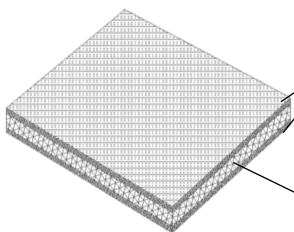


Meets the requirements of ASTM C 1484

Meets the requirements of ASTM C 1289, Type II, Class 4, Grades 1,2 and 3

Currently no ASTM designation for this composite

High Performing, VIP Composite, Sustainable, Saves Energy, Reduces Construction Costs



High Density Polyisocyanurate
Foam with Mineral-Surfaced,
Fiber Glass—Reinforced Facers

High performance Vacuum
Insulated Panel Core

PACKAGING & DIMENSIONS

Standard Flat Sizes	3' x 4' x 1-1/2" ⁽¹⁾ (0.915m x 1.22m x 3.81m)
Production Location	Newark, OH
Board Weight	27 lb. (12.25 kg)
Coverage per Pallet	312 ft ²
Boards per Pallet	26 bds.
Pallet Weight	702 lbs.
Pallets per Truck	12 pallets ⁽²⁾

⁽¹⁾ Custom-sized panels available

⁽²⁾ Pallets can not be stacked

Provides thermal conductivity equal or less than 0.02 BTU-in./ft.²-hr-F° per 1" VIP thickness.*

FEATURES & COMPONENTS

- ▶ **High R-Value Insulated Core:** High performance fiber-glass core vacuum sealed in a plastic reinforced barrier.
- ▶ **Laminated High-Density Polyisocyanurate Foam Core:** Closed cell Polyisocyanurate foam provides protection, added insulation, with lightweight and low water absorption characteristics.
- ▶ **Material Thinness:** Provides low profile applications that conventional insulation cannot provide. Less handling, less disposal and less labor.
- ▶ **Lightweight:** Easy loading and maneuverability around the roof. Reduces the concern of overloading roof deck capacity.
- ▶ **Environmentally Friendly:** Less transportation costs, less volume of materials and less impact on landfills.
- ▶ **Resistant to Damage:** High impact capabilities, compressively strong with the ability to withstand heavy roof foot traffic.

SYSTEM COMPATIBILITY

	TPO	PVC	EPDM
SYSTEMS	Fully Adhered	Fully Adhered	Fully Adhered
	Paver	Paver	Paver
	Vegetative	Vegetative	Vegetative

ENERGY & ENVIRONMENT

LEED®	Recycled Content	Pre-Consumer: 1.21%
		Post-Consumer: 0.65%

Percentages vary based on thicknesses. Report available upon request.

APPROVED STANDARD
ANSI/SPRI RP-4 2013
ANSI/FM 4474



INSTALLATION/APPLICATION



Fully Adhered System



Loose-Laid Paver System



Vegetative System

Refer to the Material Safety Data Sheet and product specification prior to using this product.



R-50 value in 1" thickness · Energy Efficiency with Net Zero Waste

Meets the requirements of ASTM C 1484

TYPICAL PHYSICAL PROPERTIES	TEST	ASTM	R-50 Insulation Panel	
	Thickness		0.065 inch increments	1.65 mm increments
	Density	D1622	16 lb/ft ³	256 kg/m ³
	Thermal Conductivity	ASTM C518	0.02 BTU-in/hr-ft ² -°F	.00288 W/m.K
	Flexural Yield Strength	ASTM C203	@10% 45psi	0.31 MPa
	Flexural Modulus	ASTM C203	7400 psi	51.0 MPa
	Flame Spread (Vacuum Insulated Panel)	E84	Class A	Pass
	Compressive Strength @ 10% compression	C165/D1621	9 psi/as composite 17psi	62 kPa/as composite 117.21 kPa
	Mold Resistance	D3273	-	Pass

Insulation Type	Thickness		Normal R-value (Resistance)	
	In.	mm.	hr-ft ² -°F/BTU	m ² -K/W
High Performance Vacuum Insulated Panel	1"	25.4	50	8.806

Meets the requirements of ASYM C 1289, Type II, Class 4, Grades 1,2 and 3

TYPICAL PHYSICAL PROPERTIES	TEST	ASTM	R-50 Insulation Panel	
			English Units	Metric Units
	Compressive Strength , psi (kpa), <i>nom</i>	D1621	150 psi	1,034 kPa
	Flexural Strength Modulus of Rupture, psi (kpa), <i>nom</i> Breakload, LBF (kN), <i>nom</i>	D1037	1500 psi 25 psi	10,343 kPa 0.11 kPa
	Moisture Vapor Permeance, Perm (ng/(Pa·s·m ²)), <i>max</i>	E96	<1	<57.5
	Water Absorption, % by vol, <i>max</i>	C209	<4	-
	Surface Water Absorption, gram, <i>max</i>	C473	<1	-
	Mold Resistance	D3273	Pass	Pass
Flame Spread (Vacuum Insulated Panel)	E84	Class A	Pass	

Insulation Type	Thickness		Normal R-value (Resistance)	
	In.	mm.	(hr·; ² -°F)/BTU	m ² -°C/W
High Density Polyisocyanurate Foam w/ Mineral Coated Fiber Glass-Reinforced Facer	1/4"	6.4	1.2	0.21

*Tested in accordance with ASTM C518 (heat flow meter).

Refer to the Material Safety Data Sheet and product specification prior to using this product.