

ROCKWOOL PANEL / BOARD

Rockal rockwool fibers are formed by spinning or drawing molten non-combustible and inorganic volcanic basalt rocks. These fibers are processed with a thermoset and non-combustible resin binder to shape slabs conforming to EN 13162 & ASTM C 612. It is preformed porous and rigid or semi-rigid rockwool board with very good performance on thermal, acoustic and fire insulation. Some applications of Rockal rockwool panels include thermal insulation (as structural insulation), filtration, soundproofing, and hydroponic growth medium.



Product information:

Product Name:	ROCKAL ROCKWOOL PANEL			Length (mm):	1200	Facing 1:	NONE
Density (Kg/m³):	45	Thickness (mm):	100	Width (mm):	600	Facing 2:	NONE

Technical properties of fibers:

1	Classification	Class A1 + T2			EN 13162
		Type IVB / Category 2			ASTM C 612-14
2	Non-combustibility	Non-combustible			EN ISO 1182
3	Gross heat of combustion (Cal/g) (Calorific value)	≤ 0.5			EN ISO 1716
4	Surface burning Characteristics:				ASTM E 84
	● Flame spread index	≤ 25			
	● Smoke developed index	≤ 50			
5	Thermal conductivity & Thermal resistance	Temp. (°C)	λ (W/m.k)	R (k.m2/W)	ASTM C 518
		10	0.036	2.78	
		24	0.035	2.86	
		38	0.036	2.78	
		93	0.043	2.33	
		149	0.052	1.92	
		204	0.055	1.82	
		260	0.061	1.64	
		316	0.073	1.37	
		371	0.086	1.16	
6	Use temperature	from -30 to 750 C			ASTM C 411 / C 447
7	Melting temperature	> 1000 C			
8	Corrosiveness to steel	Pass			ASTM C 665
9	Stress corrosion austenitic stainless steel	Pass			ASTM C 795
10	pH - value	7			ASTM C 871
11	Non-fibrous (Short) content	< 25 %			ASTM C 1335
12	Water vapor sorption	≤ 2 %			ASTM C1104/ C1104M
13	Fungi growth	No			ASTM C 1338
14	Odor emission	No			ASTM C 1304
15	Rigidity	Rigid and semi-rigid			ASTM C 1101/C 1101M
16	Compressive resistance @10% deformation	3 KPa			ASTM C 165-06
17	Linear shrinkage	≤ 1%			ASTM C 356
18	Noise reduction coefficient (NRC)	≥ 0.85			ASTM C 423
19	Environment Safety	CFC, HCFC and Asbestos free			