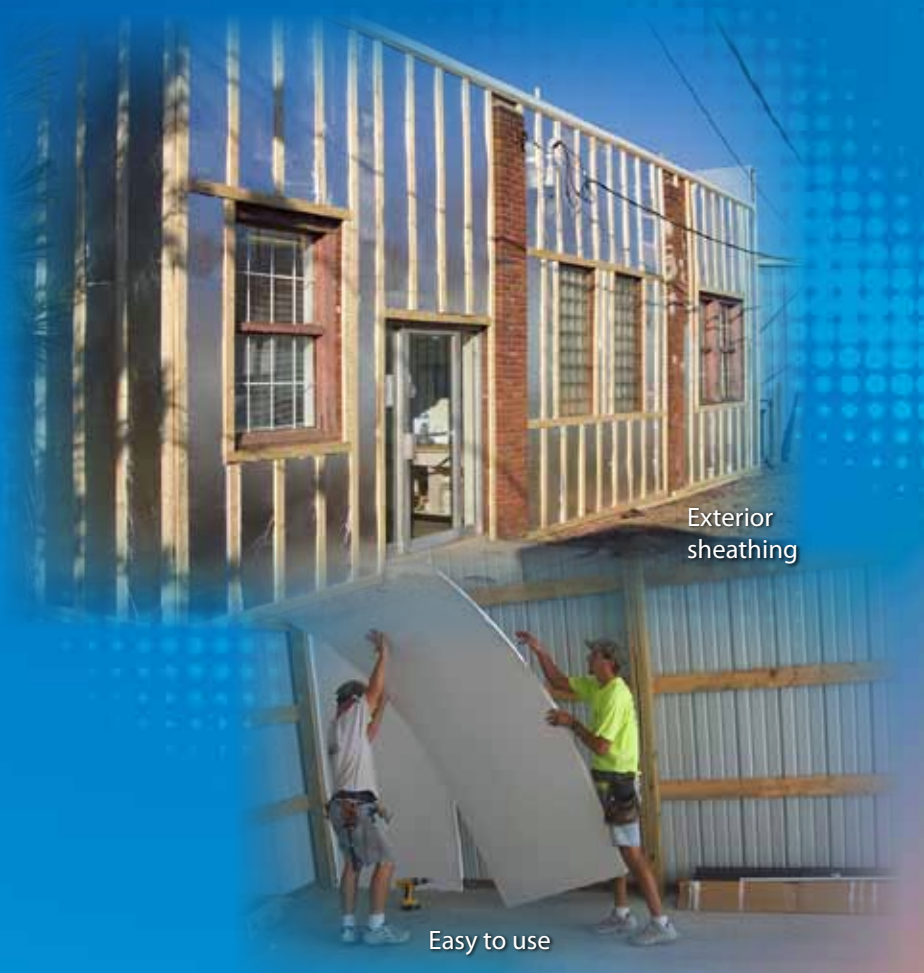


THERMOBLOK

REFLECTIVE INSULATION



Exterior sheathing

Easy to use

APPLICATION

- Post Frame
- Metal Frame
- Metal Roofs
- Agricultural
- Residential
- Retrofit
- Light-gauge steel
- Workshops
- Exterior Sheathing
- Concrete Insulation

FACING OPTIONS

- White Double Cross Woven
- Reflective Polymeric Aluminum
- Foil

PRODUCT SIZES

Sheets

- 4' width
- Thickness 3/8" to 4"
- Lengths 8' to 16'
- Custom lengths to 24' +

Rolls

- ThermoBlok3/8" x 4' x 64'
- ThermoBlokXT.....3/4" x 4' x 64'
- ThermoBlokX5 1.25" x 4' x 64'

PRODUCT DESCRIPTION

NOFP ThermoBlok Reflective Insulation is the ultimate in energy saving performance, virtually stopping all forms of heat transfer. Whether its thermal radiation, convection, or conduction, Thermoblok has the insulative properties to increase energy efficiency, be effective in many different applications, and simplify installation for all post-frame, light-gauge steel, commercial, and residential insulation applications.

The recyclable core of the product is made from environmentally approved expanded polystyrene specifically formulated for use by NOFP that provides excellent insulation characteristics in a moisture proof design in a variety of thicknesses.

In addition, the tough double cross woven white or the highly reflective polymeric aluminum facing combinations are bonded in a unique process that provides a long-term quality finish to every Thermoblok product.

FEATURES & BENEFITS

- Combats all three forms of heat transfer
- Consistent, long-term proven performance
- Vapor Barrier, Radiant Barrier, and thermal barrier all-in-one product
- Multiple facing combinations
- Available in sheets or rolls
- Bird and insect resistant
- Increases system thermal performance
- Use in retro-fit or new construction
- Reduces thermal bridging when used as exterior sheathing

PRODUCT USE

Thermoblok can be used for new construction as well as retrofit in a variety of applications, such as post frame, residential, horse, dairy, storage or livestock buildings as well as for finished walls, building insulation, under concrete, condensation control, and as a thermal break and vapor barrier.



PRODUCT SPECIFICATIONS

Core Properties	UNITS	ASTM Test	Value
Density Range	pcf	C 303 or D 1622	0.90-1.10
Design Thermal Resistance	at 25°	C 177 or C 518	4.35
Values per 1.0 inch	at 75°	C 177 or C 518	3.85
Strength Properties			
Compressive Resistance	psi	D 1621	10
Flexural Strength	psi	C 203	25
Tensile	psi	C 1623	16
Moisture Resistance			
Water Vapor Permeance	perm/in	E 96	5
Water Absorption	volume	C 272	4
Dimensional Stability			
Change in dimensions	max %	D 696	2
Maximum Service Temp			167F / 180F
Long Term / Intermittent			167F / 180F
Flame Spread / Smoke Development			
Up to 6" thickness		E 84*	25 / 450

* Please consult local code for any thermal barrier requirements for EPS foam sheet material. The fire rating in no way indicates an approval to use ThermoBlok alone or in conjunction with other materials to obtain a rated burn time for a wall or partition.

Face

- White Double Cross Woven
- Reflective Polymeric Aluminum up to 94% reflective
- Reflective Aluminum Foil up to 97% reflective

System Thermal R-Values

1"Thermoblok Foil / Foil in 2x4 wall cavity, Horizontal 1	8.5
1"Thermoblok Foil / Foil in 2x6 wall cavity, Horizontal 1	10.2
.....	
TBD	12.3
TBD	12.3

1System R-values were derived from 1/2" OSB/3/4" airspace /1" ThermoBlok/Wall Cavity/1/2" Drywall

System R-Values were tested as part of a 1" airspace assembly behind vinyl siding and as part of a 2x6 full wall cavity with OSB and drywall. The R-Value of reflective foil insulation is application specific. Please contact your NOFP representative for a complete table of System R-Values based on your installation method.

Read This Before You Buy: 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 R-values before you buy. There are other factors to consider. The amount of insulation you need depends mainly on the climate where you live. Also, your fuel savings from insulation will depend on climate, the type and size of your structure, the amount of insulation already in your structure, and your fuel use patterns and occupancy. If you buy too much insulation, it will cost you more than you'll save on fuel. System R-Values were tested as part of a 1" airspace assembly behind vinyl siding and as part of a 2x6 full wall cavity with OSB and drywall. The R-Value of reflective foil insulation is application specific. Please contact your NOFP representative for a complete table of System R-Values based on your installation method. To get the marked R-value, it is essential that this insulation be installed properly.

¹ Foil facings should be covered by a thermal barrier, please check local building requirements.



Taped Edge



Overlap Edge



Finished Appearance



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