

ProRox SL 540

Applications

ProRox SL 540 is a highly compression resistant stone wool slab for thermal and acoustic insulation of constructions where high temperatures and light mechanical loads occur.

Compression resistant slab

Compliance

ProRox SL 540 Slabs fully comply with the requirements as set by internationally recognized standards like EN14303, CINI 2.2.01, ASTM C612 Type IA, IB, II, III, IVA and IVB and IS 8183.



Approximate quantities per 40ft HC container in m²

Thickness (mm)	Length (mm)	Width (mm)	Packaging m ² /pack	m ² per 40ft HC container*
30	1000	600	4.8	2100
40	1000	600	3.6	1663
50	1000	600	2.4	1301
75	1000	600	1.8	840.6
100	1000	600	1.8	630

Advantages

- Excellent thermal and acoustic insulation
- Resistant to high temperatures
- Resistant to mechanical loads

Product properties¹

Properties	Performance							Standard
	Mean Temp (°C)	50	100	150	200	250	300	
Thermal Conductivity ²	λ (W/mK)	0.038	0.045	0.052	0.062	0.070	0.079	ASTM C177
	λ (W/mK)	0.039	0.045	0.053	0.063	0.073	0.083	IS 3346
Nominal Density	160 kg/m ³							ASTM C303/ IS 3144
Heat Resistance	No visible deterioration of the fibrous structure. No evidence of self heating. No fusion of fibers at 750°C							IS 3144
Maximum Service Temperature	650°C							ASTM C411/C447
Linear Shrinkage	Less than 2% (at max service temperature)							ASTM C356
Incombustibility	<5 wt%							IS 3144
Compressive Strength	Up to 25kPa (At 10% deformation)							EN 826
Reaction to Fire	EuroClass A1							EN 13501-1
	Surface burning characteristics; Flame spread = passed, Smoke development = passed							ASTM E84
pH	7-10							IS 3144
Water Leachable Chloride Content	Less than 10 ppm							ASTM C871/ IS 3144
	Conforms to the stainless steel corrosion specification as per ASTM C795							ASTM C692/C871
Sulphur Content	< 0.3 vol%							IS 3144
Water Absorption	Less than 1 kg/m ²							EN 1609
Moisture Absorption	Less than 1% weight							ASTM C1104/C1104M
								IS 3144
Shot Content	> 250µm < 8 wt%							IS 3144
	> 500µm < 3 wt%							

Note: 1. All information and data for technical parameters are based on laboratory testing.
2. Nominal values.

