

FLAT ROOFS

DATASHEET

DACHROCK

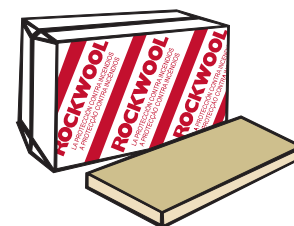
THERMAL INSULATING SLABS

PRODUCT DESCRIPTION

Hard rigid stone wool slabs, impregnated with special water repellent oils.

APPLICATION

DACHROCK is used for thermal and sound reduction insulation of metal or concrete flat roofs. ; it can be put as a top layer in multilayer or as one layer in singlelayer roofing thermal insulating systems, just under the hydroinsulating material.



SPECIFIC PROPERTIES OF ROCKWOOL STONE WOOL

- Notable improvement of thermal and acoustic insulation;
- Excellent mechanical rigidity;
- Efficient fire protection;
- Additional impregnation with silicone resins;
- High vapor permeability and regulation;
- Compatible with all kinds of membranes: bituminous or synthetic;
- 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	100	120	130	140	150	160	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

DACHROCK with bituminous penetration is available only in the product range of thicknesses 40 – 120 mm incl.

TECHNICAL PARAMETERS

Typical Features		Symbol		Value		Unit		Standard	
Density		ρ		~ 160		kg /m ³		EN 1602	
Medium thermal resistance at different temperature		λ_D		0.041		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_i		> 1000		°C		DIN 4102	
Air flow resistance		r		38.8 / 80 mm		-		EN 29053	
Compression behavior at 10% deformation		σ_{10}		≥ 70	test = 75	kPa		EN 826	
Tensile strength perpendicular to faces		σ_{mt}		≥ 15		kPa		EN 1607	
Point loading		F_p		550		-		EN 12430	
Number of water vapor transmission properties		μ		2.95		kg /m ³		EN 12086	
24 h short term water absorption by partial immersion	Partial dipping	W_p		≤ 1	test = 0.12	kg /m ²		EN 1609	
	Complete dipping	W_{fp}		≤ 3		kg /m ²		-	
Noise reduction coefficient α_s	Hz	125	250	500	1000	2000	4000	EN ISO 20354	
	α_s / δ = 50mm	0.23	0.70	1.06	1.07	1.00	0.96		
Bulgarian Technical Approval		Protocol № 00-134/ 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) Magyarország 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.