

DATASHEET

# Rockfon Sonar® dB 46



**Sounds Beautiful**

# Rockfon Sonar® dB 46

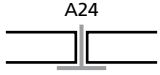

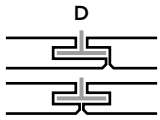

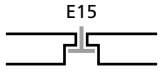

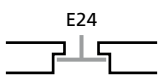

- Combines enhanced room-to-room sound insulation as well as a high level of sound absorption (Class A) in areas where privacy and acoustical comfort is important
- Made from a 50mm dual layer stone wool core with a high performance membrane sandwich construction which reduces the transmission of noise from room-to-room
- Wide range of dimensions in concealed, semi-concealed and visible grid options
- Light weight sound insulating tile, easy to install and clean with a vacuum or damp cloth

## Product Description

- Dual layer stone wool tile with inner high performance membrane
- Visible side: micro-textured white painted fleece
- Rear side: back fleece
- Durable painted edges

## Application Areas

- Office
- Healthcare
- Education

Edge detail	Module size (mm)	Approximate weight (kg/m <sup>2</sup> )	Recommended installation System	Recycled content	Cradle to Cradle Certified®	A1-A3 Production stage impact (kg CO <sub>2</sub> eq/m <sup>2</sup> )*	A1-C4 Full life cycle impact (kg CO <sub>2</sub> eq/m <sup>2</sup> )*
 A24	600 x 600 x 50	7.9	Rockfon® System T24 A™	39%		7.52	9.89
	1200 x 600 x 50		Rockfon® System T24 A™				
 D	600 x 600 x 50	7.9	Rockfon® System T24 A™	39%		7.52	9.89
 E15	600 x 600 x 50	7.9	Rockfon® System T15 E™	39%		7.52	9.89
	1200 x 600 x 50		Rockfon® System Ultraline E™				
			Rockfon® System Ultraline E™				
 E24	600 x 600 x 50	7.9	Rockfon® System T24 E™	39%		7.52	9.89
	1200 x 600 x 50		Rockfon® System T24 E™				

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



## Performance



**Sound absorption**  
 $\alpha_w$ : 0.90 (Class A)

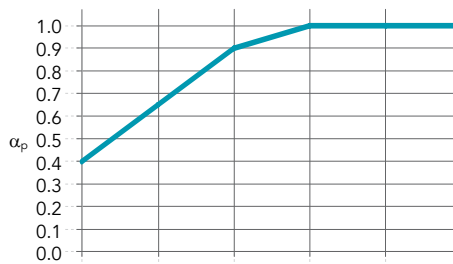


**Direct sound insulation**  
 $R_w$  = 25 dB



**Room to room sound insulation**  
 $D_{n,f,w}$  = 46 dB

The sound insulation properties ( $R_w$ ,  $D_{n,f,w}$ ) presented in the datasheet represent A-edge tiles.



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

Thickness (mm) / Suspension (incl. tile - mm)	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	$\alpha_w$	Absorption class	NRC
50 / 200	0.40	0.65	0.90	1.00	1.00	1.00	0.90	A	0.90



**Reaction to fire**  
 A2-s1,d0



**Light reflection**  
 85%



**Humidity and sag resistance**  
 Up to 100% RH.  
 No visible deflection in high humidity  
 C/ON



**Cleaning**

- Vacuum
- Damp cloth
- Chemical resistance: resistant to diluted solutions of ammonia, chlorine and hydrogen peroxide



**Hygiene**  
 Stone wool provides no sustenance to microorganisms



**Thermal insulation**  
 Thermal conductivity:  $\lambda_D$  = 40 mW/mK  
 Thermal resistance:  $R$  = 1,25 m<sup>2</sup>K/W



**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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