVENESS	ACCEPTABLE
FUNGI RESISTANCE	ACCEPTABLE

### PHYSICAL CHARACTERISTICS

DENSITY (SETTLED-BCS)	1.50 lb/ft <sup>3</sup>
THERMAL RESISTIVITY (at 4 in.)	3.74 R/in.
MOISTURE VAPOR SORPTION	ACCEPTABLE
ODOR EMISSION	ACCEPTABLE

### FEATURES

THIS PRODUCT MEETS THE AMENDED CPSC STANDARD FOR FLAME RESISTANCE AND CORROSIVENESS OF CELLULOSE INSULATION. CPSC STANDARD HH-I-505E; 16CFR SECTION 1209 MEETS ASTM C739 APPROVED FOR USE BY: PA, OH, NY & NYC WEATHERIZATION AGENCIES NON-TOXIC AND NON-IRRITATING, VERMIN AND INSECT RESISTANT

### VENTILATION

#### ATTIC

ROOF VENTS NO VAPOR BARRIER 1 SQ. FT. VENT AREA FOR EACH 150 SQ. FT. ATTIC

ROOF VENTS WITH VAPOR BARRIER 1 SQ. FT. VENT AREA FOR EACH 300 SQ. FT. ATTIC

50% ROOF & EAVE VENTS NO VAPOR BARRIER 1 SQ. FT. VENT AREA FOR EACH 300 SQ. FT. ATTIC

#### UNHEATED CRAWL SPACE

A GROUND SURFACE VAPOR BARRIER IS RECOMMENDED 1 SQ. FT. VENT AREA FOR EACH 150 SQ. FT. CRAWL SPACE

#### WALL SPACE

A VAPOR BARRIER IS RECOMMENDED FOR WALLS AND CEILINGS IN BATHROOMS, KITCHENS AND LAUNDRIES. PLASTIC FILM OR A CONTIGUOUS COAT OF A VAPOR BARRIER FORMING PAINT CAN BE USED

### SOUND CONTROL

<u>WALL CONSTRUCTION</u>	<u>NO INSULATION</u>	<u>INSULATED w/ THERMSHIELD</u>
2X4 STUDDING, 5/8" DRYWALL	* STC 32	STC 44 (3.6")
2X4 STAGGERED STUDS w/ 6" PLATES, 5/8" DRYWALL	STC 42	STC 52 (5.6")
2X4 STAGGERED STUDS w/ 4" PLATES SEPARATED 1", 5/8" DRYWALL	STC 50	STC 58 (8.2")

\* NORMAL SPEECH CAN BE HEARD EASILY THROUGH STC 32, AT STC 44 IT WOULD BE FAINT, AT STC 50 IT COULD NOT BE HEARD.