

IAR Library: 07.22.16  
Roof Board Insulation  
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2019

<b>PRODUCT INFORMATION</b>	<b>TYPE OF PRODUCT</b>	STRUCTODEK High Density Fiberboard Roof Insulation
	<b>COMPANY NAME</b>	Blue Ridge Fiberboard
	<b>PRODUCT/COLLECTION NAME</b>	STRUCTODEK HD - Traditional Black Coating STRUCTODEK HD - With Primed Red Coating STRUCTODEK - Traditional Black Coating Integral Coated Six Sides
	<b>DESCRIPTION</b>	<p>STRUCTODEK HD (high density) is not only an integral roofing system component; it also makes roofing easier with physical properties that generate structural rigidity and dimensional stability.</p> <p>The wood fiber composition of STRUCTODEK HD possesses natural bonding qualities, resulting in superior adhesion capabilities. Adhesive tightly grasps the fibers of STRUCTODEK HD without causing excess absorption, providing a solid and secure roof system which bonds very well with many asphalt, coal tar, and cold-process adhesive products. The lightweight nature of STRUCTODEK HD is better than heavier alternatives and will keep the roof load below the specified maximum weight.</p> <p>STRUCTODEK HD can be used as an insulation board, cover board, or re-roof/recover board. STRUCTODEK HD is a high-density roofing board and is designed for low-slope applications and systems.</p>
<b>MATERIAL FEEDSTOCK</b>	<b>MATERIAL CONTENT</b>	Wood chips
	<b>RECYCLED CONTENT %</b>	Pre-consumer wood chips
	<b>RAPIDLY RENEWABLE CONTENT %</b>	Raw materials are readily available.
	<b>HARMFUL ADDITIVES</b>	None
	<b>HARMFUL EMISSIONS</b>	Product is classified as non-hazardous per OSHA 1910.1200. Wood Fiberboard is defined by OSHA as an "article." A manufactured item that is formed to a specific shape or design during manufacture that does not release or result in exposure to a hazardous chemical under normal use conditions.
	<b>EMISSION STRENGTH OVER TIME</b>	None
	<b>TREATMENTS</b>	None
<b>MANUFACTURING</b>	<b>MANUFACTURING PROCESS</b>	The manufacturing plant works to reduce consumption and waste. The product is classified as a non-hazardous waste.
	<b>HARMFUL EMISSIONS</b>	None
	<b>LOCATION OF MANUF. PLANT</b>	250 Celotex Way Danville, Virginia 24541
	<b>TESTS/CODES</b>	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 CAN/ULC-S706-09 Standard for Wood Fibre Insulation Boards for Buildings, Type II, Class 1 and Class 2
	<b>3<sup>RD</sup> PARTY CERTIFICATION</b>	FM Approved, Classified UL, US Green Building Council, Green Line
<b>INSTALLATION</b>	<b>INSTALLATION PROCEDURE</b>	<p>Do not expose to open flame or excessive heat. May smolder if ignited. If ignited, extinguish completely.</p> <ul style="list-style-type: none"> <li>Do not apply flame directly to STRUCTODEK HD when installing a modified bitumen system.</li> <li>STRUCTODEK HD must not be used in close proximity to chimneys, heater units, fireplaces, steam pipes, or other surfaces which could provide long-term exposure to excessive heat (above 212° F) without adequate thermal protection. Consult appropriate heating appliance manufacturer's instructions before installation.</li> </ul>

