Samson

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activeceilings®

ROCKWOOL Rockfon®
ACTIVATE YOUR CEILING

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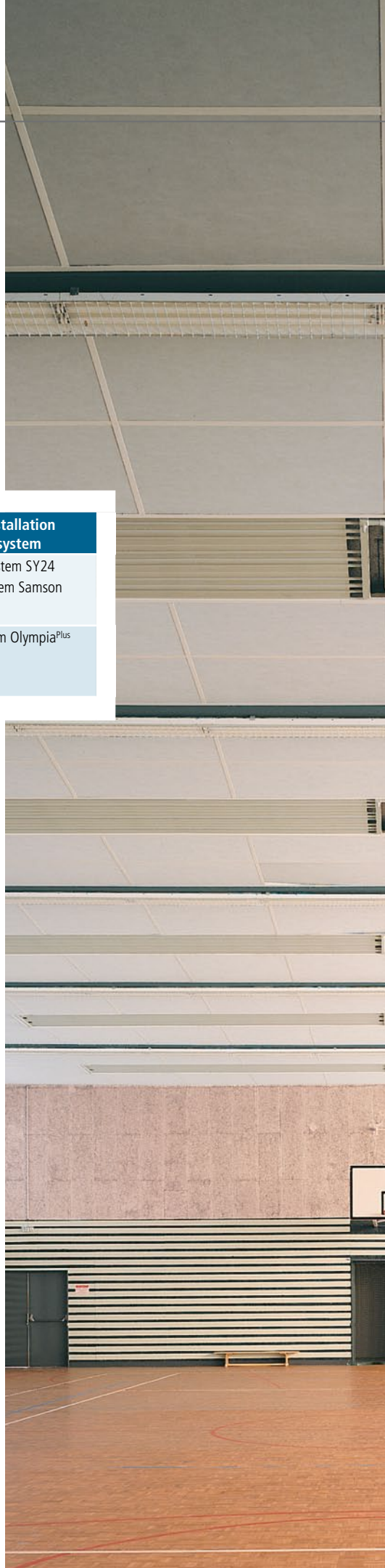
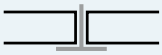
Excellent sound absorption for noisy areas, coupled with high impact resistance makes Samson suitable for high activity level areas such as schools and sports halls.

The sound absorption level is exceptional thereby contributing to a good acoustic environment in what typically can be noisy or echoey application areas. For sports ceilings Samson should be installed in OlympiaPlus for maximum impact resistance (Class 1A).

In areas where the requirement of resistance is lower (Class 2A), Samson can also be installed using a T24 grid and CMC clips 817. Directly mounted in system Samson, Samson also meets the requirements for 'impact resistance' as defined in DIN18032 part 3.



ASSORTMENT

Edge detail	Module size (mm)	Weight (kg/m²)	MS*	Installation system
A24 	600 x 600 x 40	3.5	150	System SY24
	1200 x 600 x 40	3.5	150	System Samson
AEX 	1166 x 1166 x 40	3.5	150	System Olympia[Plus]

** MS - Minimum Suspension*

SOUND ABSORPTION

Sound absorption has been measured in accordance with ISO 354. Sound absorption data α_p, α_w and absorption class are calculated in accordance with ISO 11654. Noise Reduction Coefficient (NRC) is calculated in accordance with ASTM C423.

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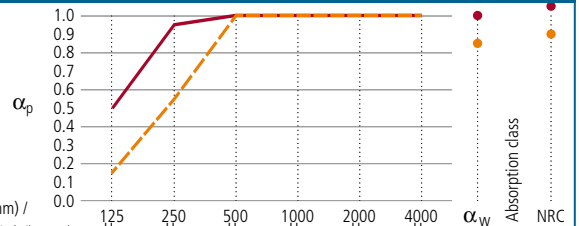
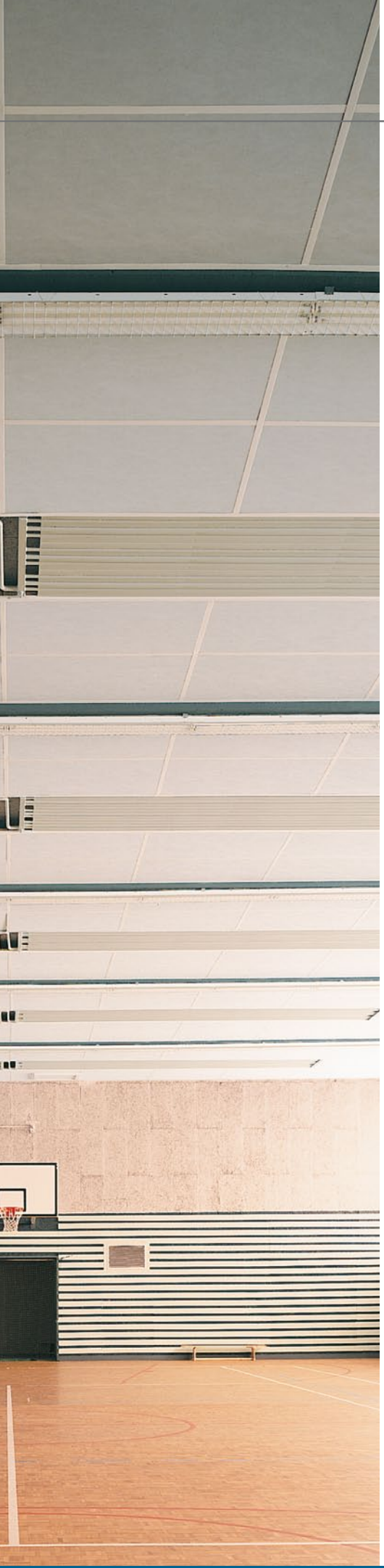


