

PRODUCT DATA SHEET

Edition 04.2016/v1

DensDeck® Prime Roof Board

Description	DensDeck® Prime is a rigid fire-tested roof board used with or without insulation as an overlayment or thermal barrier under Sika® Sarnafil® membranes.
Composition	DensDeck® Prime is a non-structural, glass-mat faced, moisture-resistant, treated gypsum-core panel. This treated gypsum core is an integral part of the inorganic glass mat surfacing on both sides. DensDeck® Prime also has a non-asphaltic surface treatment which provides a stronger bond for adhered membrane applications. Together these materials provide dimensional stability and thermal protection of the structural deck, insulation and Sika® Sarnafil® membrane.
Features	DensDeck® Prime is compatible with all Sika® Sarnafil® membranes without the use of a separation layer. Maximum flute spans are 67 mm (2-5/8 in) for 6 mm (1/4 in) DensDeck® Prime, 127 mm (5 in) for 13 mm (1/2 in), 200 mm (8 in) for 16 mm (5/8 in). Contact Sika Canada Technical Services for specific cautions regarding the surfaces on which DensDeck® Prime is intended to be installed. DensDeck® Prime has a Flamespread rating of 0 and a Smoke Developed rating of 0 when tested in accordance with ASTM E84. DensDeck® Prime has been tested, listed and/or approved by UL and FM in roof assembly constructions.
Packaging/Storage	Standard dimensions : Board of 1.20 x 2.40 m (4 x 8 ft) Available thicknesses & coverage per bundle of board: - 6 mm (1/4 in) covers approx. 124 m ² (1344 ft ²) - 13 mm (1/2 in) covers approx. 89 m ² (960 ft ²) - 16 mm (5/8 in) covers approx. 89 m ² (960 ft ²) Packaging & shipping: Wrapped and supported bundles of 1.20 x 2.40 m (4 x 8 ft). Protect DensDeck® Prime from damage and moisture during transportation and storage.
Installation	DensDeck® Prime is installed by a Sika Canada Authorized Applicator by mechanical-attachment to the roof deck with Sarnafasteners and Sarnaplates or by full attachment with specialized adhesive(s) (options depend on deck type and Sika® Sarnafil® system to be installed). Maximize board lengths to minimize end joints. When installed directly on fluted steel decks, edge joints of DensDeck® Prime are to be parallel to and over deck ribs with end joints staggered. Drive fasteners firmly against and flush with surface of DensDeck® Prime. DensDeck® Prime is cut by scoring and breaking or by manual sawing. Do not use power saw. Do not install more DensDeck® Prime than can be covered with welded Sika® Sarnafil® membrane in that day.
Availability	DensDeck® Prime is available directly from Sika Canada Authorized Applicators when used within a Sika® Sarnafil® Roofing or Waterproofing System. Contact Sika Canada or visit our website at www.sika.ca for further information.
Warranty	Upon successful completion of the installed roof by the Sika Canada Authorized Applicator, Sika Canada can provide a Warranty to the Building Owner via the Authorized Applicator.
Maintenance	DensDeck® Prime requires no maintenance. As a prudent preventative measure, Sika Canada recommends that the Owner or that the Owner's designated representative inspect the installed roof system for damage, plugged drains, weathered sealants, etc. at least twice a year and after each storm.
Technical Support	Sika Canada provides technical support. Technical staff is available to advise applicators as to the proper installation method.

Technical Data	ASTM Method	6 mm (1/4 in) DensDeck® Prime Overlayment	13 mm (1/2 in) DensDeck® Prime Roof Board	16 mm (5/8 in) Fireguard® DensDeck® Prime Roof Board
Properties				
Thickness, Nominal (in) mm		5/16 (6.4)	1/2 (12.7)	5/8 (15.9)
Width, Nominal		4 pi ± 1/8 po (1220 mm ± 3 mm)	4 pi ± 1/8 po (1220 mm ± 3 mm)	4 pi ± 1/8 po (1220 mm ± 3 mm)
Length, Standard		8 pi ± 1/4 po (2440 mm ± 6.4 mm)	8 pi ± 1/4 po (2440 mm ± 6.4 mm)	8 pi ± 1/4 po (2440 mm ± 6.4 mm)
Weight, lbs/ft² (kg/m²), Nominal Surfacing		1.15 (5.61)	1.975 (9.64)	2.55 (12.44)
		Fibreglass mat with non-asphaltic coating	Fibreglass mat with non-asphaltic coating	Fibreglass mat with non-asphaltic coating
Flextural Strength Parallel, psi (kPa) min.	C 1177	40 (275)	80 (550)	100 (695)
Flute Spanability, in (mm)	E 661	2 5/8 (67)	5 (127)	8 (203)
Permeance, perms (ng/Pa•s•m²)	E 96	50 (2873)	35 (2010)	32 (1838)
R-Value (RSI)	C 518	0.28 (0.05)	0.56 (0.1)	0.67 (0.12)
Coefficient of thermal expansion in/in•°F (mm/m•°C)		8.5 x10 ⁻⁶ (1.53 x 10 ⁻²)	8.5 x10 ⁻⁶ (1.53 x 10 ⁻²)	8.5 x10 ⁻⁶ (1.53 x 10 ⁻²)
Linear variation w/change in moisture, in/in•% HR		6.25 x10 ⁻⁶	6.25 x10 ⁻⁶	6.25 x10 ⁻⁶
Absorption, % max.	C 473	10	10	10
Compression, psi (kPa) min.		500 (3450)	500 (3450)	500 (3450)
Surface Water Absorption, g	C 473	2.0	2.0	2.0
Flame spread, Smoke Developed	E 84	0/0	0/0	0/0
Fire classification		FM Class 1 (as overlayment)	FM Class 1 (FM 4450)	FM Class 1 (FM 4450)
		UL 1256, ULC S-126 UL Class A (UL 790) ULC S-107	UL 1256, ULC S-126 UL Class A (UL 790) ULC S-107	UL 1256, ULC S-126 UL Class A (UL 790) ULC S-107
Mold resistance	D 3273	Mold resistant	Mold resistant	Mold resistant
Uplift Standards and Testing		ANSI/UL 1897 ASCE 7 FM 4470	ANSI/UL 1897 ASCE 7 FM 4470	ANSI/UL 1897 ASCE 7 FM 4470
Bending radius, ft (m)		5 (1.5)	8 (2.4)	12 (3.7)

Fireguard® & DensDeck® Prime are registered trademarks of the Georgia-Pacific Corporation. 1Tested in accordance with ASTM C473.

Product properties are typically averages, obtained under laboratory conditions. Reasonable variations can be expected on-site due to local factors, including environment, preparation, application, curing and test methods.

Health and Safety Information

For information and advice on the safe handling, storage and disposal of chemical products, users should refer to the most recent Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

KEEP OUT OF REACH OF CHILDREN
FOR INDUSTRIAL USE ONLY

The Information, and in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions, within their shelflife. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any recommendations, or from any other advice offered. The information contained herein does not relieve the user of the products from testing them for the intended application and purpose. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request or may be downloaded from our website at: www.sika.ca

SIKA CANADA INC.

Head Office
601, avenue Delmar
Pointe-Claire, Quebec
H9R 4A9

Other locations
Toronto
Edmonton
Vancouver

1-800-933-SIKA
www.sika.ca

An ISO 9001 certified company
Pointe-Claire: ISO 14001 certified EMS