

DATASHEET

Rockfon® Samson



Sounds Beautiful

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- Impact-resistant white woven surface, ideal for high activity areas
- High sound absorption (Class A) and the highest fire safety (Class A1)
- Basic range of dimensions and edges

Product Description

- Stone wool tile
- Visible side: Woven
- Rear side: back fleece
- Painted edges

Application Areas

- Office
- Education
- Industry
- Leisure

Edge detail	Module size (mm)	Weight (kg/m ²)	Recommended installation system	Recycled content	A1-A3 Production stage impact (kg CO ₂ eq/m ²)*	A1-C4 Full life cycle impact (kg CO ₂ eq/m ²)*
A24 	600 x 600 x 40	4.1	Rockfon® System T24 A	39%	3.47	4.68
	1200 x 600 x 40		Rockfon® System T24 A			
	1800 x 600 x 40		Rockfon® System T24 A			
	2400 x 600 x 40		Rockfon® System T24 A			
	1200 x 1200 x 40		Rockfon® System T24 A			
AEX 	1166 x 1166 x 40	4.1	Rockfon® System T24 A	39%	3.47	4.68

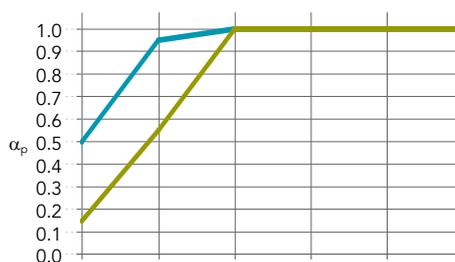
* For full environmental impact disclosure, see our product EPDs available on rockfon.link/int-epd. Due to differences in calculation methods and scenario assumptions, environmental impact values are generally not directly comparable between manufacturers.



Performance



Sound absorption
 α_w : up to 1.00 (Class A)



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

	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	α_w	Absorption class	NRC
40 / 225	0.50	0.95	1.00	1.00	1.00	1.00	1.00	A	1.05
40 / 40	0.15	0.55	1.00	1.00	1.00	1.00	0.85	B	0.90



Reaction to fire
 A1



Light reflection
 72%



Humidity and sag resistance
 Up to 100% RH.
 No visible deflection in high humidity.
 C/0N



Cleaning
 - Vacuum



Impact resistance
 40 mm: Class 1A (Rockfon System Olympia^{Plus} A Impact 1A)
 40 mm: Class 2A (Rockfon System T24 A Impact 2A/3A)

For direct mounting and depending on the degree of impact you can choose between two systems:
 40mm: Class 1A (Rockfon System HAT A with 1,0 mm thick HAT profile). For light impact applications you can use HAT profiles with a steel thickness of 0,7 mm providing no impact class.

Tested in accordance with EN13964-Annex D. Impact resistance classifications confirm the system's capability to withstand incidental or occasional impact. The woven surface of Rockfon Samson provides enhanced resistance to perforation, tested in accordance with NF P 08-301.



Hygiene
 Stone wool provides no sustenance to microorganisms



Thermal insulation
 Thermal conductivity:
 $\lambda_D = 37 \text{ mW/mK}$



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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