For complete warranty details, visit www.DensDeck.com. (Limited to 1/2 and 5/8” products only.)

Testing was done in accordance with FM approvals 4470, Appendix C: Small Scale Tests, Membrane Delamination Tests for Roofing Membranes and Substrates Using Tensile Loading.

Consult with membrane manufacturer for actual priming requirements. When using DensDeck Prime Roof Board as a substrate for torch applications, ensure that the product is dry and that the proper torching technique is used. Limit the heat to the DensDeck Prime Roof Board. Maintain a majority of the torch flame directly on the roll.

Conditions beyond the control of Georgia-Pacific, such as weather conditions, dew, leaks, application temperatures and techniques may cause adverse effects with roofing systems.

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

Avoid application of DensDeck Prime Roof Boards 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 light weight 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 the roofing system manufacturer or design authority for specific instructions for applying other products to DensDeck Prime Roof Boards.

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 interior in a minimum amount of time.

Although DensDeck Prime Roof Boards 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, hot asphalt applications can blister; torched modified bitumen may not properly bond; and adhesives for single ply membranes may not dry properly.

Confirm any priming requirements with the membrane manufacturer. When applying solvent-based adhesives or primers, allow sufficient time for the solvent to flash off to avoid damage to roofing components.

DensDeck Prime Roof Boards 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.

When using DensDeck Prime Roof Boards for hot-mopped applications, Georgia-Pacific recommends maximum asphalt application temperatures of 425°F (218°C) to 450°F (232°C). Application temperatures above these recommended temperatures may adversely affect roof system performance. Consult and follow the roofing system manufacturer’s specifications for full mopping applications and temperature requirements.

When using DensDeck Prime Roof Board as a substrate for torch applications, ensure that the product is dry and that the proper torching technique is used. Limit the heat to the DensDeck Prime Roof Board. Maintain a majority of the torch flame directly on the roll.

Conditions beyond the control of Georgia-Pacific, such as weather conditions, dew, leaks, application temperatures and techniques may cause adverse effects with roofing systems.
Moisture accumulation may also significantly decrease wind uplift and vertical pull resistance in the system or assembly. DensDeck® Prime Roof Boards containing excessive free moisture content may need to be evaluated for structural stability to assure wind uplift performance.

**Fire Resistance Classifications**

DensDeck Prime Roof Boards are excellent fire barriers over combustible and noncombustible roof decks, including steel decks.

- **UL 790 Classification.** DensDeck Prime Roof Boards have been classified by Underwriters Laboratories LLC (UL) for use as a fire barrier over combustible and noncombustible decks in accordance with the ANSI/UL 790 and ULC CAN-S114 test standard. The UL classification includes a comprehensive Class A, B or C rating. For additional information concerning the UL 790 classification, consult the UL Certification Directory.

- **UL 1256 Classification.** DensDeck Prime Roof Boards have also been classified by UL in roof deck constructions for internal (under deck) fire exposure in accordance with the ANSI/UL 1256 Steiner Tunnel test. For additional information concerning the UL 1256 classification, consult the UL Certification Directory.

**FM Class 1 Approvals.** DensDeck Prime Roof Boards are included in numerous assemblies evaluated by Factory Mutual (FM) Class 1 fire rating. 1/4" (6.4 mm) DensDeck Prime Roof Boards have passed testing under the FM Calorimeter Standard 4450 and have been approved by FM as such for insulated steel deck roofs when installed according to the conditions identified by FM. For more information concerning FM Approvals and FM Class 1 assemblies with DensDeck Prime Roof Boards, consult FM or RoofNav®.

**Type X** 5/8" (15.9 mm) DensDeck® Prime Fireguard® Roof Boards are manufactured to meet the “Type X” requirements of ASTM C1177 for increased fire resistance beyond regular gypsum board.

**UL Fire Resistance Ratings.** 5/8" (15.9 mm) DensDeck Prime Fireguard Roof Boards are designated as Type DD by UL and included in assembly designs investigated by UL for hourly fire resistance ratings. 5/8" (15.9 mm) DensDeck Prime Fireguard Roof Boards may also replace any unclassified 5/8" (15.9 mm) gypsum board in an assembly in the UL Fire Resistance Directory under the prefix “P.”

**Flame Spread and Smoke Developed.** When tested in accordance with ASTM E84, DensDeck Prime Roof Boards had Flame Spread 0, Smoke Developed 0.

**Wind Uplift**

DensDeck Prime Roof Boards are included in numerous assemblies evaluated by FM or other independent laboratories for wind uplift performance. For information concerning such assemblies, please visit www.roofnav.com.

