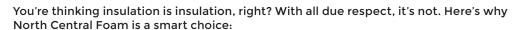




WHY NORTH CENTRAL FOAM?



- MORE ACCURATE DENSITY If you pay for 1-lb foam, don't settle for .8-lb foam
- STRONGER, MORE DURABLE Because our foam has more density, it's tougher
- CUSTOMIZED ORDERS We'll work with your specs
- STATE-OF-THE-ART FACILITY More automation means lower prices and more supply
- JOBSITE DELIVERY On larger jobs, we'll bring the product to you
- EPS INDUSTRY ALLIANCE MEMBER We're committed to sustainability through innovation

ABOUT OUR PRODUCT

The better the insulation in belowgrade foundation walls and floor slabs, the better the energy savings. R-MOR Below-Grade & Perimeter EPS meets or exceeds industry standards for energy efficiency and durability. Available with foil laminate for a radiant barrier, woven laminate for increased durability, or clear laminate for water resistance.

- STABLE R-VALUE As long as it's in place, it keeps its thermal properties
- LOW MOISTURE RETENTION Low moisture retention keeps walls dry
- ENHANCED STRENGTH Strong enough to handle load pressure
- ENVIRONMENTALLY SMART No harmful blowing agents; 100% recyclable
- LOWER COST Our automated facility means lower prices
- RESISTS MOLD & INSECTS Non-toxic additive to deter mold growth and insects
- CODE APPROVED Recognized by the International Code Council Evaluation Service (ICC-ES)



R-MOR

BELOW GRADE AND PERIMETER EPS



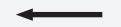
Exceeding Expectations

TYPICAL TESTED PHYSICAL PROPERTIES OF R-MOR EPS BELOW GRADE INSULATION **PROPERTY** TYPE I TYPE VII TYPE II TYPE IX TYPE XIV TYPE XV 1.25 2 3 **Nominal Density (pcf)** 1 1.5 2.5 C-Value (Conductance) BTU/(hr ft2 °F) (per inch) 0.220 @25°F 0.230 0.210 0.200 0.198 0.196 @40°F 0.240 0.235 0.220 0.210 0.206 0.198 @75°F 0.260 0.255 0.240 0.230 0.222 0.217 R-Value (Thermal Resistance) (hr ft2 °F)/BTU (per inch) @25°F 4.35 4.55 4.76 5.00 5.10 5.05 @40°F 4.25 4.76 5.50 4.2 4.55 4.85 @75°F 3.9 3.92 4.17 4.35 4.50 4.60 **Compressive Strength** 10-14 13-18 15-21 25-33 40 60 (psi, 10% deformation) Flexural Strength (min. psi) 25 30 35 50 60 75 **Dimensional Stability** 2% 2% 2% 2% 2.0 2.0 (maximum %) Water Vapor Permeance (max. 5 3.5 2.0 2.5 3.5 2.5 perm., 1 inch) 4.0 3.0 3.0 2.0 2.0 Water Absorption (max. % vol.) 2.0 Capillarity none none none none none none Flame Spread <20 <20 <20 <20 <20 <20 150-300 150-300 150-300 150-300 Smoke Developed 150-300 150-300





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ABOUT OUR PRODUCT

R-MOR Interior Wall EPS is designed for use in multiple interior wall assemblies. Because of its higher density, it also helps reduce noise for greater comfort and privacy. Demand the best. Ask for R-MOR from North Central Foam. Available with foil laminate for a radiant barrier, woven laminate for increased durability, or clear laminate for water resistance.

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TYPICAL PHYSICAL PROPERTIES OF R-MOR INTERIOR WALL EPS							
PROPERTY	TYPE I	TYPE II					
Nominal Density (pcf)	1.0	1.5					
C-Value (Conductance) BTU/(hr ft2 °F) (per inch)							
@25°F	.23	0.210					
@40°F	.24	0.220					
@75°F	.26	0.240					
R-Value (Thermal Resistance) (hr ft2 °F)/BTU (per inch)							
@25°F	4.35	4.76					
@40°F	4.17	4.55					
@75°F	3.85	4.17					
Compressive Strength (psi, 10% deformation)	13	15-21					
Flexural Strength (psi)	33	35					
Dimensional Stability (maximum %)	<2%	2%					
Water Vapor Transmission (perms)	<1.0	3.5					
Absorption (% vol.)	<1.0	3.0					
Capillarity	none	none					
Flame Spread	<20	<20					
Smoke Developed	150-300	150-300					

^{*}Properties are based on data provided by resin manufacturers, independent test agencies.







