

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						EN 1609 ASTM C1104/C1104M
Water vapour diffusion resistance					$\mu = 1$ $S_d > 200$ 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.

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ProRox® SL 940^{NA}

**NEW
NAME**

Old name: ROXUL RHT® 60

Product description & application

ProRox® SL 940^{NA} is a rigid mineral wool (stone wool) insulation board for high temperature industrial applications.

Product properties in accordance with ASTM C612

	Performance								Norms
Thermal conductivity	T _m [°F]	100	200	300	400	500	600	700	ASTM C177
	λ (BTU.in/hr.ft ² .°F)	0.26	0.30	0.36	0.42	0.51	0.61	0.73	
	T _m [°C]	38	93	150	204	260	316	371	
	λ (W/mK)	0.037	0.043	0.052	0.061	0.074	0.088	0.105	
Maximum Service Temperature	Hot Surface Performance: 1200 °F- (650 °C)								ASTM C411
	Non-Combustible								ASTM E136 / CAN4 S114
	Linear Shrinkage: ≤ 1 % at 1200 °F- (650 °C)								ASTM C356
Reaction to fire	Surface burning characteristics Flame spread index = 0 ; Smoke development index = 0								ASTM E84 [UL 723] CAN/ULC S102
Density	Actual Density = 4.4 lb/ft ³ - [70 kg/m ³] Nominal Density = 6.0 lb/ft ³								ASTM C303
Corrosion resistance **	Stress Corrosion Cracking Tendency of Austenitic Stainless Steel = Passed								ASTM C692
	Corrosion of Steel = Passed								ASTM C665
Chemical Analysis **	[Salts: Cl ⁻ , F ⁻ , Na ⁺ , SiO ₄ ⁴⁻] Results fall within acceptability limits of ASTM C795								ASTM C795 / ASTM C871
Thermal Resistance	R-Value / inch @ 75 °F				4.2 hr. ft ² .°F/BTU				ASTM C518 [C177]
	RSI value / 25.4mm @ 24 °C				0.74 m ² K/W				
Water Absorption/ Vapor Sorption	< 1 % Weight								ASTM C1104
Compliance	Complies with Type: IVB								ASTM C612
ROXUL offers a wide range of facings, dimensions and thicknesses. Please contact ROXUL for further information.									

Surface Burning Characteristics: UL Listed to Canadian standard CAN/ULC S102 ; UL Classified to UL 723



NOTE: ** Provisions for lot testing may be required, consult manufacturer.

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BOARD INSULATION 15080*
PROCESS EQUIPMENT INSULATION
40 42 23**
MINERAL BOARD INSULATION
07 21 13**

General Product Information:

ROXUL® products are mineral wool fibre insulations made from basalt rock and slag. This combination results in a non-combustible 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 vapour permeable material.

Description & Common Applications:

The RHT® 60 product is a non-combustible, semi-rigid mineral wool insulation board that is water repellent and designed for high temperature applications where durability and some flexibility are required. Common application areas for the RHT series of board insulation are storage tank insulations, drying/oven equipment, petro-chemical and power generating equipment protection where high temperature, fire resistance, and moisture resistance are concerns.

Compliance and Performance:

ASTM C 612	Mineral Fiber Block and Board Thermal Insulation	Type IVB, Complies
MEA Approval	New York City Approval	331-97-M
City Of Los Angeles Approval		RR 25444

Fire Performance:

ASTM E 136	Behaviour of Materials at 750°C (1382°F)	Non-Combustible
CAN4 S114	Test for Non-Combustibility	Non-Combustible
ASTM E 84(UL 723)	Surface Burning Characteristics	Flame Spread = 0
		Smoke Developed = 5
		Flame Spread = 0
		Smoke Developed < 5
CAN/ULC S102	Surface Burning Characteristics	

Maximum Service Temperature:

ASTM C 411	Hot Surface Performance	In Compliance with ASTM C612 @ 1200°F(650°C)
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Dimensional Stability:

ASTM C 356	Linear Shrinkage	<1% @ 1200°F (650°C)
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Moisture Resistance:

ASTM C 1104	Moisture Sorption	0.01%
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Thermal Resistance:

ASTM C 518 (C 177)	R-value/inch @ 75°F	4.2 hr.ft ² .F/Btu***
	RSI value/25.4 mm @ 24°C	0.74 m ² K/W

Corrosive Resistance:

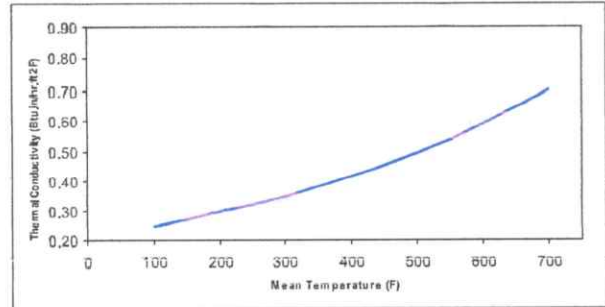
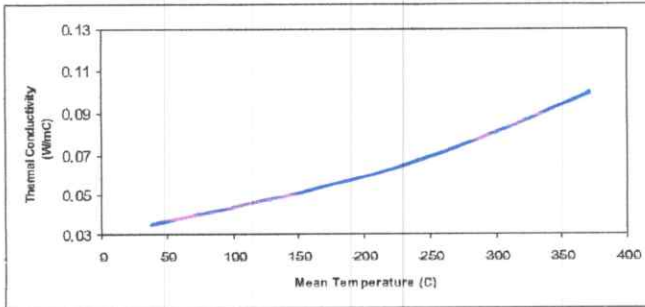
ASTM C 665	Corrosiveness to Steel	Pass
ASTM C 795 ****	Stainless Steel Stress Corrosion Specification as per Test Methods C871 and C692: U.S. Nuclear Regulatory Commission, Reg. Guide #1.36: U.S. Military Specifications MIL-I-24244 (all versions including B and C)	Conforms

Acoustical Performance

ASTM C 423 CO-EFFICIENTS AT FREQUENCIES							
Thickness	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	NRC
1.5"	0.19	0.55	1.03	1.06	1.02	1.01	0.90
2.0"	0.26	0.71	1.14	1.09	1.04	1.03	1.00

*MASTER FORMAT 1995 EDITION **MASTER FORMAT 2004 EDITION
*** at the time of manufacturing

Thermal Conductivity:



Compressive Strength:

ASTM C 165	at 10%:	104 psf (5 kPa)
	at 25%:	230 psf (11 kPa)

Density:

ASTM C 612-93 - Nominal	6.0 lbs/ft ³	96 kg/m ³
ASTM C 612-09 - Actual ≥ 2" thickness	4.4 lbs/ft ³	70 kg/m ³

Dimensions:

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

Thickness:

Product thickness is available in 1" through 2.5" in 1/2" increments as well as 3", 4" and 5" offerings.

For additional sizes, please contact our customer service representatives.

Facing:

This product can be faced with reinforced foil. **Please note that the facing will influence the product's service temperature range.**



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

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Key Application Qualifiers:

- Easy to install
- Service temperature 1200°F (650°C)
- Non-combustible
- Lightweight
- Can be fabricated/laminated
- Excellent thermal resistance
- Low moisture sorption
- Good compressive resistance
- Non-corrosive
- Chemically inert
- CFC and HCFC free product and process
- Made from natural & recycled materials

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.