



Georgia-Pacific

DensDeck DuraGuard[®]

Roof Board

Technical Service Hotline 1.800.225.6119 or
www.densdeck.com

Manufacturer Georgia-Pacific Gypsum LLC
133 Peachtree Street, 8th floor, Atlanta, GA 30303
Technical Service Hotline 1-800-225-6119 or www.densdeck.com

Description DensDeck DuraGuard[®] is an enhanced roof board incorporating a low perm, integrated coating with all the features of DensDeck[®] Roof Board. Additionally, the durable DuraGuard coating provides an ideal substrate for a wide variety of adhered roofing systems, including self-adhered and hot-mopped membranes. The coated surface assures more uniform spreading of adhesives with an even better coverage rate than DensDeck Prime[®] and can eliminate the need for field priming with a number of systems*. Ideal for metal roof systems and fluid-applied membranes.

The patented DensDeck design employs glass mat facings front and back over a water- and moisture-resistant treated core, providing excellent fire resistance, moisture resistance and wind uplift properties. The unique construction of DensDeck DuraGuard provides superior flute spanning and will help stiffen and stabilize the roof deck. DensDeck DuraGuard also has been shown to withstand delamination, deterioration, warping and jobsite damage more effectively than roofing membrane substrates such as paper-faced gypsum board, fiberboard and perlite insulation. DensDeck DuraGuard resists the growth of mold when tested, as manufactured, per ASTM D 3273.

Primary Uses DensDeck DuraGuard has been found to be an ideal substrate for self-adhered, hot mopped, cold mastic and torched asphaltic systems as well as all fully adhered, single-ply systems. 1/2" and 5/8" DensDeck DuraGuard may also be used in vertical applications as a substrate board for the roof side of parapet walls. DensDeck DuraGuard allows the bonding of cold mastic and torching of modified bitumen membranes directly to its surface. *Consult with the system manufacturer for recommendations on this application.* DensDeck DuraGuard is compatible with bonding adhesives for fully-adhered singleply membrane applications and has been shown to extend adhesive uniformity and coverage even further than DensDeck Prime. DensDeck DuraGuard's exceptional moisture resistance makes it the preferred substrate for adhered vapor retarders. An excellent fire barrier, DensDeck DuraGuard features a noncombustible core and inorganic surface that offers greater fire protection than other conventional commercial roofing products when applied over combustible roof decks and steel decks.

Limitations DensDeck DuraGuard is designed to act with a properly designed roof system. The actual use of DensDeck DuraGuard Roof Board as a roofing component is the responsibility of the roofing system's designing authority. Georgia-Pacific Gypsum does not offer roofing system design services.

The effect and positioning of DensDeck DuraGuard's low-perm coating must be considered in the design of the roofing assembly. Conditions beyond the control of Georgia-Pacific Gypsum such as weather conditions, dew, application temperatures and techniques may cause adverse effects with adhered roofing systems. Always consult roofing system manufacturers for their specific instructions on applying their products to DensDeck DuraGuard roof board.

Panels must be kept dry before, during and after installation. Apply only as much DensDeck DuraGuard as can be covered by a roof membrane system in the same day. DensDeck DuraGuard should not be subjected to abnormal or excessive loads or foot traffic areas. Provide suitable roof protection where required.

Accumulation of water due to leaks or condensation in or on DensDeck DuraGuard roof board must be avoided during and after construction. Avoid over-use of nonvented, direct-fired heaters during winter months. Avoid application of DensDeck DuraGuard during rains, heavy fogs and other conditions that may deposit moisture on the surface.

When torching to DensDeck DuraGuard, maintain the majority of the torch flame on the mod-bit roll rather than on the surface of the board. Field priming should not be required.

When hot mopping asphalt or coal tar to DensDeck DuraGuard, follow system manufacturer's recommended application temperature guidelines and good roofing practices.

When applying solvent-based adhesives or primers, allow sufficient time for the solvent to flash off to avoid damage to roofing components.

Maximum flute span is 2-5/8" for 1/4" DensDeck DuraGuard; 5" for 1/2" DensDeck DuraGuard; and 8" for 5/8" DensDeck DuraGuard Fireguard[®] Type X. Consult membrane manufacturer for specific system installation instructions.

* Confirm priming requirements with membrane manufacturer.

