

# Primed 2 Sides High-Density Wood Fiber Cover board



## Description:

Manufactured by Blue Ridge Fiberboard®, STRUCTODEK® HD is a high-density fiberboard surfaced with an integrated primed red coating. This non-asphaltic material offers excellent adhesion capabilities to optimize bonding with roofing adhesives and membranes in low-slope roof systems. Its rigid, strong, lightweight construction performs as well as heavier materials while keeping roof loads below specified maximums.

## Features/Benefits:

- FM Approved — consult ROOFNav.com for specific assemblies
- Classified by UL. Refer to UL Product iQ for specific assemblies
- Non-asphaltic coating — may contribute to LEED® credits.
- Hail resistant\*, structurally rigid, and easily handles heavy foot traffic and wheeled loads.
- Possesses SOUNDSTOP® sound-deadening technology.
- Contributes to thermal insulation with R-values of 1.3 per ½" (12.7 mm).
- Lightweight, fiberglass free, and cuts with a standard utility knife.
- Compressive strength exceeds the Canadian standard at 10% deformation for ½" (12.7 mm) thickness.
- Waxes and other moisture-resistant components are added early in the manufacturing process providing superior core and edge protection. The integral moisture-resistant components protect the edges in stock panel size (4' x 4' [1.22 m x 1.22 m] or 4' x 8' [1.22 m x 2.44 m]) and, more importantly, also protect the edges when the product is cut on the jobsite.

## Applications:

- STRUCTODEK® HD functions as insulation and cover board in re-roof and re-cover projects.
- Compatible with all single-ply membranes, including GAF EverGuard® PVC and TPO, EPDM, and CSPE.
- Compatible with GAF low-rise foam and EverGuard® Quick Spray adhesives with optimal adhesive coverage per square foot.
- Works well with asphaltic BUR systems, coal tar, cold-process adhesive products, and self-adhering products.
- Recommended applications: Single-Ply: Fully Adhered, Mechanically Attached, Ballasted; Modified Bitumen: Cold, Mopped, BUR: Ply Sheets, Hybrid, Self Adhered, Spray Foam
- Fastening Patterns: will vary based upon membrane manufacturers' assemblies, refer to GAF design services department for more info 1-800-766-3411 or designservices@gaf.com

## Panel Characteristics:

- Available in 1/2" and 1" thickness,
- Available in 4' x 4' (1.22 m x 1.22 m) and 4' x 8' (1.22 m x 2.44 m) panel sizes

## Codes and Compliance:

- ASTM C208 Type II, Grade 1 and Grade 2
- Federal Specification LLL-I-535 Superseded by ASTM C208
- UL Classified, Std UL 790
- FM Approved Class 1 — FM Approval Standard 4450/4470
- Florida Building Code approval number FL #13792.1
- DORA Listed RCM ID #689
- Miami-Dade County Product Control Approved
- MasterSpec 07 22 16 — Roof Board Insulation



## Sustainability:

- This product has no added formaldehyde and uses a biobased binder
- Does not contain Living Building Challenge Red List Chemicals
- LEED Contribution (may contribute to):
  - MR Credit Building Product Disclosures, EPD
  - MR Credit Recycled, 75% pre-consumer wood
  - MR Credit Material Ingredients, HPD
  - MR Credit: Rapidly Renewable Content
  - MR Credit Construction and Demolition Waste Management
  - MR Credit Regional Materials, IN: Innovation
  - EQ Credit: Low Emitting Materials Composite Wood, EW Credit Wood



**STRUCTODEK®**  
**GAF HD Fiberboard**  
 Roof Cover Board



PHYSICAL PROPERTY	1/2" THICKNESS VALUES	1" THICKNESS VALUES
Weight, lbs/ft <sup>2</sup> (kg/m <sup>2</sup> )	0.7 (3.42)	1.4 (6.84)
Transverse Strength, min., lbf (N)	12-14 (53-62)	24 (107)
Tensile Strength Parallel, min., lbf/in <sup>2</sup> (kPa)	150 (1034)	150 (1034)
Tensile Strength Perpendicular, min., lbf/ft <sup>2</sup> (kPa)	600 (28.7)	600 (28.7)
Water Absorption by volume, max., %	7	7
Moisture Content by weight, max., %	10	10
Linear Expansion 50-90% RH, max., %	0.5	0.5
Modulus of Rupture, min., lbf/in <sup>2</sup> (kPa)	275 (1896)	140 (965)
Deflection at Specified in. Load, max. in. (mm)	0.75 (19)	0.42 (11)
Flute Spanability, max. width, in. (mm)	1 5/8 (41.3)	2 5/8 (66.7)
Compressive Strength, min., lbf/in <sup>2</sup> (kPa)	15 (103)	15 (103)
R-Value, ft <sup>2</sup> ·h·° F/BTU in (K·m <sup>2</sup> /W)	1.3 (0.23)	2.5 (0.44)

Packaging		
4' x 4' panels	90 pieces per unit 1440 sq feet per unit	45 pieces per unit 720 sq feet per unit
4' x 8' panels	90 pieces per unit 2880 sq ft per unit	45 pieces per unit 1440 sq feet per unit

Limited Warranty: BLUE RIDGE FIBERBOARD, INC. warrants at the time and place we make shipment, our material will be of good quality and will confirm with our published specifications in force on the date of acceptance of the order. Read complete warranty. Copy furnished upon request.

Disclaimer: The information contained herein is included for illustrative purpose only, and to the best of our knowledge, is accurate and reliable. BLUE RIDGE FIBERBOARD, INC. cannot however under any circumstance make any guarantee of results or assume any obligation or liability in connection with the use of this information. As BLUE RIDGE FIBERBOARD, INC. has no control over the use to which others may put its product, it is recommended that the products be tested to determine if suitable for specific application and/or our information is valid in a particular circumstance. Responsibility remains with the architect or engineer, contractor, and owner for the design, application, and proper installation of each product. Specifier and user shall determine the suitability of products for specific application and assume all responsibilities in connection therewith.

STRUCTODEK® is a trademark of BLUE RIDGE FIBERBOARD, INC., and is used under license.

\* GAF warranties and guarantees do not provide coverage against hail, or traffic except where additional puncture resistance coverage is purchased or GAF walkways are applied. Refer to gaf.com for more information on warranty and guarantee coverage and restrictions.

## Warnings and Limitations:

- Do not expose to open flame or excessive heat. May smolder if ignited. If ignited, extinguish completely. Do not apply flame directly to material when installing a modified bitumen system.
- Material must be kept dry at all times, in storage and during application.
- Apply only as much STRUCTODEK® High Density with Primed Red Coating in one day as can be covered by completed roofing system that day.
- Do not use as an underlayment for shingles. In reroofing applications, all wet areas in old roof should be cut out and replaced. Before material is installed, remove all loose and protruding gravel.
- Must not be used in close proximity to chimneys, heater units, fireplaces, steam pipes, or other surfaces that could provide long-term exposure to excessive heat (maximum 212° F [100° C]) without adequate thermal protection. Consult appropriate heating appliance manufacturer's instructions before installation.

## Manufactured by:



Visit [gaf.com](http://gaf.com)

For additional information, contact GAF Technical Support at 1-800-766-3411 or [technicalquestions@gaf.com](mailto:technicalquestions@gaf.com)

We protect what matters most™