---

**Physical Properties**

<table>
<thead>
<tr>
<th>Properties</th>
<th>1/4&quot; (6.4 mm)</th>
<th>1/2&quot; (12.7 mm)</th>
<th>5/8&quot; (15.9 mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thickness, nominal</td>
<td>1/4&quot; (6.4 mm) ± 1/16&quot; (1.6 mm)</td>
<td>1/2&quot; (12.7 mm) ± 1/32&quot; (8 mm)</td>
<td>5/8&quot; (15.9 mm) ± 1/32&quot; (8 mm)</td>
</tr>
<tr>
<td>Width, standard</td>
<td>4&quot; (1219 mm) ± 1/8&quot; (3 mm)</td>
<td>4&quot; (1219 mm) ± 1/8&quot; (3 mm)</td>
<td>4&quot; (1219 mm) ± 1/8&quot; (3 mm)</td>
</tr>
<tr>
<td>Length, standard</td>
<td>4' (1219 mm) and 8' (2438 mm) ± 1/4&quot; (6.4 mm)</td>
<td>4' (1219 mm) and 8' (2438 mm) ± 1/4&quot; (6.4 mm)</td>
<td>4' (1219 mm) and 8' (2438 mm) ± 1/4&quot; (6.4 mm)</td>
</tr>
<tr>
<td>Weight, nominal, lbs./sq. ft. (Kg/m²)</td>
<td>1.2 (5.9)</td>
<td>2.0 (9.8)</td>
<td>2.5 (12.2)</td>
</tr>
<tr>
<td>Surfacing</td>
<td>Fiberglass mat with non-asphaltic coating</td>
<td>Fiberglass mat with non-asphaltic coating</td>
<td>Fiberglass mat with non-asphaltic coating</td>
</tr>
<tr>
<td>Flexural Strength, parallel, lbf. min. (N)</td>
<td>≥ 40 (178)</td>
<td>≥ 80 (356)</td>
<td>≥ 100 (444)</td>
</tr>
<tr>
<td>Flute Spanability</td>
<td>2-5/8&quot; (66.7 mm)</td>
<td>5&quot; (127 mm)</td>
<td>8&quot; (203 mm)</td>
</tr>
<tr>
<td>Permeability, perms (mg/Pa•s•m²)</td>
<td>&lt;30 (&lt;1710)</td>
<td>&lt;23 (&lt;1300)</td>
<td>&gt;17 (&lt;970)</td>
</tr>
<tr>
<td>R Value¹, ft²•°F•hr/BTU (m²•K/W)</td>
<td>.28</td>
<td>.56</td>
<td>.67</td>
</tr>
</tbody>
</table>

1. Tested in accordance with ASTM C473 method B.
2. Tested in accordance with ASTM E84.
3. Tested in accordance with ASTM E96 (dry cup method).
4. Tested in accordance with ASTM C518 (heat flow meter).
5. Specified values per ASTM C1177.
6. Tested in accordance with ASTM C473.

---

**TRADEMARKS** DENSDECK, FIREGUARD, EONIC and the GEORGIA-PACIFIC logo are trademarks owned by or licensed to Georgia-Pacific Gypsum LLC. ROOFNAV is a registered mark of FM Global.

**WARRANTIES, REMEDIES AND TERMS OF SALE** For current warranty information for this product, please go to www.gpgypsum.com and select the product for warranty information. All sales of this product by Georgia-Pacific are subject to our Terms of Sale available at www.gpgypsum.com.

**UPDATES AND CURRENT INFORMATION** The information in this document may change without notice. Visit our website at www.gpgypsum.com for updates and current information.

**CAUTION** For product fire, safety and use information, go to www.buildgp.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 fire rating of any product or assembly/system.

---

**Georgia-Pacific Gypsum**

U.S.A.  GP Gypsum LLC
Canada  Georgia-Pacific Canada LP

**SALES INFORMATION AND ORDER PLACEMENT**

U.S.A.  West: 1-800-824-7503
Midwest: 1-800-876-4746
South Central: 1-800-231-6060
Southeast: 1-800-327-2344
Northeast: 1-800-947-4497

CANADA  Canada Toll Free: 1-800-837-6823
Quebec Toll Free: 1-800-361-0486

DENSDECK  1-855-647-3325

**TECHNICAL INFORMATION**


©2020 Georgia-Pacific Gypsum LLC. All rights reserved. 7/20. GP-TM Lit. Item #102169.