

Direct to Deck

Roofing Insulation



EPS Direct over Metal Roof Deck is listed UL® Construction Assembly #458. DuraSpec Expanded Polystyrene (EPS) Direct to Deck Roofing Insulation helps eliminate the use of costly and labor intensive thermal barriers on project where metal roof decks are used. This application allows for greater flexibility in roof design and construction, while also providing the cost-effective, long-term performance per R-value of any rigid insulation.

- **Eliminates thermal barrier**
- **Meets UL 458 requirements**
- **Retains R-value and Low water absorption**
- **Cost effective**
- **Easy to handle, install and cut**
- **Environmentally friendly containing no CFCs or HCFCs**



DuraSpec Direct to Deck Properties

Physical Properties	I	VIII	II	IX	ASTM Test Method
Nominal Density	1.00 pcf	1.25 pcf	1.50 pcf	2.00 pcf	C 303 or D 1622
Thermal Conductivity (K Factor)					C 177 or C 518
25° F	.23 BTU/hr	.22 BTU/hr	.21 BTU/hr	.20 BTU/hr	
40° F	.24 BTU/hr	.235 BTU/hr	.22 BTU/hr	.21 BTU/hr	
75° F	.26 BTU/hr	.255 BTU/hr	.24 BTU/hr	.23 BTU/hr	
Thermal Resistance (R-Value)					C 177 or C 518
25° F	4.35/in	4.54/in	4.76/in	5.00/in	
40° F	4.17/in	4.25/in	4.55/in	4.76/in	
75° F	3.85/in	3.92/in	4.17/in	4.35/in	
Compressive Strength	10-14 psi	13-18 psi	15-21 psi	25-33 psi	D 1621
Flexural Strength	25-30 psi	30-38 psi	40-50 psi	50-75 psi	
Water Vapor Transmission	2.0-5.0 perms	1.5-3.5 perms	1.0-3.5 perms	0.6-2.0 perms	E 96
Water Absorption	4.0 (max) % by volume	3.0 (max) % by volume	3.0 (max) % by volume	2.0 (max) % by volume	C 272
Coefficient of Thermal Expansion	.000035 in	.000035 in	.000035 in	.000035 in	D 696
Max. Service Temp.					
Long Term	167° F	167° F	167° F	167° F	
Intermittent	180° F	180° F	180° F	180° F	
Flame Spread	15 at 6"	5 at 4"	5 at 4"	15 at 4"	E 84-81A
Smoke Developed	95-125	105-190	5-235	20-145	E 84-81A

Contact

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*Check Plymouth Foam's website for additional information.

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