

# ProRox® SL 590<sup>NA</sup>

ProRox® SL 590<sup>NA</sup> is a pressure resistant rigid mineral wool (stone wool) insulation board designed for thermal insulation of tank tops (vessel heads) exposed to foot traffic or constructions subjected to heavy mechanical loads.



## Product properties in accordance with ASTM C612

Properties	Performance						Norms
Thermal conductivity	$T_m$ (°F)	100	200	300	400	500	ASTM C177
	$\lambda$ (BTU.in/hr.ft <sup>2</sup> .°F)	0.27	0.32	0.36	0.42	0.48	
	$T_m$ (°C)	38	93	149	204	260	
	$\lambda$ (W/mK)	0.039	0.046	0.052	0.061	0.069	
Maximum Service Temperature	Hot Surface Performance: 1200°F- (650°C) Non-Combustible						ASTM C411 CAN4 S114
	Linear Shrinkage: $\leq 1\%$ 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 = 11.0 lb/ft <sup>3</sup> - (176 kg/m <sup>3</sup> ) Nominal Density = 15.0 lb/ft <sup>3</sup>						ASTM C303
Corrosion resistance**	Stress Corrosion Cracking Tendency of Austenitic Stainless Steel = Passed Corrosion of Steel = Passed						ASTM C692 ASTM C665
Chemical Analysis**	(Salts: Cl <sup>-</sup> , F <sup>-</sup> , Na <sup>+</sup> , SiO <sub>4</sub> <sup>4-</sup> ) Results fall within acceptability limits of ASTM C795						ASTM C795 / ASTM C871
Thermal Resistance	R-Value / inch @ 75°F RSI value / 25.4mm @ 24°C			4.0 hr. ft <sup>2</sup> .°F/BTU 0.71 m <sup>2</sup> K/W			ASTM C518 (C177)
Water Absorption/ Vapor Sorption	< 1 % Weight						ASTM C1104
Compressive strength	1000psf (50kPa) @ 10 % compression (typical)						ASTM C165
Compliance	Complies with Type: IVA						ASTM C612

ROCKWOOL Technical Insulation offers a wide range of facings, dimensions and thicknesses. Please contact us for further information.

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

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



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