

# **Technical Product Information**



ROOF & DECK INSULATION 07220\*

MINERAL BOARD INSULATION 07 21 13\*\*

ROOF INSULATION 07 22 00\*\*

#### General Product Information:

ROXUL<sup>®</sup> products are mineral wool fiber insulations made from basalt rock and slag. This combination results in a noncombustible product with a melting point of approximately 2150°F (1177°C), which gives it excellent fire resistance properties. ROXUL mineral wool is a water repellent yet vapor permeable material.

## Description & Common Applications:

ROXUL MONOBOARD<sup>®</sup> is a rigid, single density, dimensionally stable, mineral wool insulation board; compatible with mechanically fastened, cold applied and fully adhered roof systems. It is intended for commercial and industrial roof insulation applications. It is suitable for new construction, re-roof and re-cover applications as an insulation coverboard.

<b>Compliance and Perf</b> ASTM C726 FM Approvals 4470	Standard Specification for Min Approval Standard for Single-F Sheet, Built-Up Roof (BUR) ar	n Complies blies			
FM Approvals 4470	for use in Class 1 and Noncon NCC – (Noncombustible Core)	tion Complies			
Fire Performance: NFPA 276	Standard Method of Fire Tests Rate of Roofing Assemblies w Roofing Components	lease Class 1			
CAN4 S114 CAN/ULC-S107-03 CAN/ULC-S126-06 ASTM E 84 (UL 723)	Test for Non-Combustibility Fire Tests of Roof Coverings Fire Spread Under Roof Deck Surface Burning Characteristic	Non-Combustible Class A Construction C7, C18, C28, C38 Flame Spread = 0 Smoke Developed = 0			
CAN/ULC S102	Surface Burning Characteristic	Flame Spread = 0 Smoke Developed = 0			
UL 790 (ASTM E 108)	Standard Test Methods for Fin See UL Roofing and Materials	Class A			
UL 263 (ASTM E 119)		tory at the following link for as /XYV/template/LISCANADA/ 8, P230, P237, P238, P242, I 8, P510, P512, P514, P701, I	FRAME/index.html P245, P250, P254, P259, P404, P409, P708, P710, P711, P718, P729, P732,		
Dimensional Stability ASTM C 356			1.1 %		
	-	Linear Shrinkage 24 Hrs. @ 1200°F (650°C) Linear change 7 days @ 40°F (-40°C) ambient RH			
ASTM D 2126	Linear change 7 days @ 40°F Linear change 7 days @ 200°I Linear change 7 days @ 158°I	0.0 % 0.1 % 0.1 %			
<b>Hail Performance:</b> FM 4470 FM 4473 UL 2218	Test Standard for Susceptibilit Impact Resistance by Impactir Impact Resistance of Prepared	Class 1 – SH (Severe Hail) Class 4 Class 4			
Moisture Resistance: ASTM C 1104 ASTM E 96 ASTM C 209	Water Vapor Sorption Water Vapor Transmission, De Water Absorption	0.29 % 2360 ng/Pa.s.m <sup>2</sup> (41 Perm) < 1.0 %			
Thermal Resistance: ASTM C 518 (C 177)	Mean Temperature 25°F (-4°C) 40°F (4°C) <b>75°F (24°C)</b> 110°F (43°C)	R-value 4.4 hr.ft².F/Btu 4.3 hr.ft².F/Btu <b>4.0 hr.ft².F/Btu</b> 3.7 hr.ft².F/Btu	RSI value 0.77 m²K/W 0.75 m²K/W <b>0.70 m²K/W</b> 0.66 m²K/W		

# MonoBoard

#### **Corrosive Resistance:**

ASTM C 665 ASTM C 795 \*\*\* Corrosiveness to Steel Stainless Steel Stress Corrosion Specification as per Test Methods C871 and C692: U.S. Nuclear Regulatory Commission, Reg. Guide #1.36: U.S. Military Specifications MIL-I-24244 (all versions including B and C)

Non-corrosive Non-corrosive

#### **Acoustical Performance:**

ASTM C 423		CO-EF	CO-EFFICIENTS AT FREQUENCIES					
Thickness	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	NRC	
1.0"	0.13	0.49	0.85	0.89	0.89	0.97	0.80	
Compressiv	e Strength:				Key App	lication Qual	ifiers:	
ASTM C 165	at 10%	b 12 psi	(85 kPa)		<ul> <li>Will not promote blistering</li> </ul>			
(1" thickness)	at 25%	b 28 psi	(190 kPa)		Does not off gas			
					<ul> <li>Will not w</li> </ul>	arp or cup		
Density:					<ul> <li>Dimensionally stable</li> </ul>			
	9 – Actual 12.5	$b/ft^3$ 200 kg/m <sup>3</sup>			<ul> <li>High impact resistance</li> </ul>			
			-		<ul> <li>Low mois</li> </ul>	ture sorption		
Dimensions:					<ul><li>Non-corrosive</li><li>Long term stable R-value</li></ul>			

48" (width) x 48" (length) 1219 mm (width) x 1219 mm (length)

MIAMI DADE COUNTY

#### Thickness:

nominal 1 inch - actual 1.04 inch (26.5 mm)



### Limitations:

This product should not be exposed to inclement weather during shipment, storage or installation. At the completion of a day's work, all exposed edges should be temporarily sealed by lapping roof membrane over them. The products are not intended for use as a structural roof deck or for use under heavy traffic areas.

Noncombustible

Excellent acoustical properties

Made from natural & recycled materials

#### **On-Site Storage:**

The factory packaging is intended for the protection of the insulation boards during transit and is not intended for job site protection against the elements. When product is stored outdoors, the plastic shroud must be slit and the insulation protected by a waterproof, breathable covering such as a tarpaulin. Insulation must be stored minimum 4 in. (102 mm) above ground and kept on a solid flat surface.

## **Other ROXUL Products:**

Please consult ROXUL for all your insulation needs. We have an extensive range of products for all applications from pipe insulation to commercial products to residential batts. ROXUL invites all inquiries and will act promptly to service all of your requirements.

\*\*\* "Provisions for lot testing may be required, consult manufacturer."

#### Note:

As ROXUL Inc. has no control over installation design and workmanship, accessory materials or application conditions, ROXUL Inc. does not warranty the performance or results of any installation containing ROXUL Inc's. products. ROXUL Inc's. overall liability and the remedies available are limited by the general terms and conditions of sale. This warranty is in lieu of all other warranties and conditions expressed or implied, including the warranties of merchantability and fitness for a particular purpose.

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