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› BRB Products ProRox SL940 Mineral Wool Board Instruction Manual

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Model: ProRox SL940 | Brand: BRB Products

1. INTRODUCTION

The BRB Products ProRox SL940 is a high-performance, semi-rigid mineral wool insulation board designed for various thermal and acoustical applications. Manufactured from natural stone and recycled materials, this product offers excellent fire resistance, water repellency, and sound absorption properties. This manual provides essential information for the safe handling, installation, and general understanding of the ProRox SL940 mineral wool board.



Figure 1: Stack of BRB Products ProRox SL940 mineral wool insulation boards.

2. PRODUCT OVERVIEW AND FEATURES

ProRox SL940 mineral wool boards are engineered for durability and performance in demanding environments. Key features include:

- **Noise Insulation:** High density and random fiber orientation effectively trap sound waves, reducing noise transmission and vibration. Ideal for offices, bedrooms, and areas requiring sound control.
- **Thermal Insulation:** Provides superior thermal resistance (R-value) compared to many traditional insulation materials, contributing to energy efficiency and reduced heating/cooling costs.
- **Fire Resistant:** Composed of rock, the material is inherently fire resistant, meeting properties in accordance with ASTM C553. This enhances building safety.
- **Water Resistant:** The boards do not absorb water or retain moisture, featuring characteristics that drain water away, preventing mold and mildew growth.
- **Long-Term Performance:** The inherent durability of stone wool ensures an extended product lifetime without significant degradation.
- **Ease of Installation:** Designed for straightforward cutting with a serrated knife, allowing for clean edges and a precise fit during installation.



Figure 2: A pack of five 2-inch thick ProRox SL940 boards.

3. SAFETY INFORMATION

Always prioritize safety when handling and installing insulation materials.

- **Personal Protective Equipment (PPE):** Wear appropriate PPE, including safety glasses, gloves, and a dust mask or respirator, to prevent skin irritation and inhalation of airborne fibers.
- **Ventilation:** Ensure adequate ventilation in the work area to minimize dust accumulation.
- **Handling:** While durable, handle boards carefully to avoid unnecessary breakage or damage.
- **Cutting:** Use a sharp serrated knife or specialized insulation saw for cutting. Cut on a stable surface away from sensitive materials.
- **Disposal:** Dispose of waste material according to local regulations.



Figure 3: Proper PPE (mask and gloves) during insulation installation.

4. INSTALLATION INSTRUCTIONS

Follow these steps for effective installation of ProRox SL940 mineral wool boards:

1. **Preparation:** Ensure the installation area is clean, dry, and free from obstructions. Measure the dimensions of the cavities or surfaces where the insulation will be installed.
2. **Cutting:** Using a serrated knife or insulation saw, carefully cut the ProRox SL940 boards to the required size. Cut slightly larger than the cavity width (approximately 1/2 inch) to ensure a snug, friction fit.



Figure 4: Cutting ProRox SL940 board with a serrated knife.

3. **Fitting:** Gently compress the cut board and insert it into the wall, ceiling, or floor cavity. The board should fit snugly without gaps. Ensure the insulation is flush with the framing members.
4. **Obstructions:** Carefully cut and fit insulation around electrical boxes, pipes, and other obstructions to maintain continuous coverage.
5. **Vapor Barrier (if required):** If a vapor barrier is necessary for your climate zone, install it according to local building codes after the insulation is in place.

5. MAINTENANCE

ProRox SL940 mineral wool boards require minimal maintenance once installed.

- **Inspection:** Periodically inspect exposed insulation for any signs of damage or moisture intrusion. Address any issues promptly.
- **Moisture:** Although water-resistant, prolonged exposure to standing water should be avoided. Ensure proper drainage and waterproofing in areas where insulation is installed.
- **Cleaning:** If necessary, gently clean any surface dust with a vacuum cleaner or soft brush. Avoid using harsh chemicals or excessive moisture.

6. SPECIFICATIONS

Technical details for the BRB Products ProRox SL940 Mineral Wool Board (2 Inch, 6# Density):

Attribute	Detail
Brand	BRB Products
Model Number	ProRox SL940
Manufacturer	Rockwool
Material	Mineral Wool (Stone Wool)
Density	6# Density
Item Thickness	2 Inches
Product Dimensions (each board)	24" L x 48" W
Package Quantity	5 Boards
Coverage (per package)	40 sq ft (5 boards x 2' x 4')
Color	Yellow
Recommended Use	Thermal and Acoustic Insulation
UPC	685757189064

ProRox® SL 940

ProRox SL 940 is a rigid stone wool slab suitable for the thermal and acoustic insulation of horizontal and vertical applications.



Product properties

Properties	Performance									Norms
	T _m (°C)	50	100	150	200	250	300	350	400	
Thermal conductivity λ (W/mK)		0,041	0,047	0,055	0,065	0,078	0,093	0,108	0,126	EN 12667 ASTM C177
Maximum Service Temperature					400°C (752°F) 500°C (932°F)					EN 14706 ASTM C411
Reaction to fire					Euroclass A1					EN 13501-1 ASTM E84 (UL 723)
Nominal density					70 kg/m ³ (4,4 lb/ft ³)					EN 1602
Water leachable chloride content		Conforms to the stainless steel corrosion specification as per ASTM test methods C 692 and C 871								ASTM C795
Water Absorption					< 1 kg/m ² Water vapour absorption (Vapor sorption) ± 0,02%vol					EN 1609 ASTM C1104/C1104M
Water vapour diffusion resistance					μ = 1 S _d > 200 m (for Alu-foil faced product)					EN 14303
Air Flow Resistivity					> 30 kPa.s/m ²					EN 29053
Designation code					MW EN 14303-T4(T3 if t<60)-ST(+)+400-WS1 MW EN 14303-T4(T3 if t<60)-ST(+)+400-WS1-MV2 (for Alu-foil faced product)					EN 14303

Compliance

ProRox SL 940 Slabs fully comply with the requirements as set by internationally recognized standards like EN14303, CINI 2.2.01 and ASTM C612 Type IA.

As ROCKWOOL has no control over insulation design and workmanship, accessory materials or applications conditions, ROCKWOOL does not warranty the performance or result of any installation containing ROCKWOOL products. ROCKWOOL's overall liability and the remedies available are limited by the general terms and conditions of sale. This warranty in lieu of all other warranties and conditions expressed or implied, including the warranties of merchantability and fitness for a particular purpose. ROCKWOOL Technical Insulation reserves the right to make necessary product changes at any time. Technical specifications are thus stated subject to change.

Figure 5: Excerpt from the ProRox SL 940 technical data sheet.

7. TROUBLESHOOTING

Mineral wool insulation is generally straightforward to install and maintain. However, consider the following if issues arise:

- **Gaps in Insulation:** Ensure boards are cut slightly oversized for a friction fit. Fill any small gaps with cut pieces of insulation or appropriate sealant to maintain thermal and acoustic performance.
- **Moisture Accumulation:** If moisture is observed, identify and address the source of water intrusion immediately. Remove and replace any insulation that has become saturated to prevent mold growth and maintain performance.
- **Dust and Irritation:** If experiencing excessive dust or skin irritation during handling, verify that appropriate PPE (dust mask, gloves, long sleeves) is being used and that the work area is well-ventilated.

8. WARRANTY AND SUPPORT

For specific warranty information regarding the ProRox SL940 Mineral Wool Board, please refer to the documentation provided at the time of purchase or contact BRB Products directly.

For technical support, product inquiries, or assistance with installation, please reach out to BRB Products customer service. Contact details can typically be found on the product packaging or the official BRB Products website.