

FOUR DIMENSIONS OF PROTECTION FOR COMMERCIAL LOW-SLOPE ROOFS

For more than three decades, Georgia-Pacific has been constantly innovating to meet your ever-changing needs and provide the highest level of protection for your commercial roof assemblies. DensDeck[®] Roof Boards are engineered to provide high performance and lasting durability, shielding your roof from the most common causes of damage including fire, wind, puncture and hail.



FIRE

Non-combustible roof board made with fiberglass mat facers and reinforced gypsum core

- ▶ Non-combustible as described and tested in accordance with ASTM E136¹
- ▶ 0/0 flame spread/smoke development when tested in accordance with ASTM E84, UL723, and CAN/ULC-S102¹
- ▶ FM approved – FM Class 1¹
- ▶ Meets “type X requirements” of ASTM C1177 for increased fire resistance¹
- ▶ UL Classified for resistance to external fire sources [per ANSI/UL 790 and CAN/ULC-S114]¹
- ▶ UL Classified for resistance to fires below roof [per ANSI/UL 1256]¹



WIND

Board strength and mat-to-core bond enhances system uplift resistance

- ▶ In testing, DensDeck[®] Prime Roof Board had greater flexural strength when dry or when exposed to moisture compared to gypsum fiber and alternative coated glass mat gypsum²
- ▶ In testing, DensDeck Prime Roof Board's enhanced mat-to-core bond demonstrated greater overall vertical pull strength compared to gypsum fiber and alternative coated glass mat gypsum²



PUNCTURE

Fully supported membrane protects against static and dynamic puncture

- ▶ When tested, 45 mil thermoplastic membranes with 1/4" DensDeck Prime Roof boards underneath were 150% more puncture resistant than the same assembly without a cover board³
- ▶ When tested, 45 mil thermoplastic membranes with 1/4" DensDeck Prime Roof Boards underneath were 60% more resistant to low-speed impact puncture than thermoplastic membranes without a cover board⁴



HAIL

Strength of gypsum core with fiberglass mat reinforcement resists hail impact

- ▶ DensDeck[®] StormX[™] Prime Roof Board is FM-classified for Very Severe Hail (VSH) in approved single-ply assemblies⁵
- ▶ Holds strong against repeated hail strikes
- ▶ DensDeck[®] Prime Roof Board is included in thousands of FM VSH-approved multi-ply assemblies⁵

DensDeck Roof Boards are included in more FM-approved assemblies than any other roof board.⁵

LEARN MORE AT [DENSDECK.COM](https://www.densdeck.com)

¹ Please consult ASTM E136 and ASTM E84 for information concerning the test methods and measures for combustibility and flame spread. Consult ASTM C1177 concerning requirements for increased fire resistance. For information concerning the UL 790 and UL 1256 classifications for DensDeck[®] Roof Boards, consult the applicable UL certifications directory. For information regarding FM Class approvals, please consult FM or RoofNav, FM's tool for roofing professionals. Please note, however, that the performance of a roof depends on all components used in the roofing assembly and how the components interact. Passing a fire test in a controlled laboratory setting does not mean that a particular product or system will necessarily provide the same resistance or protection in an actual fire.

² Conducted by Trinity ERD 2016 and 2017.

³ Testing conducted by Jim Koontz & Associates in Hobbs, NM, July – August 2014. Testing in accordance with ASTM D5635 standards.

⁴ Low Speed Impact Puncture Testing conducted by Intertek in York, Pennsylvania, on January 15, 2016, in accordance with ASTM D4833 standards. Assemblies tested included 1.5" Polyiso insulation and 45-mil TPO membrane.

⁵ Consult RoofNav for FM-approved and VSH assemblies with DensDeck Prime and DensDeck StormX Prime Roof Boards.