



# STRUCTODEK®

## HIGH DENSITY ROOFING FIBERBOARD



### STRUCTODEK

STRUCTODEK is available in various thicknesses, coating, and panel sizes to meet your needs. The product offers many benefits, including:

- The most compatible fiberboard in the industry. Can be installed directly to TPO, PVC, EPDM as well as traditional BUR systems successfully since 1985 due to proprietary non-asphaltic coating.
- FM Approved and UL Classified in thousands of Class 1 and Class A fire rated roof assemblies.
- Structurally rigid and dimensionally stable board, easily handles heavy foot traffic and wheeled loads.
- Superior adhesion without excess absorption.
- Insulation properties with R-values ranging from 1.3 to 5.0
- Lightweight and easy to install, without the irritating fiberglass dust of glass mat faced gypsum board.
- Easily handles hot asphalt; non-blistering.
- Cuts with a utility knife.
- Offered in coated one-side (C1S), integral coated six sides (C6S), and uncoated (natural).

### PRODUCT OVERVIEW

For more than 88 years, the name CELOTEX has been a standard bearer for quality fiberboard roof insulation. CELOTEX STRUCTODEK is now manufactured by BLUE RIDGE FIBERBOARD, INC., a subsidiary of W. R. MEADOWS. Be assured that BLUE RIDGE will continue the longstanding CELOTEX tradition of delivering a quality product and providing superior service to the low-slope roofing market at a competitive price. STRUCTODEK high density roofing fiberboard has been tested and approved by major systems manufacturers who create today's roofing systems.

## STRUCTODEK

THE SOLUTION FOR A WIDE VARIETY OF LOW-SLOPE APPLICATIONS AND SYSTEMS.

### Applications

- Insulation board
- Cover board
- Re-roof/re-cover board

### STRUCTODEK FEATURES

- Water absorption value of 7% max per ASTM C 208
- UL Class A roofing systems classified component. See [www.ul.com](http://www.ul.com) Certification Directory File No.TGFU.R20803.
- 1-60 and 1-90 systems approval per FM Approvals Standard 4450/4470 (see RoofNav for approvals)
- Reduces asphalt bitumen absorption in coated one-side product
- Maximum protection on all exposed surfaces with an integral coated-six-side treatment
- High compressive strength: 22 psi @ 10% deformation, 45 psi @ 20% deformation

Thickness (nominal)	1/2"	1"	1 1/2"	2"
Board Sizes	4' x 4' 4' x 8'	2' x 4' 4' x 4' 4' x 8'	2' x 4' 4' x 4'	2' x 4' 4' x 4'
Boards/Unit	4' x 4' = 90 4' x 8' = 90	2' x 4' = 90 4' x 4' = 45 4' x 8' = 45	2' x 4' = 60 4' x 4' = 30	2' x 4' = 46 4' x 4' = 23
Squares/Unit	4' x 4' = 14.40 4' x 8' = 28.80	2' x 4' = 7.20 4' x 4' = 7.20 4' x 8' = 14.40	2' x 4' = 4.80 4' x 4' = 4.80	2' x 4' = 3.68 4' x 4' = 3.68
Weight Per Square Foot (lb/ft <sup>2</sup> )	0.700	1.375	2.100	2.750
Flute Span	1 5/8" (40mm)	2 5/8" (67mm)	4 3/8" (111mm)	4 3/8" (111mm)
R-Value	1.3	2.5	3.8	5.0

### COMPLIANCES

- ASTM C 208, Type II, Grade 1 and 2; ASTM C 209
- FM Approved Class 1 per FM Standard 4450/4470
- CAN/CSA-A247-M86 Insulating Fiberboard Type 1
- Canadian Construction Materials Centre, Listing CCMC #13186-L
- Classified by Underwriters Laboratories, Inc. to US Standard ANSI/UL 790 and Canadian Standard CAN/ULC-S107
- Miami-Dade County, Florida; NOA No. 18-0523.03; Expiration Date 09/18/23
- CAN/ULC-S706 -09 Standard for Wood Fibre Insulating Boards for Buildings, Type II, Class 1 and Class 2





## **STRUCTODEK AND LEED**

STRUCTODEK is an environmentally friendly product that can help a design team earn LEED credits. The use of STRUCTODEK may contribute to the following LEED credits:

- MR Credit: Construction Waste Management
- MR Credit: Recycled Content
- MR Credit: Regional Materials
- MR Credit: Rapidly Renewable Materials
- EQ: Low-Emitting Materials – Composite Wood and Agrifiber Products


## **FASTENING PATTERN REQUIREMENTS**

For fastening patterns, refer to FM RoofNav and/or membrane manufacturer for specific assembly requirements.

## **UL “P” ASSEMBLY REQUIREMENTS**

UL classified STRUCTODEK HD fiberboard roof insulation can be used in any P design as part of a Class A, B or C as specified in the design.

