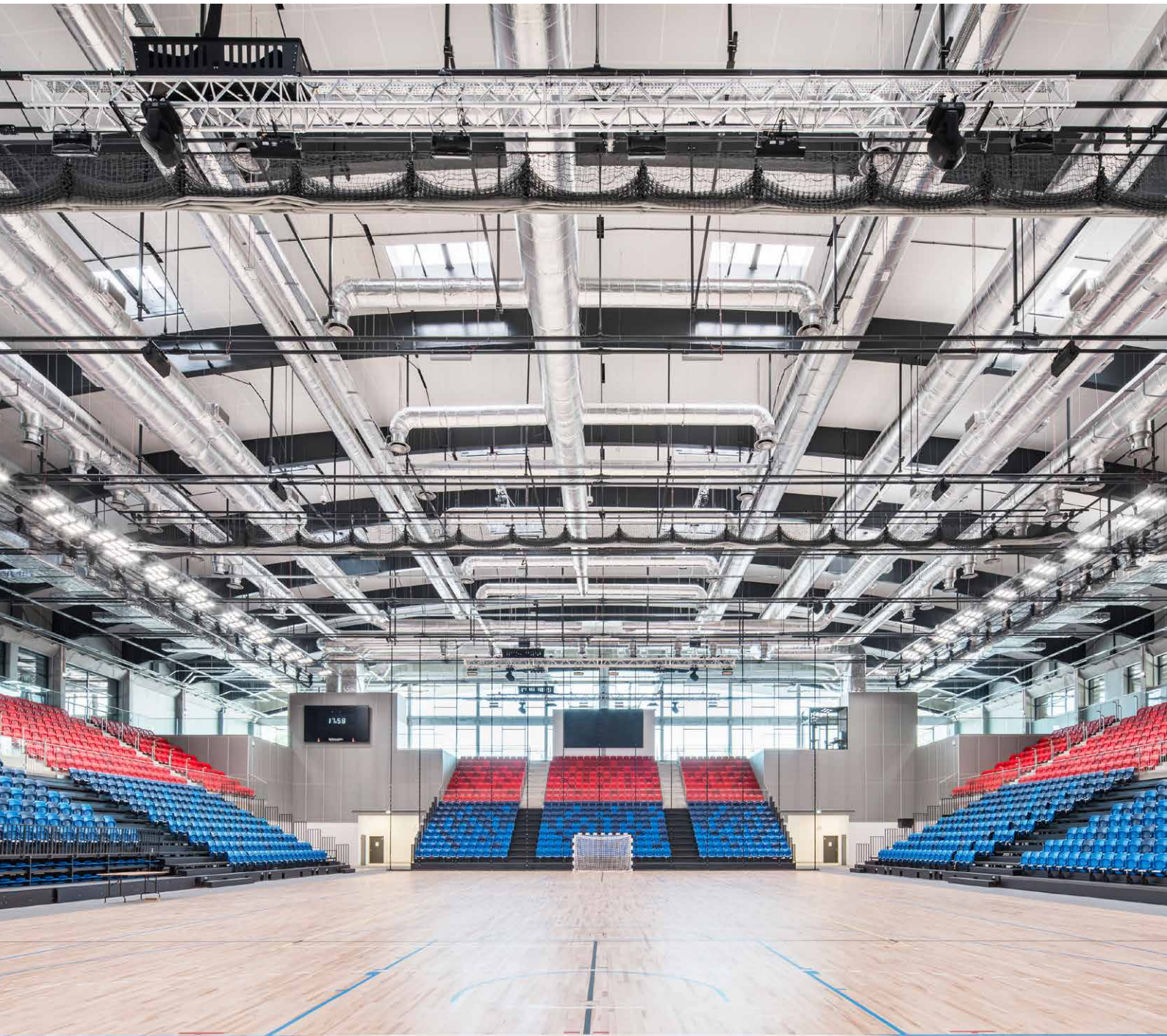


DATASHEET

Rockfon® Samson



Sounds Beautiful

Rockfon® Samson

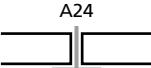

- Highly impact-resistant white woven surface, ideal for high activity level areas such as schools and sports facilities
- Excellent sound absorption for noisy and reverberant areas
- Meets the requirements of maximum impact resistance (Class 1A) when installed in Rockfon System Olympia^{Plus} A Impact 1A and Class 2A when installed in Rockfon System T24 A Impact 2A/3A). Rockfon System Olympia^{Plus} A Impact 1A meets the requirements of DIN18032 Part 3

Product Description

- Stone wool tile (40mm)
- Visible side: durable woven surface
- Rear side: back fleece
- Painted edges

Application Areas

- Education
- Leisure

Edge detail	Module size (mm)	Weight (kg/m ²)	MS / MS easy access (mm)	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	50 / 200	Rockfon® System T24 A™	39%	3.47	4.68
	1200 x 600 x 40		50 / 200	Rockfon® System HAT A™			
			50 / 200	Rockfon® System T24 A, E ECR™			
			50 / 200	Rockfon® System T24 A™			
			50 / 200	Rockfon® System HAT A™			
			50 / 200	Rockfon® System T24 A, E ECR™			
			50 / 200	Rockfon® System T24 A Impact 2A/3A™			
			50 / 200	Rockfon® System T24 A™			
			50 / 200	Rockfon® System HAT A™			
			50 / 200	Rockfon® System T24 A, E ECR™			
			50 / 200	Rockfon® System T24 A™			
	1800 x 600 x 40		50 / 200	Rockfon® System HAT A™			
	2400 x 600 x 40		50 / 200	Rockfon® System T24 A™			
	50 / 200		Rockfon® System HAT A™				
50 / 200	Rockfon® System T24 A, E ECR™						
1200 x 1200 x 40	50 / 200	Rockfon® System T24 A™					
50 / 200	Rockfon® System HAT A™						
