Rock Wool Panels

The Stone Wool product is used in industrial insulation. Formed by spinning or drawing non combustible volcanic basalt rocks.

The compliance of the slabs with the EN 13162:2012 & ASTM C 612-14:2019 standards is achieved by treating the fibers with a thermosetting and non-combustible resin binder.

The Rock Wool Panels are porous and rigid or semi-rigid with very good performance on thermal, acoustic and fire insulation

Density (Kg/M³)	**35-200**	**Thickness (mm)**	**25-200**
Length (mm)	**1200**	**Width (mm)**	**60**

The length and width can be adjusted according to the customer's request in the event that he requests dimensions other than those typical dimensions.

Facing

- None, Aluminum foil, FSK, KCL or BGF, BGT, Vinyl, PE, Kraft paper.
- Bitumen facing can be as Bitumen coating or Bitumen membrane.
- On one side or both sides.

Environment Safety :

- ✓ ECO friendly building material.
- ✓ CFC, HCFC, and Asbestos free.

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Technical properties

	Property	Values		Notes
1	Classification	Class A1 + T2		EN 13162
		Type IVB/ Category 2		ASTM C 612-14 : 2019
2	Non-combustibility	Non-combustible		EN ISO 1182
3	Gross Heat of combustion (Cal/g) (Calorific Value)	0		EN ISO 1716
4	Surface burning Characteristics :	Non-Combustible		ASTM E 84
	• Flame Spread Index	0		
	• Smoke developed index	0		
5	Thermal Conductivity	Temp. (°C)	Max	ASTM C 518
		24	0.034	
		38	0.035	
		93	0.042	
		149	0.051	
		204	0.060	
		260	0.075	
		316	0.090	
		371	0.107	
6	Max use temperature (°C)	750°		ASTM C 411/ C 447
7	Melting temperature (°C)	➢ 1 100° 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	< 30%		ASTM C 1335
12	Water vapor sorption	< 5%		ASTM C1104/ C1104M
13	Fungi growth	No		ASTM C 1338
14	Odore mission	No		ASTM C 1304
15	Rigidity	Rigid and Semi-rigid		ASTM C 1101/ C1101M
16	Linear shrinkage	<2%		ASTM C 356
17	Noise reduction Coefficient	<0.85		ASTM C 423

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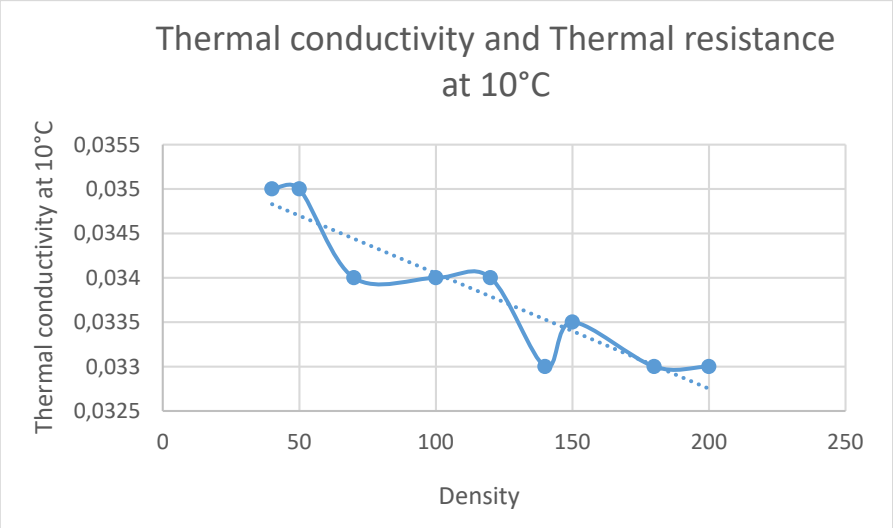
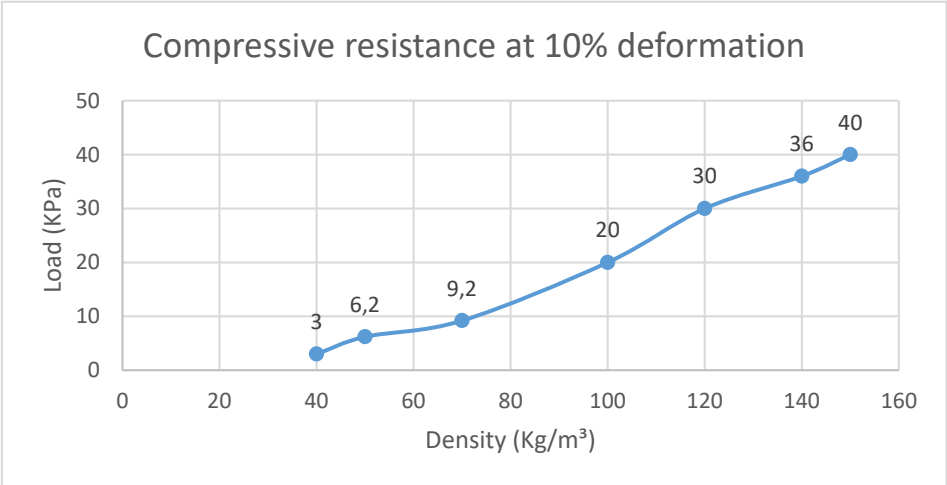
Thermal conductivity (λd) and Thermal resistence (Rd) at 10°C according to EN 12667 :

Thermal conductivity (W/m.k)	Density (Kg.m³)
0,035	40
0,035	50
0,034	70
0,034	100
0,34	120
0,033	140
0,0335	150
0,033	180
0,033	200



Compressive resistance @10% deformation (σ10) according to EN 826 & ASTM C165-06

Density (Kg/m³)	Load (KPa)
40	3
50	6.2
70	9.2
100	20
120	30
140	36
>150	>40



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