

## ROXUL ROCKBOARD® 40

## Commercial Multi-Purpose Board

### Product Description & Application

ROXUL ROCKBOARD® 40 is a semi-rigid, multi-purpose mineral wool insulation board

	Performance	Test Standard																																																
Compliance	Mineral Fiber Block and Board Thermal Insulation - Type IVA Compliant	ASTM C612																																																
Reaction to Fire	Flame spread index = 0 ; Smoke development index = 0 Flame spread index = 0 ; Smoke development index = 0 Behaviour of materials at 750°C - Non Combustible Test for Non-Combustibility - Non Combustible Hot Surface Performance - 1200°F	ASTM E84 (UL 723) CAN/ULC S102 CAN/ULC S114 ASTM E136 ASTM C411																																																
Density	Actual Density - 4 lbs/ft³ (64 kgs/m³)	ASTM C303																																																
Dimensional Stability	Linear Shrinkage - <1% @ 1200°F	ASTM C356																																																
Corrosion Resistance	Stress Corrosion Cracking Tendency of Austenitic Stainless Steel - Passed Corrosion of Steel - Passed	ASTM C795 ASTM C665																																																
Thermal Resistance	R-Value / inch @ 75°F                      4.2 hr.ft².F/Btu RSI value / 25.4mm @ 24°C                0.74 m²K/W	ASTM C518 (C177)																																																
Reaction to Moisture	Moisture Sorption - 0.03% Determination of Fungi Resistance - Passed	ASTM C1104 ASTM C1338																																																
Compressive Strength	90psf (4.3kPa) @ 10% compression 225psf (10.8kPa) @ 25% compression	ASTC C165																																																
Air Erosion	Maximum Air Velocity 1000 fpm (5.08 m/s)	UL 181																																																
Thickness Dimensions	Product is available in 1" through 4" offerings (25.4mm - 101.6mm) 24"x48" (610mm x 1219mm)																																																	
Acoustical Performance	<table border="1"> <thead> <tr> <th>Thickness</th> <th>125 Hz</th> <th>250 Hz</th> <th>500 Hz</th> <th>1000 Hz</th> <th>2000Hz</th> <th>4000 Hz</th> <th>NRC</th> </tr> </thead> <tbody> <tr> <td>1.0"</td> <td>0.07</td> <td>0.32</td> <td>0.77</td> <td>1.04</td> <td>1.05</td> <td>1.05</td> <td>0.8</td> </tr> <tr> <td>1.5"</td> <td>0.18</td> <td>0.48</td> <td>0.96</td> <td>1.09</td> <td>1.05</td> <td>1.05</td> <td>0.9</td> </tr> <tr> <td>2"</td> <td>0.26</td> <td>0.68</td> <td>1.12</td> <td>1.1</td> <td>1.03</td> <td>1.04</td> <td>1</td> </tr> <tr> <td>3"</td> <td>0.63</td> <td>0.95</td> <td>1.14</td> <td>1.01</td> <td>1.03</td> <td>1.04</td> <td>1.05</td> </tr> <tr> <td>4"</td> <td>1.03</td> <td>1.07</td> <td>1.12</td> <td>1.04</td> <td>1.07</td> <td>1.08</td> <td>1.1</td> </tr> </tbody> </table>	Thickness	125 Hz	250 Hz	500 Hz	1000 Hz	2000Hz	4000 Hz	NRC	1.0"	0.07	0.32	0.77	1.04	1.05	1.05	0.8	1.5"	0.18	0.48	0.96	1.09	1.05	1.05	0.9	2"	0.26	0.68	1.12	1.1	1.03	1.04	1	3"	0.63	0.95	1.14	1.01	1.03	1.04	1.05	4"	1.03	1.07	1.12	1.04	1.07	1.08	1.1	ASTM C423
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