## **SYSTEMS MANUFACTURERS APPROVAL**



**Additional joint listings from these manufacturers can be found in the current versions of the UL Roofing Materials and Systems Directory and FM Approvals/RoofNav.**

Bitec™	IB Roof Systems™
Bondcote Corp.®	Johns Manville
Burkline Roofing Systems®	Lexcan Industrial Supply Ltd
Carlisle® Syntec	Malarkey Roofing Products®
CertainTeed	Mule-Hide Products
Conklin® Company	Polyglass® USA
Cooley Inc.	Sika-Sarnafil®
Derbigum®	Seaman Corp
Ecology Roof Systems®	Siplast®
ER Systems®	Soprema®
Firestone Building Products	Tamko Building Products®
Flex™ Membrane International	The Garland Company®
GAF® Materials Corp	Tremco Inc.®
GenFlex® Roofing Systems	US Ply
Henry Company®	Versico Inc.
Hyload Inc.	



\*Check with specific membrane manufacturer for system warranty approval and required fastening pattern.



## ROOFING SYSTEMS APPLICATIONS RECOMMENDATIONS

Single-Ply, Mechanically Attached

Modified Bitumen Cold

BUR Hybrid

Single-Ply, Fully Adhered

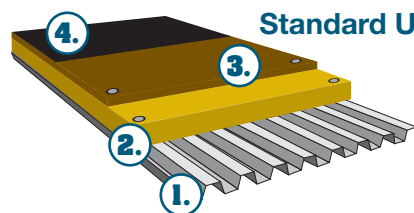
Modified Bitumen Mopped

Self-Adhered

Single-Ply, Ballasted

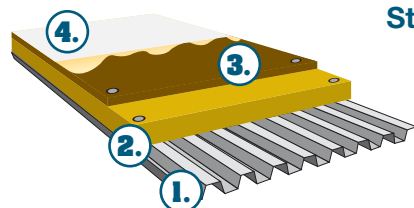
BUR Ply Sheets

Spray Foam (SPUR)



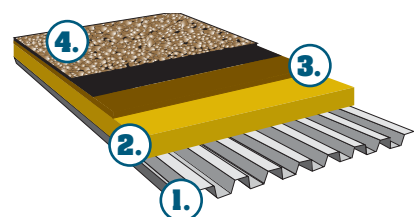
### Standard UL Class A/FM 1-90 Mechanically Attached Single-Ply System

1. Metal deck
2. 1 1/2" rigid foam insulation
3. 1/2" STRUCTODEK HD fiberboard roof board
4. Mechanically attached EPDM, TPO, PVC, CSPE single-ply membrane



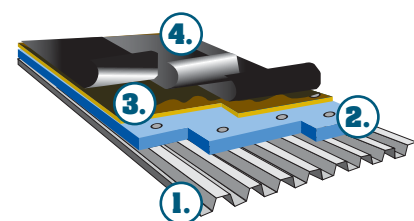
### Standard UL Class A/FM 1-90 Fully Adhered Single-Ply System

1. Metal deck
2. 1 1/2" rigid foam insulation
3. 1/2" STRUCTODEK HD fiberboard roof board
4. Fully adhered EPDM, TPO, PVC, CSPE single-ply membrane (solvent and water-based adhesive)



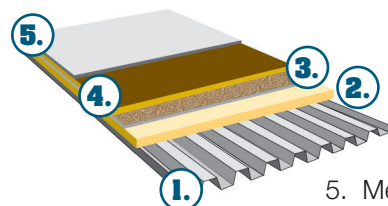
### Standard UL Class A/FM 1-90 Single-Ply Ballasted System

1. Metal deck
2. 1 1/2" rigid foam insulation
3. 1/2" STRUCTODEK HD fiberboard roof board
4. Ballasted EPDM, TPO, PVC, CSPE



### Standard UL Class A/FM 1-90 Modified Bitumen System Cold/Hot Mopped

1. Metal deck
2. 1 1/2" rigid foam insulation
3. 1/2" STRUCTODEK HD fiberboard roof board
4. SBS, APP cold or hot mopped



### Standard UL Class A/FM 1-90 Re-roof, Single-Ply

1. Metal deck
2. Existing insulation
3. Existing roofing assembly
4. 1/2" STRUCTODEK HD fiberboard roof board
5. Mechanically attached, fully adhered, or ballasted single-ply roofing membrane

**\*Contact Manufacturer for Technical Information / Warnings / Warranty Information**

For further information on STRUCTODEK HD, including data sheet, installation procedures, guide specs, and SDS, visit [www.blueridgefiberboard.com](http://www.blueridgefiberboard.com).

CUSTOMER SERVICE EASTERN REGION AND CANADA 800-233-8721

CUSTOMER SERVICE WESTERN AND SOUTHWESTERN REGION 800-535-4088

TECHNICAL SUPPORT 800-596-9699

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