ROCKWOOL®

THERMAL AND FIRESAFE INSULATION

VENTILATED FACADES

DATASHEET

AIRROCK HD FB1/FW1

STONE WOOL THERMAL INSULATING SLABS



PRODUCT DESCRIPTION

Semi-rigid, hydrophobic stone wool slabs, **one side coated with black (FB1)** or **white (FW1) glassfiber veil**.

APPLICATION

Airrock HD FB1 slabs are used for thermal and acoustic insulation on the external side of ventilated facades – they are inserted in the space between the main construction of the building and its surface linings.

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 and dimension stability;
- Chemically inert;
- 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.

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	7.20	6.00	4.80	3.60	3.00	2.40

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

TECHNICAL PARAMETERS									
Typical Features		Symbol		Value		Unit		Standard
Density		ρ		~70		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
Air flow resistance		r		17.3 /120 mm		kPas/m^2		EN 29053
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_{lp}		≤ 3		kg /m^2		-
Noise reduction coefficient α_s	Hz	125	250	500	1000	2000	4000	EN 20354
	α_s / δ = 50mm	0.22	0.64	0.90	1.00	1.00	0.98	
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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