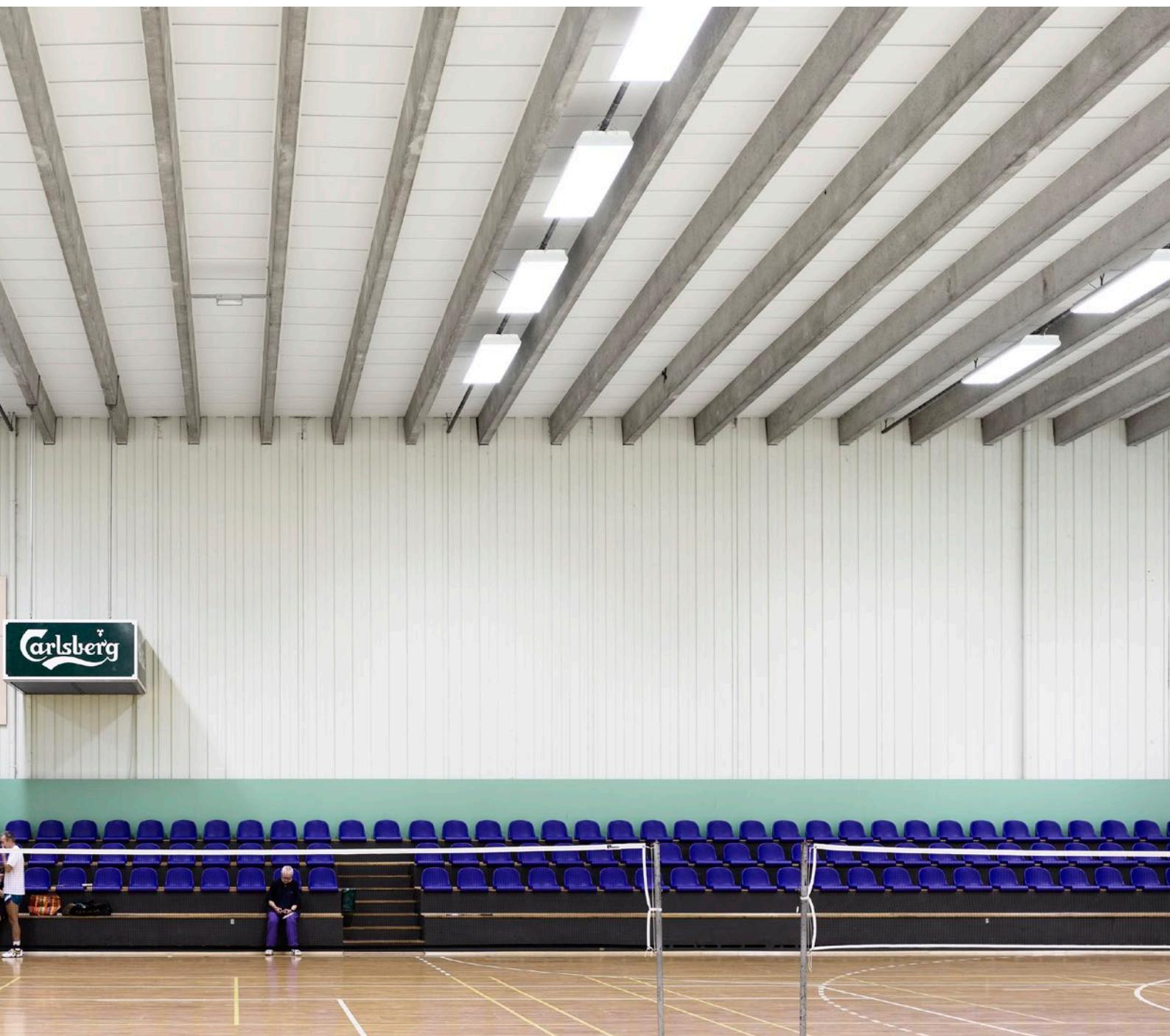


DATASHEET

## **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<sup>Plus</sup> A Impact 1A and Class 2A when installed in Rockfon System T24 A Impact 2A/3A). Rockfon System Olympia<sup>Plus</sup> 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 <sup>2</sup> )	MS / MS easy access (mm)	Recommended installation System
 A24	600 x 600 x 40	4.1	50 / 200	Rockfon® System T24 A™
		4.1	50 / 200	Rockfon® System HAT A™
		4.1	50 / 200	Rockfon® System T24 A, E ECR™
	1200 x 600 x 40	4.1	50 / 200	Rockfon® System T24 A™
		4.1	50 / 200	Rockfon® System HAT A™
		4.1	50 / 200	Rockfon® System T24 A, E ECR™
		4.1	50 / 200	Rockfon® System T24 A Impact 2A/3A™
	1800 x 600 x 40	4.1	50 / 200	Rockfon® System T24 A™
		4.1	50 / 200	Rockfon® System HAT A™
		4.1	50 / 200	Rockfon® System T24 A, E ECR™
	2400 x 600 x 40	4.1	50 / 200	Rockfon® System T24 A™
		4.1	50 / 200	Rockfon® System HAT A™
		4.1	50 / 200	Rockfon® System T24 A, E ECR™
		4.1	50 / 200	Rockfon® System T24 A™
 AEX	1200 x 1200 x 40	4.1	50 / 200	Rockfon® System HAT A™
		4.1	50 / 200	Rockfon® System T24 A, E ECR™
	1166 x 1166 x 40	4.1	180 / 180	Rockfon® System Olympia Plus A Impact 1A™

MS = Minimum Suspension

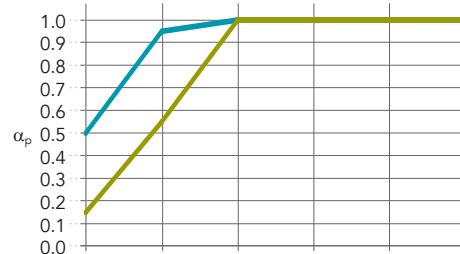


## Performance



### Sound absorption

$\alpha_w$ : up to 1.00 (Class A)



Thickness (mm) / Suspension (incl. tile - mm)	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	$\alpha_w$	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.



### Light reflection

72%



### Humidity and sag resistance

Up to 100% RH.  
No visible deflection in high humidity  
C/O/N



### Cleaning

- Vacuum



### Hygiene

Stone wool provides no sustenance to microorganisms



### Environment

Fully recyclable stone wool  
The recycled content of Rockfon products is between 29% and 64% according to ISO 14021.  
Rockfon acoustic solutions are Cradle to Cradle Certified® Silver and Bronze (depending on product type).



### Carbon footprint

Cradle-to-Gate 4.02 kg of CO<sub>2</sub> eq. (based on third party verified EPD)  
Cradle-to-Grave 5.38 kg of CO<sub>2</sub> eq. (based on third party verified EPD)



### Indoor environment

A selection of Rockfon products have been awarded the Finnish M1 emission classification for building materials and the Danish Indoor Climate Label for low emission products



### Thermal insulation

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



### Impact resistance

40 mm: Class 1A (Rockfon System Olympia<sup>Plus</sup> A Impact 1A)  
40 mm: Class 2A (Rockfon System T24 A Impact 2A/3A)  
Tested in accordance with EN13964-Annex D. Impact resistance classifications confirm the system's capability to withstand incidental or occasional impact.  
Directly mounted, Rockfon Samson is not recommended for use in areas which are subjected to continuous high levels of impact.  
The woven surface of Rockfon Samson provides enhanced resistance to perforation, tested in accordance with NF P 08-301.



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