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*"Built to Last"*

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**General Contractor of Pre-Engineered Steel Buildings and Steel Building Components**

## RIGID BOARD INSULATION

### THERMAL INSULATION AND AIR BARRIER: RIGID POLYURETHANE INSULATION

#### Description

R-Seal provides the most economical and lowest installed cost method to meet certain energy code requirements for continuous insulation, air barrier requirements, and higher installed R-Values.

With the highest R-Value per inch in the industry, custom length, integral tape tabs, and individual building detailing, this product installs as fast as a blanket insulation with higher installed R-Values than Banded Liner Systems alone can achieve.

#### Application

In addition to meeting the energy code and air barrier requirements for new construction of Pre-Engineered Metal Buildings R-Seal is a great solution for retrofits of existing buildings.

With proper trim and detailing the durable surface is also a suitable application for Walk-in Coolers.

R-Value	Thickness (inches)	Joint Style
R-15	2.0"	Butt
R-19	2.5"	Butt
R-22	3.0"	Butt/Shiplap
R-27	3.5"	Butt/Shiplap
R-30	4.0"	Butt/Shiplap



#### Rigid Board Specs

Vapor Barrier Material Testing:
Light reflectance to be >85% when tested in accordance with ASTM C-523
Bursting Strength to be >120 psi when tested to accordance with ASTM D-774
Water Vapor Performance to be <0.09 perms (grain/hr ft. sq. Hg) per ASTM E-96
Tensile Strength to be >195lbs/inch width (MD) and 150lbs/inch width (XD) when tested per ASTM C-1136
Vapor Barrier to remain flexible with no delamination. Tested at a low temperature of <-40 degrees F and high temperature of >240 degrees F per ASTM D-1790.
No growth of Fungi tested per ASTM C-1338
Vapor Barrier has excellent resistance to environmental cracking when tested per ASTM D-1693
Vapor Barrier highly resistant to solvents and chemicals when tested in accordance with ASTM D-1693

Comparison of R-Seal Versus Common Polyisocyanurate Rigid Boards		
Attribute	R-Seal Board	Polyisocyanurate Board
R-Value Per Inch	7.3	6.5
Compressive Strength	31psi	20psi
Density	2.2-2.5 lbs/sq. ft.	2.0 lbs/sq. ft.
Dimensional Stability	Good	Fair
Exposure Rated Foam	Yes	Thermax Only
Custom Lengths	Yes	No
Finished Seams	Yes	Requires Additional Products & Installation
Installation Details	Yes	Not Available