ROCKWOOL®

THERMAL AND FIRESAFE INSULATION

TECHNICAL THERMAL INSULATIONS

DATASHEET

TECHROCK 40

THERMAL INSULATING BATTS



PRODUCT DESCRIPTION

Flexible, hydrophobic stone wool batts, impregnated with athin resin layer. May be one or two - side coated with reinforced aluminium foil (**ALS**), or black fibre glass (**FB1**).

APPLICATION

The batts are used for thermal and acoustic insulation as well as for fireproof of industrial and power generating plants: rezervoirs, cisterns, furnaces, reactors etc. They are applied in flat and slightly curved walls.

SPECIFIC PROPERTIES OF ROCKWOOL STONE WOOL

- Excellent thermal, acoustic and fireproof qualities;
- Water and moisture repellent, absolute water vapour permeability and dimension stability;
- Chemically inert;
- Hydrophobic and non-hygroscopic;
- Environmentally friendly, no contents of asbestos or toxic elements;
- Fast and easy to assemble;
- Harmless to man, no requirements for special means of protection;
- Not an environment for rodents and micro-organisms.

PACKING

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

DIMENSIONS, PRODUCT RANGE AND PACKING											
Thickness (mm)	40	50	60	70	80	100	120	140	150	160	180
Length x Width (mm)	1000 x 600										
m^2 / pack	7.20	6.00	4.80	4.20	4.20	3.60	3.00	2.40	2.40	2.40	1.80

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

TECHNICAL PARAMETERS												
Typical Features		Symbol		Value				Unit				Standard
Density		ρ		~ 40				kg /m^3				EN 1602
Working temperature		t_t		max. 250*				°C				-
Medium thermal resistance		λ_D		0.037				W / m.K				EN 12667
Medium thermal resistance at different temperature		t_m		50	100	150		200	250	°C		EN 12667
		λ_m		0.040	0.045	0.053		0.064	0.078	W.m^{-1}.K^{1}		
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
24 h short term water absorption by partial immersion		W_p		≤ 1		test = 0.26		kg/m^2				EN 1609
Compression behavior at 10% deformation		σ_{10}		0.50				kPa				EN 826
Number of water vapor transmission properties		μ		2				kg /m^3				EN 12086
Noise reduction coefficient α_s	Hz	125	250	500	1000	2000	4000					EN 20354
	α_s / δ = 50mm	0.25	0.68	1.05	1.09	1.05	1.07					
Bulgarian Technical Approval		Protocol № 00-133 /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 datasheet describes the product properties applicable as at the time of issue. With respect of continuous development of these materials, changes to their properties may take place from time to time.

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