ROCKWOOL®

THERMAL AND FIRESAFE INSULATION

VENTILATED FACADES, SANDWICH MASONRY, PARTITION WALLS, PITCHED ROOFS

DATASHEET

AIRROCK ND

STONE WOOL THERMAL INSULATING BATTS



PRODUCT DESCRIPTION

Flexible, hydrophobic stone wool batts.

APPLICATION

Airrock ND batts are used for thermal and acoustic insulation:

- **in light partition walls,** above suspended ceilings;
- as light filling 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;**
- in metal cassette wall systems or facades with horizontal grids.

SPECIFIC PROPERTIES OF ROCKWOOL STONE WOOL

- Fast and easy to assemble;
- Perfect fitting to the building construction;
- Efficient fire protection;
- Notable improvement of acoustic comfort;
- Water and moisture repellent, absolute water vapour permeability;
- 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
Thermal conductivity coefficient		λ_D	0.035	W / m.K	EN 12667
Reaction to fire		A_1	Non combustible	-	EN 13501-1
Specific head 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 vapors transmission properties		r	12 / 120 mm	-	EN 29053
Air flow resistance		μ	3.55	kg /m^3	EN 12086
Water absorption for 24h-period	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 = 60mm	0.20	0.70	1.01	0.99	0.99	1.02	
	α_s / δ = 80mm	0.31	0.52	0.86	0.85	0.94	0.96	
	α_s / δ = 100mm	0.36	1.09	1.22	1.09	1.07	1.07	

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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