R-TECH® PLATINUM

Premium R-Tech Insulation Board

R-Tech Platinum combines factory laminated metalized polymeric facers and premium GPS insulation into one product. The panel achieves an R-value of 5 per nominal 1" of thickness and can be used to efficiently meet the latest energy code requirements for continuous insulation. R-Tech Platinum is a step-up from standard R-Tech that features permanent R-value, moisture resistance and labor savings – with a higher R-value in the same thickness.

Differentiated by its rich grey core, graphite particles within Platinum GPS enhance R-value, by both reflecting and absorbing radiant energy. And it performs even better the colder the temperature. It does not experience thermal drift like other rigid insulation material making it an ideal value-added insulation for various construction applications.

APPLICATIONS:

- Continuous Insulation (CI)
- Exterior Insulation Finish Systems (EFIS)
- Traditional and One-Coat Stucco Systems
- Below Grade Walls
- Cavity Walls
- Roofing Insulation
- Cold Storage Wall and Floors

THE POWER OF R-TECH PLATINUM

- Two-sided factory laminated metalized facers improve jobsite handing
- Achieve 20% higher R-value per inch than standard EPS
- Achieve the same R-value per inch as EPS with approximately 20% less material
- Increased Effective R-value† when the metallic facer is positioned toward 0.75" to 3.5" of dead air space
- R-value increases as outside temperatures decrease – ideal for cold climates
- Ideal for space, or assembly constrained applications where reduced thickness is valued
- All the benefits of standard R-Tech: permanent R-value, moisture resistance, quick drying structure, insect resistance, and labor savings options

†The type of construction application and the depth of the air space will also impact the actual Effective R-value.

TYPICAL TESTED PHYSICAL PROPERTIES

R-Tech Platinum R5 Insulation*

Property		R-Tech Platinum I	R-Tech Platinum X	R-Tech Platinum IV	Test Method
Density (nom. pcf.)		1.00	1.50	2.00	ASTM C303
R-value / nominal 1 in.** Thermal Resistance"	@ 75° F	5.0	5.0	5.0	ASTM C518
	@ 40° F	5.2	5.2	5.3	
Compressive Strength (psi, 10% deformation)		10	15	25	ASTM D1621
Flexural Strength (min. psi.)		25	50	70	ASTM C203
Water Absorption (max. % by vol.)		< 1.0	< 1.0	< 1.0	ASTM C272
Moisture Vapor Permeance*** (max. perm.)		< 1.0	< 1.0	< 1.0	ASTM E96
Flame Spread Index		20	20	20	ASTM E84
Smoke Developed		150-300	150-300	150-300	ASTM E84

R-Tech Platinum R10 Insulation*

Property		R-Tech Platinum I	R-Tech Platinum X	R-Tech Platinum IV	Test Method
Density (nom. pcf.)		1.00	1.50	2.00	ASTM C303
R-value / nominal 1 in.** Thermal Resistance"	@ 75° F	10.0	10.0	10.0	ASTM C518
	@ 40° F	10.4	10.4	10.6	

Effective R-value

R-Tech Platinum I Thickness	Design Temp.	Effective R-value (R-Tech Platinum + Air Space)†
Nominal 1" Actual 1.06" or 1-1/16"	40° F	7.55
	75° F	7.35
Actual 1.625" or 1-5/8"	40° F	10.15
	75° F	9.85
Actual 2.13" or 2-1/8"	40° F	12.75
	75° F	12.35

* Properties are based on data provided by resin manufacturers, independent test agencies and Insulfoam.
** R5 board is 1.06" thick. R10 board is 2.13" thick.
***Based on nominal 1" thickness.
†Effective R-value determined using R-TECH Platinum I. Higher density products will provide higher R-value gains. The type of construction application and the depth of the air space will also impact the actual Effective R-value. Requires 0.75"- 3.50" dead air space and the R-TECH metallic-reflective facer towards the dead air space.

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