ROCKWOOL Rockfon®

ACOUSTIC AND HUMIDITY RESISTANT SUSPENDED CEILING BOARDS

DATASHEET

ROYAL SHADOWLINE

ACOUSTIC AND HUMIDITY RESISTANT SUSPENDED CEILING BOARDS



PRODUCT DESCRIPTION

Acoustic boards, made of ROCKWOOL pressed stone wool. Both sides of the boards are covered with glass fibre veil, painted on the face surface. The boards are smooth and white. The edges are sealed with paint.

APPLICATION

ROCKFON suspended ceilings are used in all spheres of building industry: residential, administrative and industrial buildings, business offices, banks, trading centers, hotels, restaurants, sports halls, fitness centers, swimming pools, gymnasiums, schools, hospitals, sanatoriums, laboratories, industrial store houses, workshops, corridors, housing estates, service rooms, etc.

SPECIFIC PROPERTIES OF ROCKFON SUSPENDED CEILINGS



- Notable improvement of thermal and acoustic insulation;
- Perfect humidity resistance, suitable for bathrooms, pools, saunas, etc.;
- Considerable increase of fire resistance time of the buildings;
- Dimensional stability of the tiles;
- Easy to cut by a sharp knife and assemble;
- Lightweight and easily handled;
- Harmless to man, no requirements for special means of protection;
- Not an environment for rodents and micro-organisms;
- Good long term ceiling aesthetics.

PACKING

Cardboard boxes with the name of the manufacturer and the basic product data printed on the label.

DIMENSIONS, PRODUCT RANGE AND PACKING

Edge Details	Symbol	Thickness (mm)	Length (mm)	Width (mm)	m²/pack	Weight / m²
	E	15	600	600	11.52	3.40
		15	1200	600	11.52	3.20
		20	600	600	8.64	3.40
		20	1200	600	8.64	3.20

TECHNICAL PARAMETERS

Typical Features	Symbol	Value			Unit			Standard
Density	ρ	~ 120			kg /m³			EN 1602
Clean rooms classification	-	10			class			FD 209 D
Reaction to fire	A_1	Non combustible			-			EN 13501-1
Fire classification using data from fire resistance tests, excluding ventilation services	-	60			min			EN 13 501-2
Relative humidity at 40°C	*RH*	100			%			EN 13964
Radiometric and photometric properties Wit (568A)	*100 Lux*	84.7			%			ISO 7724-2
Dimensional stability under specified t - 35°C and humidity conditions 48h	-	≤ 1			%			EN 1604
Water absorption for 24h partial dipping	W_p	≤ 1			kg/m²			EN 1609
Thermal conductivity coefficient	λ_D	0.039			W / m.K			EN 12667/ISO 8302
Measurement of sound absorption in a reverberation room α_s (of 20cm suspended ceiling)	Hz	125	250	500	1000	2000	4000	EN ISO 20354
	α_s / δ = 15mm	0.31	0.75	0.85	0.77	0.89	0.88	
	α_s / δ = 20mm	0.56	0.71	0.75	0.75	0.86	0.88	
Noise reduction coefficient	*Dncw*	52			dB			EN ISO 20 140 - 9
Average noise reduction coefficient α_w	α_w / δ = 15mm	0.85			-			EN ISO 20354
	α_w / δ = 20mm	0.80			-			
Bulgarian Technical Approval	Protocol № 00-527/ 12.12.2005				SRICM, Sofia			EN 13162
Sanitary Permit	№ 2066 / 1966 by Bulgarian Ministry of Health							
Quality Management System	Certificate № 650671 / 13.01.2006				Lloyd's Register Quality Assurance			ISO 9001:2000

Any information contained in this datasheet 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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