



# DensDeck® StormX™ Prime Roof Board

## PRODUCT DESCRIPTION

DensDeck StormX Prime Roof Board is a reinforced gypsum cover board with an enhanced, moisture-resistant core and coated glass mat facers. DensDeck StormX is extremely durable and is approved for use in assemblies meeting FM's Very Severe Hail (VSH) Classification.

Revision Date: February 2021



## TYPICAL PHYSICAL PROPERTIES

Properties	5/8" (15.9 mm)
Thickness, nominal	5/8" (15.9 mm) ± 1/32" (0.8 mm)
Width, Standard	4' (1219 mm) ± 1/8" (3 mm)
Length, Standard	4' (1219 mm) 8' (2438 mm) ± 1/4" (6.4 mm)
Weight, nominal, lbs./sq. ft. (Kg/m <sup>2</sup> ) <sup>7</sup>	3.0 (14.6)
Surfacing	Fiberglass Mat with non- asphaltic coating
Flexural Strength <sup>1</sup> , parallel, lbf. Min. (N)	100 (444)
Flute Spanability <sup>2</sup>	8" (203mm)
Permeance <sup>3</sup> , perms (ng/Pa• S• m <sup>2</sup> )	>17 (>970)
R Value <sup>4</sup> , ft <sup>2</sup> • °F• hr/BTU (m <sup>2</sup> K/W)	0.67
Linear Variation with Change in Temp., in/in °F (mm/mm/°C)	8.5 x 10 <sup>-6</sup> (15.3 x 10 <sup>-6</sup> )
Linear Variation with Change in Moisture	6.25 x 10 <sup>-6</sup>
Water Absorption <sup>5</sup> , %	5
Compressive Strength <sup>6</sup> , psi nominal	900
Surface Water Absorption, rams, nominal <sup>1</sup>	1.0
Mold Resistance <sup>7</sup>	10 (highest possible)
ASTM Standard Compliance	ASTM C1177

- <sup>1</sup> Tested in accordance with ASTM C473 method B.
- <sup>2</sup> Tested in accordance with ASTM E661.
- <sup>3</sup> Tested in accordance with ASTM E96 (dry cup method)
- <sup>4</sup> Tested in accordance with ASTM C518 (heat flow meter).
- <sup>5</sup> Tested in accordance with ASTM C1177.
- <sup>6</sup> Tested in accordance with ASTM C473.
- <sup>7</sup> When tested, as manufactured, in accordance with ASTM D3273, DensDeck Roof Boards have scored a 10, the highest level of performance for mold resistance under the ASTM D3273 test method. The score of 10, in the ASTM D3273 test, indicates no mold growth in a 4-week controlled laboratory test. The mold resistance of any building product when used in actual jobsite conditions may not produce the same results as were achieved in the controlled, laboratory setting.

## BENEFITS AND SUPPLEMENTAL STATEMENTS

- Provides added protection from excessive foot traffic, wind, and hail
- First gypsum cover board to meet FM VSH classification under single-ply membranes
- Approved as a thermal barrier over combustible and non-combustible roof decks
- Achieves UL 790 Class A and FM Class 1 approvals
- Manufactured to meet the "Type X" requirements of ASTM C1177

## PACKAGING

Factory applied packaging is only intended for protection during transit.

5/8" 4'x4' Panels	34 pieces	1632 lbs
5/8" 4'x8' Panels	26 pieces	2496 lbs

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## **STORAGE**

When stored outside or at the job site, the roof board must be stored at least 4" above ground level and completely covered with a weatherproof covering such as a tarpaulin. **Warning - Do Not Leave Exposed:** Product must be kept dry at all times. Install only as much roof board as can be covered the same day by the roofing system.

## **CODE APPROVALS/COMPLIANCE**

DensDeck StormX™ Roof Boards are manufactured to meet ASTM C1177 and meet the following standards and classifications:

- Type X
- ANSI/UL 790 and ULC-CAN S114 Classification – Class A (unlimited slope)
- UL 1256 Classification
- FM Class 1
- When used as part of a UL 1256 or FM 4450 classified system, no additional thermal barrier is required per IBC

## **INSTALLATION INSTRUCTIONS**

DensDeck StormX may be secured with Helix Max Adhesive, fastened in accordance with an approved fastening pattern, or mopped with hot asphalt.

Maximum asphalt application temperatures of 425°F (218°C) to 450°F (232°C) are recommended. Application temperatures above these recommended temperatures may adversely affect roof system performance.

Edge joints should be located on and parallel to deck ribs. End joints of adjacent lengths should be staggered.

1. This material shall be installed with ends and edges butted tightly.
2. When installed over combustible wood decks or insulations, all joints should be staggered.
3. In accordance with approved shop drawings, FM-approved fasteners shall be installed with plates through the roof board, flush with the surface.
4. When attaching F5 Air and Vapor Barrier, use DensDeck StormX in conjunction with CCW-702, 702LV, or AeroWeb Adhesive.

*Review Mule-Hide specifications and details for complete installation information.*

## **PRECAUTIONS**

- When applying solvent-based adhesives or primers, allow sufficient time for the solvents to flash off.
- ¼" DensDeck is not recommended for vertical parapet applications or for asphalt attachment.
- In ballasted roofing systems, StormX is not an acceptable membrane underlayment.

## **PROTECTION & SAFETY**

Mule-Hide maintains Safety Data Sheets on all of its non-exempt products. Safety Data Sheets contain health and safety information for your development of appropriate product handling procedures to protect your employees and customers. Mule-Hide's Safety Data Sheets should be read and understood by all of your supervisory personnel and employees before using Mule-Hide products in your facilities.

## **ADDITIONAL INFORMATION**

The information given on this PDS is subject to change without notice. Always check the Mule-Hide website at [www.mulehide.com](http://www.mulehide.com) for the latest information, changes and updates or contact Mule-Hide Products Company at 800-786-1492.

DensDeck is a registered trademark of Georgia-Pacific Gypsum LLC.

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