

ROCKWOOL®

THERMAL AND FIRESAFE INSULATION

VENTILATED FACADES

DATASHEET

AIRROCK ND FB1/FW1

STONE WOOL THERMAL INSULATING SLABS

PRODUCT DESCRIPTION

Flexible, hydrophobic stone wool slabs, one side coated with black (FB1) or white (FW1) glassfibre veil.



APPLICATION

Airrock ND slabs are used for thermal and acoustic insulation:

- in light partition walls;
- in the space over suspended ceilings;
- as light filler in horizontal, vertical and sloped constructions in under-roof space;
- on the external side of ventilated facades, in the space between the main construction of the building and its lining; for sandwich and brick cavity walls.

SPECIFIC PROPERTIES OF ROCKWOOL STONE WOOL

- Fast and easy to assemble;
- Perfect fitting to the building construction;
- Efficient fire protection;
- Notable improvement of thermal and acoustic comfort;
- Water and moisture repellent, absolute water vapour permeability;
- Dust rejection properties of glassfibre veil;
- Chemically inert;
- Environmentally friendly, no contents of asbestos or toxic elements;
- Harmless to man, no requirements for special means of protection when working with it;
- Not an environment for rodents and micro-organisms.

PACKING

The slabs 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	80	100	120
Length x Width (mm)	1000 x 600					
m ² / pack	9.00	7.20	5.40	4.80	3.60	3.00

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

TECHNICAL PARAMETERS

Typical Features	Symbol	Value	Unit	Standard				
Density	ρ	~ 50	kg / m ³	EN 1602				
Medium thermal resistance at different temperature	λ_D	0.035	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}	3.7	kPa	EN 826				
Number of water vapor transmission properties	μ	3.55	kg / m ³	EN 12086				
24 h short term water absorption by partial immersion	Partial dipping	W_p	≤ 1	kg / m ²	EN 1609			
	Complete dipping	W_p	≤ 3	kg / m ²	-			
Air flow resistance	r	12.0 / 120 mm	-	EN 29053				
Noise reduction coefficient α_s	Hz	125	250	500	1000	2000	4000	EN ISO 20354
	$\alpha_s / \delta = 60\text{mm}$	0.21	0.47	1.01	1.02	0.99	0.99	
	$\alpha_s / \delta = 80\text{mm}$	0.30	0.54	0.91	0.90	0.94	0.96	
	$\alpha_s / \delta = 100\text{mm}$	0.41	1.18	1.19	1.03	1.07	1.09	
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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