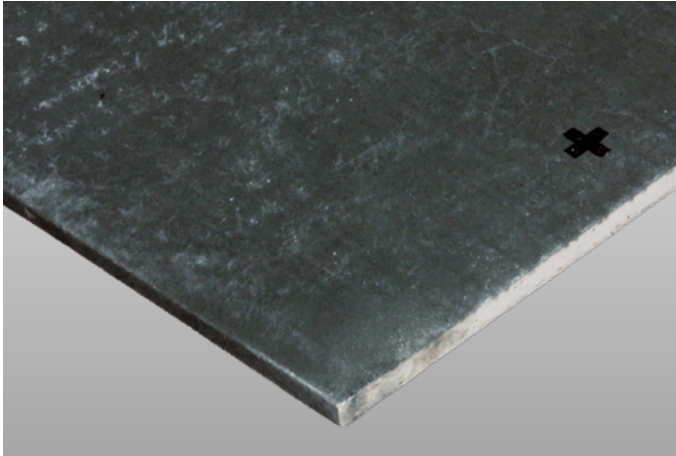


# DensDeck® ProFast™ Prime Roof Board



## Overview

DensDeck ProFast Prime Roof Board is an innovative, lightweight roofing solution designed to enhance performance, efficiency, and cost savings in roofing applications. Specifically engineered for mechanically attached roofing systems, as well as adhered and partially adhered (hybrid) assemblies, DensDeck ProFast Prime Roof Board offers exceptional resistance to fire, wind uplift, punctures, and hail and addresses the needs of contractors and designers with an ideal solution for high-performance roofing systems. Its proprietary fiberglass mat facing and gypsum core deliver reliable, noncombustible (per ASTM E136) protection and outstanding performance in adverse conditions.

## Features and Benefits

- » 20% lighter than ½" DensDeck Prime
- » Reduces number of fasteners needed
- » 25% more product per truck

## Panel Characteristics

- » 4' x 8' with a thickness of ¾"

## Applications

DensDeck ProFast Prime Roof Board is compatible with many types of roofing systems, including modified asphalt, single-ply, metal systems, recover board, as well as an overlayment for polyisocyanurate and polystyrene insulation. DensDeck ProFast Prime Roof Board can also be used as a form board for poured gypsum concrete decks in roof applications.

## Installation

DensDeck ProFast Prime Roof Board is manufactured to act with a properly designed roof system following good roofing practices. The actual use of DensDeck ProFast Prime Roof Board as a roofing component in any system or assembly is the responsibility of the roofing system's design authority. Consult with the appropriate system manufacturer and/or design authority for system and assembly specifications and instructions on applying other products to DensDeck ProFast Prime Roof Board.

The need for a separator sheet between the DensDeck ProFast Prime Roof Board and the roofing membrane must be determined by the roof membrane manufacturer or roofing system designer.

DensDeck ProFast Prime Roof Board should not be subjected to abnormal or excessive loads or foot traffic, such as, but not limited to, use on plaza decks or under steel-wheeled equipment that may fracture or damage the panels. Provide suitable roofing system protection when required.

## Handling and Use – CAUTION

This product contains fiberglass facings, which may cause skin irritation. Dust and fibers produced during the handling and installation of the product may cause skin, eye, and respiratory tract irritation. Avoid breathing dust and minimize contact with skin and eyes. Wear long-sleeve shirts, long pants, and eye protection. Always maintain adequate ventilation. Use a dust mask or NIOSH/MSHA-approved respirator as appropriate in dusty or poorly ventilated areas.

## Moisture Management

**DensDeck ProFast Prime Roof Board, like other components used in roofing systems, must be protected from exposure to moisture before, during, and after installation.**

Remove the plastic packaging from all DensDeck ProFast Prime Roof Board Products immediately upon receipt of delivery. Failure to remove the plastic packaging may result in entrapment of condensation or moisture. Boards stored outside must be stored level and off the ground and protected by a breathable waterproof covering. Provide means for air circulation around and under stored bundles and cover the same day as they are installed.

# DensDeck ProFast Prime Roof Board

Avoid application of DensDeck ProFast Prime Roof Board Products during rain, heavy fog, and any other conditions that may deposit moisture on the surface, and avoid the overuse of non-vented, direct-fired heaters during winter months. When roofing systems are installed on new poured concrete or lightweight concrete decks, or when re-roofing over an existing concrete deck, a vapor barrier should be installed above the concrete to retard the migration of water from the concrete into the roof assembly. Always consult Carlisle SynTec Systems or the design authority for specific instructions for applying other products to DensDeck ProFast Prime Roof Board.

Moisture vapor movement by convection must be eliminated, and the flow of water by gravity through imperfections in the roof system must be controlled. After a leak has occurred, no condensation on the upper surface of the system should be tolerated, and the water introduced by the leak must be dissipated to the building's interior in a minimum amount of time.

Although DensDeck ProFast Prime Roof Board Products are engineered with fiberglass facings and high-density gypsum cores, the presence of free moisture can have a detrimental effect on the performance of the product and the installation of roofing membranes. For example, adhesives for single-ply membranes may not dry properly. Moisture accumulation may also significantly decrease wind uplift and vertical pull resistance in the system or assembly. DensDeck ProFast Prime Roof Board Products containing excessive free moisture content may need to be evaluated for structural stability to ensure wind uplift performance.

## Codes and Compliances

- » Fire Resistance Classifications
  - UL 790
  - UL 1256
  - FM Class 1
  - Type X
  - UL Fire Resistance Ratings Type DD

## Typical Properties and Characteristics

Properties	¾" (9.5 mm)
Thickness, nominal	¾" (9.5 mm) ± ½" (.8 mm)
Width, standard	4' (1219 mm) ± ½" (3 mm)
Length, standard	8' (2438 mm) ± ¼" (6.4 mm)
Weight, nominal, lbs./sq. ft. (Kg/m <sup>2</sup> )	1.64 (8)
Surfacing	Fiberglass mat with non-asphaltic coating
Flexural Strength, parallel, bf. min. (N)	≥100 (444)
Flute Spanability	5" (127 mm)
Permeance, Perms (ng/Pa•S•m <sup>2</sup> )	>30 (>1710)
R Value, ft <sup>2</sup> •°F•hr/BTU (m <sup>2</sup> •K/W)	0.33
Linear Variation with Change in Temp., in/in °F (mm/mm/C°)	8.5 x 10 <sup>1</sup> (15.3 x 10 <sup>1</sup> )
Linear Variation with Change in Moisture	6.25 x 10 <sup>1</sup>
Water Absorption, % max	5
Compressive Strength, psi (avg)	880
Surface Water Absorption, grams, nominal	1
Mold Resistance	10 (highest possible)
Product Standard Compliance	ASTM C11771

<sup>1</sup>Specified values per ASTM C1177