ROCKWOOL®

THERMAL AND FIRESAFE INSULATION

FLAT ROOFS **DATASHEET**

SPODROCK
SEMI-RIGID THERMAL INSULATING SLABS



PRODUCT DESCRIPTION
Semi-rigid stone wool slabs, impregnated with special water repellent oils.

APPLICATION
SPODROCK slabs are used for thermal and acoustic insulation of flat roofs with concrete structures and roofs made of trapezoidal metal plates (steel decks) only as lower base layer of multilayer roofing thermal insulation, as its density allows better fitting to the base roughness.

SPECIFIC PROPERTIES OF ROCKWOOL STONE WOOL
- Notable improvement of thermal and acoustic insulation;
- Excellent mechanical rigidness;
- Efficient fire protection;
- High vapor permeability and regulation;
- Chemically inert and perfect fitting to the building construction;
- Environmentally friendly, no contents of asbestos or toxic elements;
- Harmless to man, no requirements for special means of protection;
- Not an environment for rodents and micro-organisms;
- Fast and easy to assemble.

PACKING
The slabs are wrapped in PE foil with the name of the manufacturer and the basic product data on the label.

DIMENSIONS, PRODUCT RANGE AND PACKING

Thickness (mm)	40	50	60	70	80	90	100	110	120	140	150	160	170	180
Length x width (mm)	1000 x 600													
m^2 / pack	3.60	2.40	2.40	1.80	1.80	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20

Non-standard sizes are available upon agreement with Rockwool, a. s.

TECHNICAL PARAMETERS

Typical Features		Symbol	Value		Unit		Standard
Density		ρ	~125		kg /m^3		EN 1602
Medium thermal resistance at different temperature		λ_D	0.039		W / m.K		EN 12667
Reaction to fire		A_1	Non combustible		-		EN 13501-1
Specific heat capacity		C_p	840		J / kg.K		EN 13162
Melting point		t_t	> 1000		°C		DIN 4102
Compression behavior at 10% deformation		σ_{10}	≥ 30		kPa		EN 826
Tensile strength perpendicular to faces		σ_{mt}	≥ 7.5		kPa		EN 1607
Air flow resistance		r	38.8 / 80 mm		-		EN 29053
Point loading		F_p	150		-		EN 12430
Number of water vapor transmission properties		μ	2.15		kg /m^3		EN 12086
24 h short term water absorption by partial immersio	Partial dipping	W_p	≤ 1	test = 0.14	kg /m^2		EN 1609
	Complete dipping	W_{lp}	≤ 3		kg /m^2		EN 12087
Noise reduction coefficient α_s	Hz	125	250	500	1000	2000	4000	EN ISO 20354
	α_s / δ = 30mm	0.04	0.41	0.80	0.76	0.73	0.79	
	α_s / δ = 50mm	0.11	0.69	0.89	0.76	0.75	0.83	
Bulgarian Technical Approval		Protocol № 00-140/ 12.05.2004		SRICM, Sofia				EN 13162
Sanitary Permit		№ 03579 / 2000 by Bulgarian Ministry of Health						
Environment Management System		Certificate No.140868		Bureau Veritas (BVQI) CS Prague				ISO 14001:2000
Quality Management System		Certificate No. 134429		Der Norske Veritas (DNV) Magyarorszag Kft.				ISO 9001:2000

Any information contained in this data sheet describes the product properties applicable as at the time of issue. With respect to continuous development of these materials, changes to their properties may take place from time to time.

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