



R-MOR

BELOW GRADE AND PERIMETER EPS



WHY NORTH CENTRAL FOAM?

You're thinking insulation is insulation, right? With all due respect, it's not. Here's why North Central Foam is a smart choice:

- **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 below-grade 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)

BENEFITS

For additional product and installation information, visit us at Northcf.com



Exceeding Expectations

R-MOR

BELOW GRADE AND PERIMETER EPS



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



R-MOR

INTERIOR WALL EPS



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- **CUSTOMIZED ORDERS** - We'll work with your specs
- **STATE-OF-THE-ART FACILITY** - More automation means lower prices and more supply
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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.

- **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)

BENEFITS

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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.



R-MOR

FANFOLD & ROLLED EPS



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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
- **RESISTS MOLD & INSECTS** - Non-toxic additive to deter mold growth and insects
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Exceeding Expectations

R-MOR

FANFOLD & ROLLED EPS



Typical Physical Properties of R-MOR Fanfold	
PROPERTY	TYPE I
Nominal Density (pcf)	1.0
C-Value (Conductance) BTU/(hr ft ² °F) (per inch)	
@25°F	.23
@40°F	.24
@75°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
	75°F	4.80
3/4"	25°F	6.10
	40°F	5.90
	75°F	5.70



R-MOR

GEOFOAM EPS



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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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ASTM C-578 Physical Property Requirements of EPS Geofoam

PROPERTY		TYPE XI	TYPE I	TYPE VII	TYPE II	TYPE IX	
NORMAL DENSITY	lb/ft ³ (kg/m ³)	0.75 (12)	1.00 (16)	1.25 (20)	1.5 (24)	2.00 (32)	
DENSITY ¹ , MIN.	lb/ft ³ (kg/m ³)	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·ft ² ·h/Btu (°K·m ² /W)	3.22 (0.57)	3.85 (0.68)	3.92 (0.69)	4.17 (0.73)	4.35 (0.77)
	40° F	°F·ft ² ·h/Btu (°K·m ² /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·ft ² ·h/Btu (°K·m ² /W)	3.10 (0.55)	3.60 (0.63)	3.80 (0.67)	4.00 (0.70)	4.20 (0.74)
	40° F	°F·ft ² ·h/Btu (°K·m ² /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 MIN.	psi (kPa)	10.0 (69)	25.0 (173)	30.0 (208)	40.0 (276)	50.0 (345)	
WATER VAPOR PERMEANCE ¹ OF 1.0 IN. THICKNESS, MAX., PERM		5.0	5.0	3.5	3.5	2.0	
WATER ABSORPTION ¹ BY TOTAL IMMERSION, MAX., VOLUME %		4.0	4.0	3.0	3.0	2.0	
OXYGEN INDEX ¹ 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	

¹See ASTM C-578 Standard Specification for complete information