

Description

Invinsa is a resilient, lightweight roof board designed as an integral component of the roof system, providing a protective layer for the insulation, while working with the membrane above to ensure maximum performance and longevity.

This patent-pending, high-density polyisocyanurate technology is bonded in-line to mineral-surfaced, fiber glass-reinforced facers. In single ply and bituminous cold-applied and self-adhered roof systems, Invinsa enhances fire, water and hail resistance, and it will not support mold growth.

Code Approvals and Testing

Invinsa has been tested according to the requirements of ASTM C 209; C 473; C 518; C 1289, Type II, Class 2; D 1037; D 1621; D 2126; D 3273 and E 96. It has been classified by Underwriters Laboratories Inc. as an approved cover board for certain Class "A" fire-rated roof constructions. It can be used in numerous FM Global®* 1A-90 or above roof constructions.

Use

Invinsa optimizes roof system performance in new, re-cover and re-roof applications. It can be installed over an existing roof to increase the integrity of the new roof. The coated fiber glass facers provide strong, smooth surfaces suitable for mechanically attached or fully adhered membranes, without the need for priming.

Advantages

- Invinsa's light weight offers labor and installation efficiencies and allows more options for situations where the overall weight is a concern
- Light weight also means easy hoisting, staging and maneuvering around the roof
- High impact and flexural strength provide increased resistance to damage from various sources, including but not limited to hail, foot traffic, construction loads and normal roof maintenance
- Low water absorption characteristics offer performance benefits in diverse environments
- JM Invinsa roof board is user friendly, allowing easy and efficient scoring, cutting and snapping, which permits fast, tight fabrication around roof penetrations
- Board composition provides a low dust environment and smooth surface for better adhesion
- Flexibility means less breakage during handling, and in re-cover applications it allows Invinsa to accommodate minor irregularities in existing roofs



Typical Physical Properties

	English Units	Metric Units	ASTM Test Method
Thickness (nominal)	¼"	6.35 mm	—
Width	4'	1.22 m	—
Length, Standard	4' 8'	1.22 m 2.44 m	— —
Flexural Strength	2000 psi 28 lbf	13,790 kPa 4.9 kN/m	D 1037 D 1037
Dimensional Stability	<0.6%	<0.6%	D 2126
Moisture Vapor Permeance	<1 perm	<57.5 ng/(Pa*s*m²)	E 96
R-Value	1.0 (hr*ft²*°F)/Btu	0.18 m²*°C/W	C 518
Water Absorption (max)	2.6%	2.6%	C 209
Compressive Strength (nom)	150 psi 21,600 psf	1034 kPa 1,034,200 Pa	D 1621
Surface Water Absorption	<1 gram	<1 gram	C 473
Mold Resistance	Pass	Pass	D 3273
Weight per 4' x 8' Sheet (1.22 m x 2.44 m)	12 ± 2 lb	5.4 ± 0.9 kg	—
Weight per Pallet (4' x 8' sheets)	370 lb	167 kg	—
Sheets per Pallet			
4' x 8' (1.22 m x 2.44 m)	30 Sheets	30 Sheets	—
4' x 4' (1.22 m x 1.22 m)	30 Sheets	30 Sheets	—

* FM Global® is a registered trademark of Factory Mutual Insurance Company.