



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 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 ²)	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
Burkeline 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

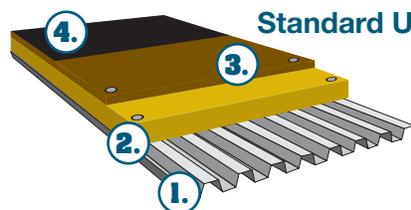
Modified Bitumen Mopped

Self-Adhered

Single-Ply, Ballasted

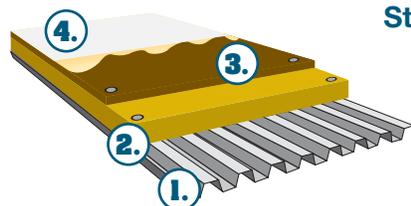
BUR Ply Sheets

Spray Foam (SPUR)



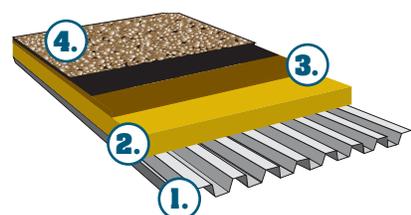
Standard UL Class A/FM 1-90 Mechanically Attached Single-Ply System

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



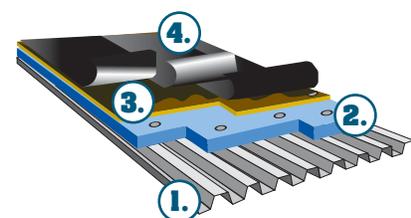
Standard UL Class A/FM 1-90 Fully Adhered Single-Ply System

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)



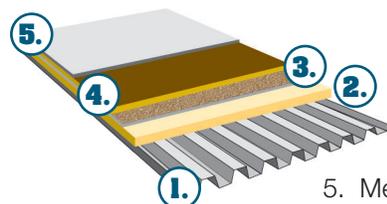
Standard UL Class A/FM 1-90 Single-Ply Ballasted System

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.

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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