

DATASHEET

Rockfon Mono® Acoustic



Sounds Beautiful

Rockfon Mono[®] Acoustic

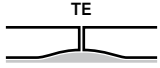




- Perfect for ceilings and walls, the innovative monolithic surface delivers outstanding acoustic comfort and fire protection
- Flat or curved. Direct or suspended installation. The perfect design solution for new-build or renovation projects alike
- The refined white surface provides high light reflection and light diffusion, ensuring even light distribution and reducing the need for artificial light
- Available in custom colours or 33 colours from the Rockfon Colours of Wellbeing range
- A completely seamless system that allows for easy integration of all services and the possibility for surface maintenance

Product Description

- Monolithic system comprising of a stone wool panel, filler and render
- Visible side: acoustic render
- Rear side: high performance membrane (Rockfon Mono Acoustic Direct and Rockfon Mono Acoustic Flecto are supplied with a mineral fleece)

Application Areas

- Office
- Education
- Leisure
- Retail
- Residential

Edge detail	Module size (mm)	Weight (kg/m ²)	Recommended installation System	Recycled content	Cradle to Cradle Certified [®]	A1-A3 Production stage impact (kg CO ₂ eq/m ²)*	A1-C4 Full life cycle impact (kg CO ₂ eq/m ²)*
 TE	1200 x 1200 x 40	6.0	Rockfon [®] System Mono Acoustic™	44%		5.38	6.97
	1800 x 1200 x 40		Rockfon [®] System Mono Acoustic™	44%			
 Direct TE	1200 x 1200 x 25	4.0	Rockfon [®] System Mono Acoustic™	44%		2.93	3.9
 Mono Acoustic FE	1200 x 1200 x 40	6.0	Rockfon [®] System Mono Acoustic™	44%		5.38	6.97
	1800 x 1200 x 40		Rockfon [®] System Mono Acoustic™	44%			
 Mono Acoustic Direct FE	1200 x 1200 x 25	4.0	Rockfon [®] System Mono Acoustic™	44%		2.93	3.9
	1200 x 1200 x 40	Rockfon [®] System Mono Acoustic™					
	1800 x 1200 x 40	6.0	Rockfon [®] System Mono Acoustic™	44%		5.38	6.97

For this product, module size = exact dimension. Panel weight is stated exclusive of filler and render.

Do not install Rockfon Mono Acoustic where a pressure difference can be created between the front and backside of a Rockfon Mono Acoustic ceiling. Rockfon Mono Acoustic Direct and Rockfon Mono Acoustic Flecto can only be installed directly onto an airtight surface.

* For full environmental impact disclosure, see our product EPDs available on rockfon.link/int-epd. Due to differences in calculation methods and scenario assumptions, environmental impact values are generally not directly comparable between manufacturers.



Performance



Sound absorption

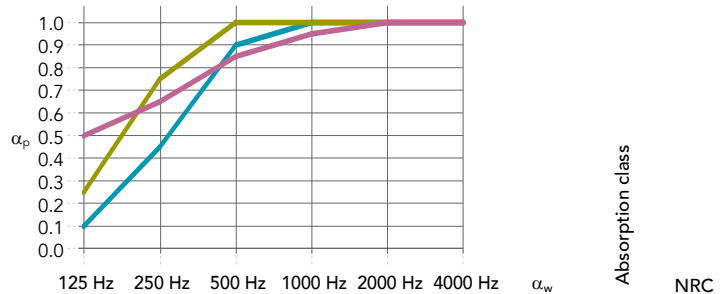
α_w : up to 1.00 (Class A)

* Rockfon Mono Acoustic panels

** Rockfon Mono Acoustic Direct panels

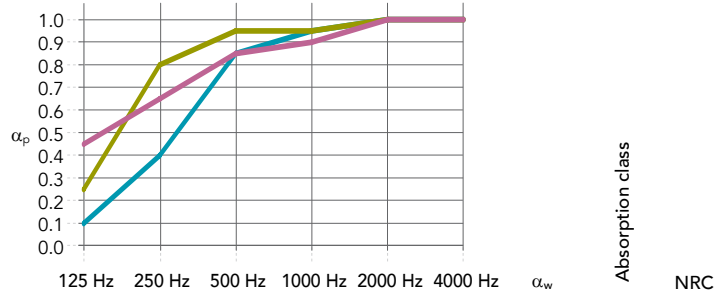
Sound absorption values are valid for flat surfaces.

When conducting an acoustic study, please take into account the services integrated into the ceiling as well as the project layout.



Thickness (mm) /
Suspension (incl. tile - mm)

Thickness (mm) / Suspension (incl. tile - mm)	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	α_w	Absorption class	NRC
Elegant Render (White) 25 / 25 **	0.10	0.45	0.90	1.00	1.00	1.00	0.75	C	0.85
Elegant Render (White) 40 / 40 **	0.25	0.75	1.00	1.00	1.00	1.00	1.00	A	0.95
Elegant Render (White) 40 / 200 *	0.50	0.65	0.85	0.95	1.00	1.00	0.90	A	0.90



Thickness (mm) /
Suspension (incl. tile - mm)

Thickness (mm) / Suspension (incl. tile - mm)	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	α_w	Absorption class	NRC
Elegant Render (Colour) 25 / 25 **	0.10	0.40	0.85	0.95	1.00	1.00	0.70	C	0.80
Elegant Render (Colour) 40 / 40 **	0.25	0.80	0.95	0.95	1.00	1.00	1.00	A	0.95
Elegant Render (Colour) 40 / 200 *	0.45	0.65	0.85	0.90	1.00	1.00	0.90	A	0.80



Reaction to fire

A2-s1,d0
B-s1,d0 (Colour)



Fire resistance

Rockfon Mono Acoustic achieves up to 60 min. in accordance with European test standards and national approvals.
Please contact Rockfon for fire resistance documentation.