50 / 200	Rockfon® System T24 A, E ECR™						
 AEX	1166 x 1166 x 40	4.1	180 / 180	Rockfon® System Olympia Plus A Impact 1A™	39%	3.47	4.68

MS = Minimum Suspension

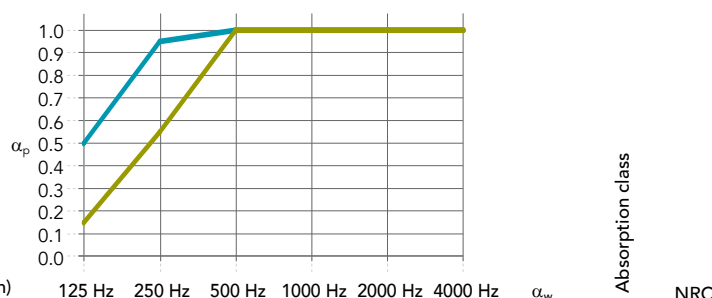
* For full environmental impact disclosure, see our product EPDs available on rockfon.link/uk-epd. Due to differences in calculation methods and scenario assumptions, environmental impact values are generally not directly comparable between manufacturers.



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



Fire protection
 The fire resistant properties of stone wool ensure Rockfon ceiling tiles provide fire protection in construction. The fire protection properties of Rockfon ceilings have been tested and classified in accordance with European norm EN 13501-2 and/or national norms depending on requirements in national building codes. Some sizes and edge details of Rockfon Samson can be used with various Chicago Metallic grids and Rockfon systems to create a 60 minutes fire protecting ceiling in accordance with BS 476 Part 21 and Part 23. They can also be used to create a 30 minutes fire protecting membrane ceiling (integrity only) in accordance with BS 476 Part 22.



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.



Light reflection
 72%



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



Recyclability
 Fully recyclable stone wool



Cleaning
 - Vacuum



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:



Hygiene
 Stone wool provides no sustenance to microorganisms



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



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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