



**CELOTEX™**  
**STRUCTODEK®**  
 HIGH DENSITY ROOFING FIBERBOARD



## **PRODUCT OVERVIEW**

For more than 85 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 is available in various thicknesses, coating, and panel sizes to meet your needs. The product offers many benefits, including:

- Classified in UL Class A rated roof systems. See classification details in "Compliances" section.
- 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 an utility knife.

# 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  $\leq 7\%$  (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
- Compressive Strength, 48 psi @ 15% deformation on 1/2" STRUCTODEK High Density

Thickness (nominal)	1/2"	25/32"	1"	1 1/2"	2"
Board Sizes	4' x 4' 4' x 8'	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	4' x 4' = 60 4' x 8' = 60	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	4' x 4' = 9.60 4' x 8' = 19.20	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	1.060	1.375	2.100	2.750
Flute Span	1 5/8" (40mm)	2 5/8" (67mm)	2 5/8" (67mm)	4 3/8" (111mm)	4 3/8" (111mm)
R-Value	1.3	1.9	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. 10-0120.04; Expiration Date 09/18/13
- 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 2: Construction Waste Management
- MR Credit 4: Recycled Content
- MR Credit 5: Regional Materials
- MR Credit 6: Rapidly Renewable Materials
- IEQ 4.4: 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**

Consult UL certification File No. TGFU.R20803 or system manufacturer for more information about specific systems.

## **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.**

AFM Corp.	Garland Co. Inc.	Sarnafil Inc.
Atlas Roofing Corp.	GenFlex Roofing Systems	Seaman Corp. Building Systems
Bitec Inc.	Haartz-Mason Inc.	Siplast Inc.
Bondcote Corp.	Henry Co.	Soprema Inc.
Burkeline Roofing Systems	Hydro Stop Inc.	SPI Inc.
Carlisle SynTec Inc.	Hyload Inc.	Stafast Roofing Products
Centimark Corp.	IB Roof Systems	Stevens Roofing Systems
Conklin Co. Inc.	Imperial Adhesives	Stymo Chem Int. Inc.
Cooley Roofing Systems	Intec/Permaglas	Tamko Roofing
Duro-Last Roofing Inc.	Johns Manville	The Garland Co.
Ecology Roof Systems	Lexcan Industrial Supply Ltd.	Tremco Inc.
Environmental Roofing Systems	Liquid Plastic	Tri Ply
ER Systems	Malarkey Roofing Co.	US Intec Inc.
Firestone Building Products Co.	Mule-Hide Products	US Ply
Flex Membrane International	Performance Roof Systems	Versico Inc.
Flexible Products	Polyethane Systems Inc.	WP Hickman Systems Inc.
GAF Materials Corp.	Polyglass USA	

\*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

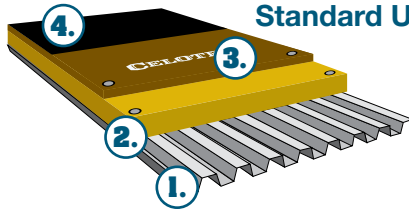
Modified Bitumen Mopped

Self-Adhered

Single-Ply, Ballasted

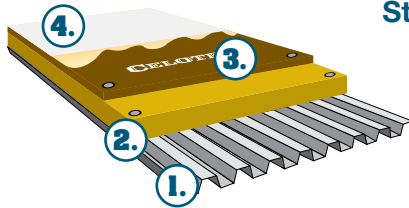
BUR Ply Sheets

Spray Foam (SPUR)



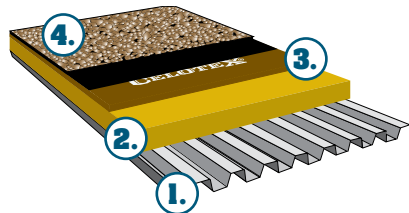
### Standard UL Class A/FM 1-90 Mechanically Attached Single-Ply System

1. Metal deck
2. 1 ½" rigid foam insulation
3. ½" STRUCTODEK HD fiberboard roof board
4. Mechanically attached EPDM, TPO, PVC, CSPE single-ply membrane



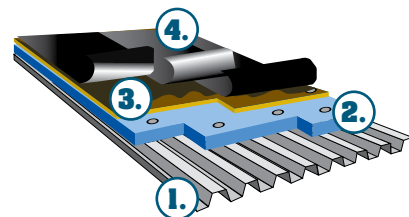
### Standard UL Class A/FM 1-90 Fully Adhered Single-Ply System

1. Metal deck
2. 1 ½" rigid foam insulation
3. ½" STRUCTODEK HD fiberboard roof board
4. Fully adhered EPDM, TPO, PVC, CSPE single-ply membrane (solvent and water-based adhesive)



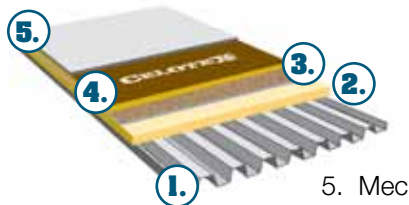
### Standard UL Class A/FM 1-90 Single-Ply Ballasted System

1. Metal deck
2. 1 ½" rigid foam insulation
3. ½" 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 ½" rigid foam insulation
3. ½" 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. ½" 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, including guide specs, LEED information, and MSDS, visit [www.blueridgefiberboard.com](http://www.blueridgefiberboard.com).  
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 866-850-8834