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ABOUT OUR PRODUCT

R-MOR Fanfold & Rolled EPS insulation provides a radiant barrier on the exterior of any commercial, agricultural, and residential concrete project. The construction of the lightweight EPS core combined with foil facers are perfect for controlling heat transfer. Available in thicknesses from 3/8-inch to 7/8-inch in rolls up to 200-feet.

- STABLE R-VALUE As long as it's in place, it keeps its thermal properties
- LOW MOISTURE RETENTION Low moisture retention keeps walls dry
- RADIANT BARRIER Reduces heat transfer for greater efficiency
- ENVIRONMENTALLY SMART No harmful blowing agents; 100% recyclable
- LOWER COST Our automated facility means lower prices
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Typical Physical Properties of R-MOR Fanfold				
PROPERTY	ТҮРЕ І			
Nominal Density (pcf)	1.0			
C-Value (Conductance) BTU/(hr ft2 °F) (per inch)				
@25°F	.23			
@40°F	.24			
@ 7 5°F	.26			
Compressive Strength (psi, 10% deformation)	13			
Strength (psi)	33			
Dimensional Stability (maximum %)	<2%			
Water Vapor Transmission (perms)	<1.0			
Absorption (% vol.)	<1.0			
Capillarity	none			
Flame Spread	<20			
Smoke Developed	150-300			

Effective R-Values						
R-MOR THICKNESS	DESIGN TYPE	EFFECTIVE R-VALUE				
3/8"	25°F	4.50				
	40°F	4.40				
	75°F	4.30				
1/2"	25°F	5.00				
	40°F	4.90				
	7 5°F	4.80				
3/4"	25°F	6.10				
	40°F	5.90				
	75°F	5.70				





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ABOUT OUR PRODUCT

R-MOR Geofoam EPS is a popular and cost effective construction insulation material. It's perfect for structural fill material, elevated slab applications and more because it's lightweight and is able to stand up to harsh conditions. Ideal for multiple uses such as bridge abutments, retaining walls, hills, stadium seats, and roads.

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BENEFITS







ASTM C-578 Physical Property Requirements of EPS Geofoam									
PROPERTY		TYPE XI	TYPE 1	TYPE VII	TYPE II	түре іх			
NORMAL DENSITY Ib/ft³ (kg/m³)		0.75 (12)	1.00 (16)	1.25 (20)	1.5 (24)	2.00 (32)			
		lb/ft³ (kg/m³)	0.70 (12)	0.90 (15)	1.15 (18)	1.35 (22)	1.80 (29)		
DESIGN THERMAL RESISTANCE PER 1.0 IN. THICKNESS	75° F	°F•ft²•h/Btu (°K•m²/W)	3.22 (0.57)	3.85 (0.68)	3.92 (0.69)	4.17 (0.73)	4.35 (0.77)		
	40° F	°F•ft²•h/Btu (°K•m²/W)	3.43 (0.60)	4.17 (0.73)	4.25 (0.75)	4.55 (0.80)	4.76 (0.84)		
THERMAL RESISTANCE ¹ , MIN PER 1.0 IN. THICKNESS	75° F	°F•ft²•h/Btu (°K•m²/W)	3.10 (0.55)	3.60 (0.63)	3.80 (0.67)	4.00 (0.70)	4.20 (0.74)		
	40° F	°F•ft²•h/Btu (°K•m²/W)	3.30 (0.58)	4.00 (0.70)	4.20 (0.74)	4.40 (0.77)	4.60 (0.81)		
COMPRESSIVE STRENGTH ¹ @10% DEF., MIN. psi (kPa)		5.0 (35)	10.0 (69)	13.0 (90)	15.0 (104)	25.0 (173)			
FLEXURAL STRENGTH ¹ psi (kPa)		10.0 (69)	25.0 (173)	30.0 (208)	40.0 (276)	50.0 (345)			
WATER VAPOR PERMEANCE OF 1.0 IN. THICKNESS, MAX., PERM		5.0	5.0	3.5	3.5	2.0			
WATER ABSORPTION¹ BY TOTAL IMMERSION, MAX., VOLUME %		4.0	4.0	3.0	3.0	2.0			
OXYGEN INDEX¹ MIN., VOLUME %		24.0	24.0	24.0	24.0	24.0			
FLAME SPREAD ²		20	20	20	20	20			
SMOKE DEVELOPED ²		150-300	150-300	150-300	150-300	150-300			

 $^{^{1}}$ See ASTM C-578 Standard Specification for complete information