



DuraSpec M150^{HD}

Metal Roof Insulation



DuraSpec M150HD Type II **Metal Roof Under Insulation** is a closed cell EPS that meets or exceeds ASTM C578. With high retained R-value, this product provides great compressive strength (PSI), increase thermal efficiency and reduces energy costs.

DuraSpec Expanded Polystyrene (EPS) Roofing Insulation is compatible with most types of roofing and metal roofing systems. Check roofing manufacturer for further information.

- **Retains R-value**
- **Low water absorption**
- **Cost effective**
- **Easy to handle, install and cut**
- **Environmentally friendly containing no CFCs or HCFCs**



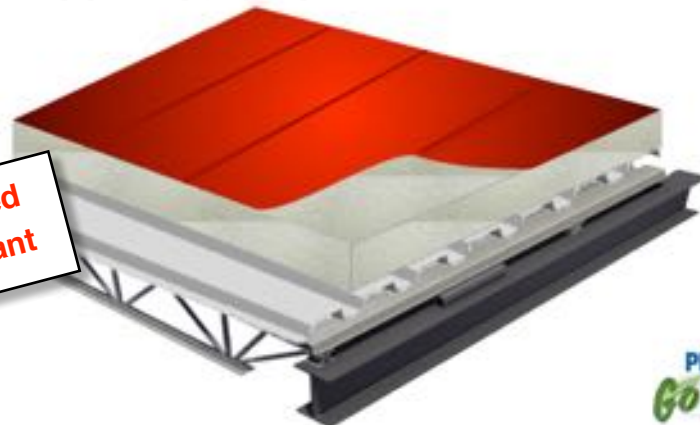
High Density Foam

Availability 4' x 4', 4' x 8' and 4' x 16' and custom sizes available

Physical Properties	ASTM Test	Performance
Compressive Resistance at 10% Strain Deformation (2" cube)	D 1621, C 165	15.0 PSI
Flexural Strength	C 203	35 PSI
Thermal Resistance (R-Value) 75 ± 2° F	C 177, C 518	4.17 R per inch
Thermal Resistance (R-Value) 40 ± 2° F	C 177, C 518	4.55 R per inch

Metal Roof *Under* Insulation

Most Cost Effective Metal Roof Insulation



State Approved Code Compliant



Plymouth Foam

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Plymouth, WI 53073

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Contact

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**High Density
Foam**

DuraSpec M150 HD EPS Physical Properties

Physical Properties	Units	ASTM Test	Type II
Compressive Resistance at 10% Strain Deformation (2" cube)	Min psi (kPa)	D 1621, C 165	15.0 (104)
Flexural Strength	Min psi (kPa)	C 203	35.0 (240)
Thermal Resistance (R-Value) [*] 75 ± 2° F (24 ± 1° C) 40 ± 2° F (4.4 ± 1° C)	Min R" for 1" thickness	C 177, C 518	4.17 (0.73) 4.55 (0.77)
Thermal Conductivity (K-Value) [*] 75 ± 2° F (24 ± 1° C) 40 ± 2° F (4.4 ± 1° C)	BTU/(hr) (Sq.Ft.) (F/in.)	C 177, C 518	0.240 (1.37) 0.220 (1.26)
Coefficient of Thermal Expansion	In./[In.)(F)	D 696	0.000035
Moisture Resistance Water Absorption by total immersion	% by volume Max	C 272	3.0
Water Vapor Permeability of 1" (25.4 mm) thickness max perm	Max perm/in (ng/Pa's'm ²)	E 96	3.5 (201)
Oxygen Index	Min volume %	D 2863	24.0
Dimensional Stability (Change in dimensions)	Max %	D 2126	2.0
Max. Service Temperature Long Term / Intermittent	F		167 / 180
Flame Spread		E84-81A	5 @ 4"
Smoke Developed		E84-81A	2-235
Density, minimum	Min lb/ft ³ (kg/m ³)	C 303	1.35 (22)
Density, nominal	lb/ft ³		1.50

R-Value ASTM C117, C518

Thickness	R-Value @ 75°	R-Value @ 40°
3"	12.51	13.65
2.4	10.01	10.92
2"	8.34	9.10
1.5"	6.26	6.83
1.2"	5.01	5.46
1"	4.17	4.55

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Engineered Expanded Polystyrene (EPS) rigid insulation is the most cost effective foundation, below grade, below slab insulation. Engineered EPS is lightweight, durable and very versatile. DuraSpec Insulation can be formulated to provide a wide range of engineering properties for most projects needs.

Advantages of Plymouth Foam High Quality EPS

Plymouth Foam incorporates high quality, high speed manufacturing technology for its expanded polystyrene building products. Along with our highly refined manufacturing capabilities comes our drive for precision and dedication to high quality products.

- **Long-Term Stable R-Value** - DuraSpec R-Value stays consistent providing a huge financial benefit for years.
- **Moisture Resistance** - DuraSpec EPS is closed cell and In field studies has been shown to absorb less moisture than previous considered.
- **Moisture Management** - DuraSpec EPS has the ability to rapidly release absorb moisture.
- **Non-Leaching** - DuraSpec EPS does not leach or release any harmful chemical into the soil or ground water.
- **100% Recyclable** - DuraSpec EPS has the huge advantage of being recycled over and over into various products.
- **Cost Effective** - DuraSpec EPS has been shown to be the most cost effective rigid insulation in cost per R-value board foot.
- **Lifetime R-Value Limited Warranty** - DuraSpec EPS is so confident in its product, we offers the industries best warranty.
- **Made in Wisconsin** - DuraSpec EPS is proud to see that we are manufactured in Wisconsin providing jobs for the local economy.



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