Light reflection and light diffusion

87% light reflection (White)
>99% light diffusion (White)
Colour-dependent (Colour)



Humidity and sag resistance

Up to 100% RH.
No visible deflection in high humidity.
Rockfon Mono Acoustic can be used in swimming pools provided it is not exposed to condensation, splashing water or water droplets. The suspension system components must be corrosion resistant and the room and plenum well ventilated.
For more information, please contact Rockfon Technical service.



Cleaning

- Vacuum



Hygiene

Stone wool provides no sustenance to microorganisms



Visual appearance

L value: 94.5 (White)
The whiteness (L value) of the product is tested in accordance with ISO 7724 and measured on a scale from 1 (black) to 100 (white).



Recyclability

Fully recyclable stone wool



Indoor environment

Rockfon ceiling products are classified in Class E1 in accordance with EN 13964 (EN 717-1). Rockfon ceiling products have a very low release of VOCs. A selection of Rockfon products have achieved the following performance levels and labels in indoor air emissions:



Material Health

All materials used in Rockfon products are screened against the list of substances restricted under REACH and do not contain substances of very high concern (SVHC). Rockfon stone wool fibres comply with the safe fibre EU regulation and hold an EUCEB certification.

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<p>Mustard - 51 NCS S 2050-Y10R</p> <p>Light reflection: 37%</p>	<p>Sand - 30 NCS S 2020-Y20R</p> <p>Light reflection: 55%</p>	<p>Stucco - 20 NCS S 1505-Y30R</p> <p>Light reflection: 70%</p>			
<p>Scarlet - 71 NCS S 6030-Y80R</p> <p>Light reflection: 8%</p>	<p>Coral - 76 NCS S 3040-Y90R</p> <p>Light reflection: 22%</p>	<p>Seashell - 75 NCS S 1510-Y60R</p> <p>Light reflection: 56%</p>	<p>Petal - 74 NCS S 1005-Y60R</p> <p>Light reflection: 70%</p>		
<p>Seaweed - 34 NCS S 8005-G20Y</p> <p>Light reflection: 6%</p>	<p>Eucalyptus - 32 NCS S 6020-B90G</p> <p>Light reflection: 12%</p>	<p>Sage - 31 NCS S 3010-G10Y</p> <p>Light reflection: 34%</p>	<p>Mint - 12 NCS S 1005-G10Y</p> <p>Light reflection: 70%</p>		
<p>Space - 49 NCS S 7020-B</p> <p>Light reflection: 5%</p>	<p>Storm - 48 NCS S 6020-R90B</p> <p>Light reflection: 55%</p>	<p>Azure - 47 NCS S 3020-B</p> <p>Light reflection: 34%</p>	<p>Fresh - 42 NCS S 2010-B10G</p> <p>Light reflection: 51%</p>		
<p>Earth - 25 NCS S 5010-Y50R</p> <p>Light reflection: 22%</p>	<p>Clay - 26 NCS S 5005-G80Y</p> <p>Light reflection: 22%</p>	<p>Linen - 22 NCS S 4005-Y50R</p> <p>Light reflection: 29%</p>	<p>Sandalwood - 13 NCS S 2010-Y60R</p> <p>Light reflection: 49%</p>	<p>Chalk - 21 NCS S 2005-Y40R</p> <p>Light reflection: 51%</p>	
<p>Ebony - 28 NCS S 8505-Y80R</p> <p>Light reflection: 4%</p>	<p>Cork - 24 NCS S 4010-Y30R</p> <p>Light reflection: 30%</p>	<p>Hemp - 23 NCS S 3005-Y20R</p> <p>Light reflection: 45%</p>			
<p>Iron - 18 NCS S 7502-B</p> <p>Light reflection: 7%</p>	<p>Concrete - 06 NCS S 6000-N</p> <p>Light reflection: 16%</p>	<p>Mastic - 17 NCS S 4000-N</p> <p>Light reflection: 33%</p>	<p>Zinc - 05 NCS S 4005-R50B</p> <p>Light reflection: 33%</p>		
<p>Charcoal - 09 NCS S 8500-N</p> <p>Light reflection: 4%</p>	<p>Anthracite - 08 NCS S 7010-R90B</p> <p>Light reflection: 7%</p>	<p>Gravel - 03 NCS S 3502-B</p> <p>Light reflection: 34%</p>	<p>Plaster - 02 NCS S 2005-R80B</p> <p>Light reflection: 58%</p>	<p>Stone - 01 NCS S 2000-N</p> <p>Light reflection: 55%</p>	<p>Moon - 10 NCS S 1005-R80B</p> <p>Light reflection: 75%</p>

NCS codes are the closest colour match. Due to the nature of the spray application and texture of Mono Acoustic Elegant Render, the surface appearance might - in particular light conditions - deviate from printed colours. Samples of the colour rendered surfaces are available upon request. Light reflection values are indicative values and are subject to the way of render application and texture of the surface. Contact us for more information.

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