SEPTEMBER 2024 #002-A

BLUE RIDGE FIBERBOARD®

STRUCTODEK® HIGH DENSITY

FIBERBOARD ROOF INSULATION COVER BOARD WITH PRIMED RED COATING

DESCRIPTION

The proprietary, patented, non-asphaltic Primed Red Coating integrated on the surface of STRUCTODEK HD possesses unique bonding characteristics that ultimately result in superior adhesion capabilities with the current membrane & adhesive technology on the market today. The nonasphaltic Primed Red Coating is compatible with all single-ply membranes including PVC, TPO, EPDM, and CSPE without concern of premature membrane degradation that is often associated with asphalt emulsion coated fiberboard products. Additionally, the Primed Red Coating, unlike asphalt emulsion coated products, has proven to be compatible with traditional, low VOC and water-based adhesives as well as many foam adhesives. The Primed Red Coating allows adhesives & foams to "key" into the STRUCTODEK HD surface while at the same time deterring excessive adhesive absorption. The unique Primed Red Coating allows for a solid membrane bond while still providing optimal square foot per gallon of adhesive coverage thus insuring a quality & cost effective membrane installation.

While STRUCTODEK HD WITH PRIMED RED COATING was designed with the single-ply application in mind, it is compatible with traditional roofing applications such as BUR and cold-applied systems as well. Additionally, STRUCTODEK HD WITH PRIMED RED COATING has also been successful in peel-and-stick applications without the typical need for an additional primer in many instances. The rigid and strong, yet lightweight nature of STRUCTODEK HD WITH PRIMED RED COATING is better than heavier alternatives and will keep the roof load below the specified maximum weight. STRUCTODEK HD WITH PRIMED RED COATING is offered coated on two sides and available in 4'x4' and 4'x8' panels.

USES

STRUCTODEK HD WITH PRIMED RED COATING can be used as an insulation board, cover board, or re-roof/recover board. The product is a high-density roofing board designed for lowslope single-ply, as well as traditional roof system applications.

COMPLIANCES

- ASTM C208, Type II, Grade 1 and Grade 2
- Federal Specification LLL-I-535 Superseded by ASTM C208
- CAN/ULC-S706-09 Type II, Classes 1 and 2
- UL Classified, Std UL 790
- ULC Classified, Std CAN/ULC-S107
- FM Approved Class 1 - FM Approved Standard 4450/4470
- DORA Listed RCM ID #689
- Canadian Evaluation CCMC #13186-L
- Florida Building Code Product Approval FL # 13792.1
- Miami-Dade County, Florida, NOA No. 23-0623.03, Expiration Date 09/18/28

FEATURES/BENEFITS

- Compatible with PVC, TPO, EPDM, CSPE single-ply membranes as well as more traditional systems.
- Compatible with most low VOC, water-based and traditional adhesives.
- Superior adhesion without excess adhesive absorption.
- Compatible with most direct peel-and-stick applications.
- BUR compatible - easily handles hot asphalt.
- Approved in thousands of FM RoofNav® & UL Class A and Class 1 rated roof system assemblies.
- Green, non-asphaltic coating – contributes to LEED credits.
- Hail resistant, structurally rigid, 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".
- Lightweight, fiberglass free, cuts with a standard utility knife.
- Compressive strength of 25 psi @ 10% deformation and 62 psi @ 20% deformation.
- Coated 2 sides Primed Red provides optimal surface bonding characteristics ideal for use in single and multi-ply roof systems.
- Waxes & 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'x4' or 4'x8') and, more importantly, also protects the edges when the product is cut on the jobsite.
- Cost effective solution - a value engineered champion.

PRECAUTIONS

Do not expose to open flame or excessive heat. May smoulder 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 HD 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 re-roofing applications, all wet areas in old roof should be cut out and replaced. Before material is installed, remove all loose and protruding gravel. STRUCTODEK HD WITH PRIMED RED COATING must not be used in close proximity to chimneys, heater units, fireplaces, steam pipes, or other surfaces which could provide longterm exposure to excessive heat (over 212° F) without adequate thermal protection. Consult appropriate heating appliance manufacturer's instructions before installation.

Fastening Patterns: Fastening patterns will vary based upon specific membrane manufacturers' assemblies. Please refer to membrane manufacturer fastening requirements.

Physical Properties	1/2" Thickness Value	1" Thickness Value
Transverse Strength, Lbf	12 - 14	24
Weight, lb/ft^2 (nominal)	0.7	1.375
Tensile Strength Parallel, min, lbf/in^2	150	150
Tensile Strength Perpendicular, min, lbf/ft^2	600	600
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^2	275	140
Deflection at Specified Min. Load, max, in.	0.75	0.42
Flute Spanability, max width, in.	1-5/8	2-5/8
Compressive Strength, min, lbf/in^2	15	15
R-Value, ft^2·h·ºF/BTU in	1.3	2.5

MASTERFORMAT NUMBER AND TITLE
07 22 16 - Roof Board Insulation

For sustainability information, please visit https://www.blueridgefiberboard.com/green-building

USDA CERTIFIED BIOBASED PRODUCT
PRODUCT 100%

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

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