



DuraSpec M125 RetroDeck

Metal Roof Insulation



**Higher Density
Foam**

**Any Profile
Any Thickness**

DuraSpec M125 Retro Type VIII Metal Roof Channel Insulation is a closed cell EPS that meets or exceeds ASTM C578. RetroDeck is custom cut to meet each profile of any metal roof profile. RetroDeck can be manufactured to any thickness to meet any R-value requirement.

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

- ***Fits any deck profile***
- ***Fast manufacturing process***
- ***Excellent void filler***
- ***Light-weight, high strength***
- ***Compatible with other insulations***



Custom cut to fit almost any profile with thickness upto 48"

Physical Properties	ASTM Test	Performance
Compressive Resistance at 10% Strain Deformation (2" cube)	D 1621, C 165	13 PSI
Flexural Strength	C 203	30 PSI
Thermal Resistance (R-Value) 75 ± 2° F	C 177, C 518	3.92 R per inch
Thermal Resistance (R-Value) 40 ± 2° F	C 177, C 518	4.25 R per inch

Metal Roof RetroDeck Insulation

Most Cost Effective Metal Roof Insulation



**State Approved
Code Compliant**

Plymouth Foam
 1800 Sunset Dr.
 Plymouth, WI 53073
 920-889-0021
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 goplymouthfoam.com

Contact

John Calkins 920-889-0021 John@goplymouthfoam.com

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DuraSpec M125 HD EPS Physical Properties

Physical Properties	Units	ASTM Test	Type VIII
Compressive Resistance at 10% Strain Deformation (2" cube)	Min psi (kPa)	D 1621, C 165	13.0 (90)
Flexural Strength	Min psi (kPa)	C 203	30.0 (208)
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	3.92 (0.69) 4.25 (0.74)
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	0.255 (1.46) 0.235 (1.35)
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	105-190
Density, minimum	Min lb/ft ³ (kg/m ³)	C 303	1.15 (18)
Density, nominal	lb/ft ³		1.25

R-Value ASTM C117, C518

Thickness	R-Value @ 75°	R-Value @ 40°
3"	11.76	12.75
2.5"	9.80	10.63
2"	7.84	8.50
1.5"	5.88	6.38
1"	3.92	4.25
.75"	2.94	3.19

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DuraSpec M125

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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