		<ul style="list-style-type: none"> <li>• Do not use as an underlayment for shingles.</li> <li>• Stagger joints among insulation layers and within layers.</li> <li>• Fastening patterns and densities will vary based upon specific membrane manufacturer assemblies. Refer to membrane manufacturer for fastening requirements.</li> <li>• Moisture conditions may affect the performance of the product and the installation of the roof system.</li> <li>• STRUCTODEK HD must be kept dry at all times; in storage and during application. Store at a location where humidity and temperature duplicates those during installation.</li> <li>• Deck and substrates must be dry at the start of application and maintained in a dry condition throughout installation.</li> <li>• Avoid application during rain, heavy fog, dew and any other conditions that may deposit moisture on surfaces.</li> <li>• Conduct a moisture survey on recovers and tears to ensure the roof deck is dry.</li> <li>• Before applying STRUCTODEK HD, existing roof surfaces must be cleared of all gravel, dirt and debris which could hold moisture or present surface irregularities. All wet areas in old roof should be cut out and replaced.</li> <li>• Apply only as much STRUCTODEK HD in one day as can be covered by completed roofing system that day.</li> <li>• Refer to the appropriate membrane manufacturer specifications; and appropriate NRCA Manual, Guidelines and Technical Bulletins for accepted installation practices and applications.</li> <li>• BLUE RIDGE FIBERBOARD will not be responsible for deficiencies in design, construction, or workmanship, and for product moisture exposure before, during or after installation; including construction generated moisture.</li> </ul>
	<b>INSTALLATION ADHESIVES</b>	None
	<b>UNIT COST</b>	Varies
	<b>LIFE CYCLE ANALYSIS EXTRACTION</b>	Insulation helps reduce thermal energy costs.
	<b>END OF SERVICE LIFE</b>	Product is classified as a non-hazardous waste.
<b>MISC. PROPERTIES</b>	<b>QUALITIES/PROPERTIES OF PRODUCT</b>	<ul style="list-style-type: none"> <li>• Natural (uncoated), coated one side, or integral coated six sides</li> <li>• Proprietary coating is compatible with all single-ply membranes (TPO, PVC, EPDM) and traditional multiply membrane assemblies</li> <li>• Contributes to thermal insulation, 1.3 R-Value for ½" thick STRUCTODEK HD</li> <li>• UL and ULC Classified in Class A rated roof systems. See complete marking on product</li> <li>• FM Approved in Class 1 roof assemblies. See <a href="http://www.roofnav.com">www.roofnav.com</a> for FM Approvals</li> <li>• High compressive strength, 45 psi @ 20% deformation and 22 psi @ 10% deformation</li> <li>• Superior adhesion without excess absorption</li> <li>• Easily handles hot asphalt</li> <li>• Cuts with a standard utility knife</li> <li>• Lightweight and easy to install, without the irritating fiberglass dust of glass-mat faced gypsum board</li> <li>• Flame Spread Index 70, Class B, Smoke Developed Index 50, per ASTM E84</li> </ul>
	<b>MISC. COMMENTS</b>	Water absorption value of 7% max per ASTM C 208
	<b>CONTRIBUTION TO LEED POINTS</b>	<ul style="list-style-type: none"> <li>• ASTM C 208, Type II, Grade 1 and Grade 2 Roof Insulation Board for Built-up and Single-Ply roofing Systems</li> <li>• ASTM C 209, Test Methods</li> <li>• FM Approved as a component in Class 1 roof assemblies per FM Standards 4450/4470</li> <li>• UL Classified to US Standard ANSI/UL 790 as a component in Class A rated roof systems, reference TGFU.R20803</li> <li>• ULC Classified to Canadian Standard CAN/ULC-S107 as a component in Class A rated roof systems, reference TGFU7.R20803</li> <li>• CAN/ULC-S706-09, Type II, Class 1 and Class 2 Roof Boards for Built-up and Single-Ply roofing Systems</li> <li>• Canadian Construction Materials Centre, Listing CCMC 13186-L</li> </ul>

		<ul style="list-style-type: none"> <li>• Miami-Dade County, Florida, NOA No. 18-0523.03, Expiration Date: 09/18/23</li> <li>• Florida Building Commission Product Approval FL# 13792</li> </ul>
<b><u>COMPANY PROFILE</u></b>	<b>GREEN PHILOSOPHY</b>	<p>BLUE RIDGE FIBERBOARD's manufacturing process is specially designed to be environmentally friendly and accomodating, minimizing post-industrial waste by actively recycling waste materials back in to the process.</p> <p>A quality product should offer superior results without sacrificing the environment. BLUE RIDGE FIBERBOARD remembers its earth-friendly promise to keep quality high and environmental impact low.</p> <p>BLUE RIDGE FIBERBOARD: The environmentally responsible choice.</p>
	<b>CONTACT</b>	<p><a href="http://www.blueridgefiberboard.com">www.blueridgefiberboard.com</a></p> <p>Phone: 1-434-797-1321</p>
<b><u>MAINTENANCE</u></b>	<b>AFTER INSTALLATION</b>	None