

# DensDeck®

Prime Roof Board

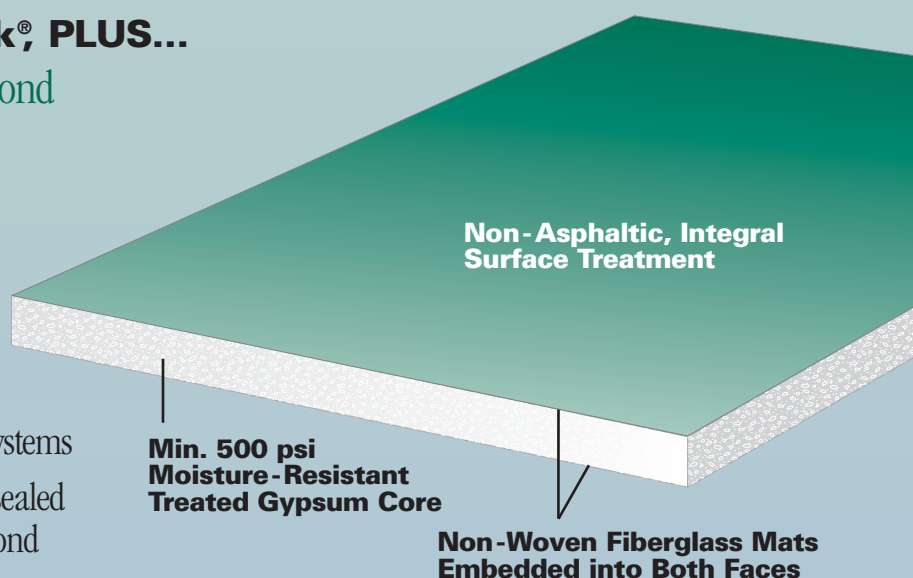
**Featuring a non-asphaltic, integral surface treatment for an enhanced bond and reduced fasteners.**

**All the properties of DensDeck®, PLUS...**

- Creates a more consistent, stronger bond
- Reduces adhesive requirements
- Fewer fasteners required
- Allows for uniform drying time

**Uses:**

- Fully-adhered single-ply systems
- Torch and cold-applied modified bitumen systems
- Other commercial roofing systems where a sealed surface is desirable for a highly consistent bond



| Features  | Benefits   |
|---|--|
| Reduces adhesive use in single-ply systems by up to 50 percent          | Significant cost savings   |
| Fewer fasteners required for higher wind uplift resistance              | Lower installation cost  |
| Minimizes blistering during torch application of modified bitumens      | Allows for a more consistent bond                                  |
| Darker color that accelerates drying of surface after moisture exposure | Diminishes risk of trapped moisture                                |
| Fiberglass mat is encapsulated with coating                             | Reduces skin irritation from exposed glass fibers                  |
| High-strength bonds with both adhesive and modified bitumen             | Improves wind uplift performance and reduces fastener requirements |
| Allows uniform drying of single-ply adhesives and cold mastics          | Facilitates a more consistent bond without blisters                |
| Moisture-resistant core   | Superior mold and fire resistance                                  |
| Fiberglass mats embedded into core on both faces                        | Results in dimensional stability and prevents warping              |

# DensDeck® Prime Properties, Standards and Classifications



|  | 1/4" DensDeck Prime                                    | 1/2" DensDeck Prime                                    | 5/8" DensDeck Prime Fireguard®                         |
|--|--|--|--|
| 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                        | 1.15 - 1.25  | 1.975  | 2.55   |
| Surfacing  | Fiberglass mat<br>Durable, low-perm coating            | Fiberglass mat<br>Durable, low-perm coating            | Fiberglass mat<br>Durable, low-perm coating            |
| Flexural Strength <sup>1</sup> , parallel, lbs. min. | 40   | 80   | 100  |
| Flute Spanability <sup>2</sup>                       | 2-5/8"   | 5"   | 8"   |
| Permeance <sup>3</sup> , perms                       | 50   | 35   | 32   |
| "R" Value <sup>4</sup>                               | .28  | .56  | .67  |
| Linear Variation with Change in Temp., in/in °F      | 8.5 x 10 <sup>-6</sup>                                 | 8.5 x 10 <sup>-6</sup>                                 | 8.5 x 10 <sup>-6</sup>                                 |
| Linear Variation with Change in Moisture, in/in %RH  | 6.25 x 10 <sup>-6</sup>                                | 6.25 x 10 <sup>-6</sup>                                | 6.25 x 10 <sup>-6</sup>                                |
| Water Absorption <sup>5</sup> , % max                | 10.0   | 10.0   | 10.0   |
| Compressive Strength, psi nominal                    | 500 - 900  | 500 - 900  | 500 - 900  |
| Surface Water Absorption, grams, nominal             | ≤ 2.0  | ≤ 2.0  | ≤ 2.0  |
| Flame Spread, Smoke Developed (ASTM E 84)            | 0/0  | 0/0  | 0/0  |
| Fire Classification                                  | FM CLASS 1<br>(as overlayment)                         | FM CLASS 1 (FM 4450)                                   | FM CLASS 1 (FM 4450)                                   |
|  | UL 1256, ULC S-126<br>UL Class A (UL 790)<br>ULC S-107 | UL 1256, ULC S-126<br>UL Class A (UL 790)<br>ULC S-107 | UL 1256, ULC S-126<br>UL Class A (UL 790)<br>ULC S-107 |
| Mold Resistance per ASTM D 3273 <sup>6</sup>         | Mold resistant   | Mold resistant   | Mold resistant   |
| ASTM Standard  | C 1177   | C 1177   | C 1177   |
| Uplift Standards and Testing                         | ANSI/UL 1897<br>ASCE 7<br>FM 4470                      | ANSI/UL 1897<br>ASCE 7<br>FM 4470                      | ANSI/UL 1897<br>ASCE 7<br>FM 4470                      |
| Bending Radius                                       | 5'   | 8'   | 12'  |

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**

## TECHNICAL INFORMATION

Georgia-Pacific Gypsum Technical Hotline  
U.S.A. and Canada: **1-800-225-6119**  
[www.gpgypsum.com](http://www.gpgypsum.com)



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## TRADEMARKS

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## UPDATES AND CURRENT INFORMATION

The information in this document may change without notice. Visit our website at [www.gpgypsum.com](http://www.gpgypsum.com) for updates and current information.

## LIMITATION OF REMEDIES AND DAMAGES

Unless otherwise stated in our written warranty for these products, 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 (10) days after discovery of a product defect/circumstance giving rise to a claim.

**CAUTION: For product fire, safety and use information, go to [gp.com/safetyinfo](http://gp.com/safetyinfo).**

## 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. For additional product fire,

safety and use information go to [www.gp.com/safetyinfo](http://www.gp.com/safetyinfo) or call 1-800-225-6119.

## FIRE SAFETY CAUTION

Passing a fire test in a controlled laboratory setting and/or certifying or labeling a product as having a one-hour, two-hour, or any other fire resistance or protection rating and, therefore, as acceptable for use in certain fire rated assemblies/systems, does not mean that either a particular assembly/system incorporating the product, or any given piece of the product itself, will necessarily provide one-hour fire resistance, two-hour fire resistance, or any other specified fire resistance or protection in an actual fire. In the event of an actual fire, you should immediately take any and all actions necessary for your safety and the safety of others without regard for any rating of any product or assembly/system.