Thickness (mm) / Suspension (incl. tile – mm)	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	α_w	Absorption class	NRC
40 / 225	0.50	0.95	1.00	1.00	1.00	1.00	1.00	A	1.05
40 / 40	0.15	0.55	1.00	1.00	1.00	1.00	0.85	B	0.90



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FIRE PERFORMANCE

General: Rockfon ceiling tiles have a core of stone wool. Stone wool is non-combustible with a melting point of more than 1000°C.

Reaction to fire: Class A1 in accordance with EN 13501-1.

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.

IMPACT RESISTANCE

Impact resistance performance of Samson, has been tested by a certified laboratory in accordance with EN13964-Annex D. Impact resistance classifications confirm the system´s capability to withstand incidental or occasional impact. It does not confirm the system's ability to maintain consistent visual appearance if impacted on a regular basis. Samson reaches the below impact resistance classes in combination with the following installation systems:

Class	Edge	Dimensions (mm)	Installation system
1A	AEX	1166 x 1166 x 40	Olympia^{plus}
2A	A24	1200 x 600 x 40	SY24 + CMC clips 817

Directly mounted in the system Samson, Samson also meets the requirements for 'impact resistance' defined by the DIN 18032 Part 3.

The strong woven surface of Samson is providing good resistance to perforation.
Samson has been tested according to the NF P 08-301.

HUMIDITY RESISTANCE AND DIMENSIONAL STABILITY (FLEXURAL TENSILE STRENGTH)

Rockfon ceiling tiles are dimensionally stable even at high humidity levels of up to 100% RH and can be installed at all temperatures ranging from 0°C to 40°C.
No acclimatisation is necessary.

Samson is predominantly classified as Class 1/C/0N in accordance with EN 13964. However certain module sizes (width above 700 mm) are Class 2/C/0N.

LIGHT REFLECTION

White, 72% diffuse light reflection in accordance with ISO 7724-2.

THERMAL CONDUCTIVITY

Samson with a thickness equal to and exceeding 30 mm has been measured in accordance with EN 12667 and has obtained the following value λ_D = 37 mW/mK.

Thermal resistance: R = 1,05 m^2 k/W

HYGIENE

Stone wool has no nutritional value and therefore it provides no sustenance to harmful micro-organisms.

CLEANING

The surface can be vacuum-cleaned with a soft brush attachment. The surface can also be cleaned once a week using a sponge or cloth and warm water (max. 40°C) with a slightly alkaline detergent (max. pH 10) without alcohol, ammonia or chlorine. Cleaning with a damp sponge or cloth may render the surface slightly shinier and we therefore recommend cleaning the whole surface evenly for best results.

AFTERCARE

The tiles can be post factory treated with a re-finishing paint, e.g. a PVA water based latex paint. The paint should be applied with an airless spray in a low amount (no brushing or rolling). Rockfon advises the use of the smallest amount of paint in order to minimise reduction in sound absorption. The surface of the tiles must be clean and dry and the existing paint surface must be firmly adhered to the tile prior to refinishing. Heavily discoloured tiles should be replaced.

Disclaimer: The application of refinishing paint will influence acoustic properties and fire safety performance. Rockfon takes no responsibility for these properties after treatment.

ENVIRONMENT

A representative selection of Rockfon products have been awarded the Danish Indoor Climate Label and the Finnish Indoor Climate Label (M1).

Samson is recyclable.

ACTIVATE YOUR CEILING

Rockfon® develop intelligent ceiling solutions which actively address a number of important issues in modern buildings and renovation projects.

Rockfon products are known for their design, aesthetics and ease of installation; coupled with the key performance features of superior fire resistance and acoustics.

This ensures that our ceiling solutions are among the highest performing, most cost effective and time efficient in today's interiors market.

The comprehensive ceiling solution portfolio from Rockfon ensures that our customers are able to actively add value to the construction process, by ultimately creating superior interior environments.

That is why we say "ACTIVATE YOUR CEILING".

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