Submittal Approvals

Job Name _____

Contractor _____

Date _____

Stamps / Signatures

Technical Data Flame spread 15, smoke developed 0 when tested in accordance with ASTM E 84 or UL 723/ULC S102.
 Class A fire barrier rating per UL 790.
 Code-accepted thermal barrier alternate per UL 1256.
 Noncombustible when tested in accordance with ASTM E 136.
 Miami-Dade County, Florida NOA 07-0124.02.

Properties	1/4"	1/2"	5/8"
Thickness, nominal	1/4" + 1/16"	1/2" ± 1/32"	5/8" ± 1/32"
Width, standard	4' ± 1/8"	4' ± 1/8"	4' ± 1/8"
Length, standard	4' and 8' ± 1/4"	4' and 8' ± 1/4"	4' and 8' ± 1/4"
Weight, lbs./sq. ft., nominal	1.5	2.0	2.5
Surfacing Treatment to one side	Fiberglass mat Durable, low perm coating	Fiberglass mat Durable, low perm coating	Fiberglass mat Durable, low perm coating
Flexural Strength ¹ , parallel, lbs. min.	40	80	100
Flute Spanability ²	2-5/8"	5"	8"
Permeance ³ , perms	≤2	≤2	≤2
"R" Value ⁴	.28	.56	.67
Linear Variation with Change in Temp., in/in °F	8.5x10 ⁻⁶	8.5x10 ⁻⁶	8.5x10 ⁻⁶
Linear Variation with Change in Moisture, in/in %RH	6.25x10 ⁻⁶	6.25x10 ⁻⁶	6.25x10 ⁻⁶
Water Absorption ⁵ , % max	10.0	10.0	10.0
Compression Strength, psi nominal	1500	500 - 900	500 - 900
Surface Water Absorption ⁵ , grams, nominal	< 1.0	< 1.0	< 1.0
Flame Spread, Smoke Developed (ASTM E 84)	15/0	15/0	15/0
Fire Classification	FM CLASS 1 (as overlayment)	FM CLASS 1 (as overlayment)	FM CLASS 1 (as overlayment)
	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 per ASTM D 3273 ⁶	Mold resistant	Mold resistant	Mold resistant
ASTM Standard	C 1177	C 1177	C 1177
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	8'	12'	16'

1. Tested in accordance with ASTM C 473.

2. Tested in accordance with ASTM E 661 (400 lb. conc. load only for 1/2" and 5/8").

3. Tested in accordance with ASTM E-96 (dry cup method).

4. Tested in accordance with ASTM C 518 (heat flow meter).

5. ASTM C 1177 minimums.

6. When tested as manufactured in accordance with ASTM D 3273.



SALES INFORMATION AND ORDER PLACEMENT

U.S.A. Midwest: **1-800-876-4746** West: **1-800-824-7503**
 South: **1-800-327-2344** Northeast: **1-800-947-4497**

CANADA Canada Toll Free: **1-800-387-6823**
 Quebec Toll Free: **1-800-361-0486**

Georgia-Pacific Gypsum Technical Hotline
 U.S.A. and Canada: **1-800-225-6119**
 Mon.-Fri., 8 a.m.- 5 p.m. ET

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UPDATES AND CURRENT INFORMATION

The information in this document may change without notice. Visit our Web site for updates and current information.

LIMITATION OF REMEDIES AND DAMAGES

Unless otherwise stated in our written limited warranty for this product, our sole liability for any product claim shall be limited to reimbursement of the cost of repair or replacement of the affected product, up to a maximum amount of two times the original purchase price for the affected product. We shall not be responsible under any circumstances for lost profits, damage to a structure or its contents, or indirect, incidental, special or consequential damages. Claims shall be deemed waived if they are not submitted to us in writing within ten days after discovery.

SAFETY CAUTION:

This product contains fiberglass. Fibers and dust may be released from this product during normal handling and may result in skin, eye and respiratory irritation. Avoid breathing dust and contact with the skin and eyes. Follow these standard work practices: Wear a loose-fitting, long-sleeved shirt and long pants, protective gloves and eye protection (goggles or safety glasses with side shields). Wear a dust mask when sanding. Additional protection may be needed when very dusty. Do not use a power saw. For Material Safety Data Sheet or additional information, call 1-800-225-6119 or visit our Web site.