ROCKWOOL®

THERMAL AND FIRESAFE INSULATION

TECHNICAL THERMAL INSULATION BATTS

DATASHEET

TECHROCK 80 / RPB 9

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 veil (**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)	30	40	50	60	70	80	90	100	120	140	160	180
Length x Width (mm)	1000 x 600											
m^2 / pack	9.00	7.20	6.00	4.80	3.60	3.60	3.00	3.00	2.40	1.80	1.80	1.20

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

TECHNICAL PARAMETERS

Typical Features	Symbol	Value				Unit				Standard
Density	ρ	~ 80				kg /m^3				EN 1602
Working temperature	t_t	max. 550*				°C				-
Medium thermal resistance at different temperature	t_m	50	100	150	200	250	300	350	°C	EN 12667
	λ_m	0.040	0.045	0.053	0.064	0.078	0.095	0.119	$W.m^{-1}.K^1$	
Reaction to fire	A_1	Non combustible				-				EN 13501-1
Fire barrier (ALS)	*for ventilated channels*	at 60 min				h				-
Compression behavior at 10% deformation	σ_{10}	test = 6				kPa				EN 826
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 = 0.11		kg/m^2				EN 1609
Number of water vapor transmission propertie	μ	2				kg /m^3				EN 12086
Noise reduction coefficient α_s	Hz	125	250	500		1000	2000	4000		EN ISO 20354
	α_s / δ = 50mm	0.21	0.69	1.06		1.08	1.04	1.09		
Bulgarian Technical Approval	Protocol № 00-132 /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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