



Exceeding Expectations

R-FOAM

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-FOAM 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



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TYPICAL TESTED PHYSICAL PROPERTIES OF R-FOAM 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