

HEAVY COVERAGE LIGHT FOOTPRINT

EXTRA PROTECTION AGAINST DECADES OF FOOT TRAFFIC

Costly damage from ongoing foot traffic over the duration of the roof's life is easily avoidable with a solid cover board in place.

PROTECTION AT INSTALLATION

Cover boards stiffen and stabilize the roofing system and protect against accidental punctures during construction. A cover board's compressive strength measures its ability to resist the crushing force of impact. Installing a rigid cover board between the membrane and insulation:

- Supports the waterproofing membrane with a smooth adherent surface
- Distributes compressive weight to prevent insulation compression and puncture
- Reinforces the strength of any fasteners attached to the cover board to hold the assembly together

EVEN MORE COMPRESSIVE STRENGTH:

900 psi = DensDeck® Prime Roof Boards¹ / up to 25 psi = Typical Polyiso Board²

REVISITING THE ROOF

Although less easily noticeable than other damage, foot traffic's impact is no less pervasive—or destructive. Workers carrying heavy equipment can compress unprotected insulation and stretch or puncture the membrane. A robust cover board:

- Safeguards against added maintenance and repair work stress
- Maintains sturdy support as workers transport tools and equipment to repair damages and update vulnerable points in the roof system

A LASTING FOUNDATION IN THE SKY

For buildings designed with special rooftop accommodations in mind—such as photovoltaic (solar) paneling, HVAC storage, gardens, or public-use spaces—adding a rigid cover board:

- Boosts the roofing system's durability against the increased weight of cumbersome equipment, permanent installations, and frequent visitors
- Enhances the overall assembly's much-needed compressive and flexural strength to support all these double-duty roofs against years of constant use

AN INDEPENDENT TEST SHOWED DENSDECK® PRIME WAS STILL STRONGER WET

(when a board loses its most overall stability) than its competition was dry⁵

THIRD-PARTY TESTING SHOWED THAT A THERMOPLASTIC MEMBRANE WAS MORE PUNCTURE RESISTANT WITH DENSDECK PRIME UNDERNEATH³

**83%
MORE
PUNCTURE
RESISTANCE**

THAN WITHOUT
COVER BOARD

1/4" DensDeck®
Prime Panels
Underneath

1/2" HD ISO Without
a Cover Board

IN THIRD-PARTY TESTING, 1/4" DENSDECK® PRIME COVER BOARDS DEMONSTRATED 2.5X GREATER FLEXURAL STRENGTH, COMPARED TO COMPETITIVE GYPSUM FIBER BOARDS⁴

**2.5X
STRONGER**

THAN GYPSUM
FIBER BOARDS

* Per ASTM C473 test methodology

WHEN THIRD-PARTY TESTING COMPARED DENSDECK® PRIME AGAINST OTHER BOARDS, IT PROVED CONSISTENTLY STRONGER THAN THE COMPETITION⁵

DRY



57% LESS
52% LESS

WET (AFTER 2 HOUR SOAK)



87% LESS
267% LESS

■ DensDeck® Prime Roof Boards
■ Alternative Coated Glass Mat Gypsum
■ Gypsum Fiber

* Standard third-party soak tests for durability and strength retention in both wet and dry conditions

1. https://cache5.buildgop.com/wp-content/uploads/2019/01/DensDeck_Prime_Submittal.pdf

2. <http://rci-online.org/wp-content/uploads/2001-06-pima.pdf>

3. Third-party testing of 1/4" DensDeck cover boards conducted by Jim Koontz & Associates in July and August 2014, in Hobbs, N.M., in accordance to ASTM D5635 standards https://www.youtube.com/watch?v=_LipYSLb80

4. Third-party testing of 1/4" DensDeck cover boards conducted by PRI, Construction Materials Technologies in 2013 in accordance to ASTM C473 <https://www.prnewswire.com/news-releases/densdeck-prime-roof-board-demonstrates-in-third-party-testing-greater-flexural-strength-and-pull-through-resistance-225185592.html>

5. Third-party testing of 1/2" boards conducted by Trinity ERD in Columbia, South Carolina in October 2016 and December 2017. Testing conducted in accordance to ASTM C473 to meet ASTM C1177.

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DensDeck®
Prime Roof Board
with **EONIC™**
TECHNOLOGY