

Samson



Hedehusene Produkthandel
AKTIESELSKAB
HOVEDGADEN 610 • TLF. 42 16 01 11

Top Revision
Bjørn Pedersen • Registreret Revisor
Vesteråsvej 40 • 2040 Hedehusene
TEL. 42 16 07 96 • Telefax 42 16 08 96

Hans Rasmussen A/S
• TØMRER
• SNEDKER
• GLARMESTER
46 56 05 25 • 46 56 45 05

ALLE TAG
UNDER SAMME TAG
TØMRER- & SNEDKERFIRMA
Hjort
Sletteager 66
Hedehusene
46 56 31 87

John Jensen A/S
VVS INSTALLATIONER
Hedehusene: 4656 0086
Taastrup: 4399 8586
www.jj-vs.dk

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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 RockLink 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 Rockfon System Samson or RockLink 24 grid with butterfly clips. Directly mounted in System Samson, Samson is recommended for use in areas which are unlikely to be subjected to continuous high levels of impact.

ASSORTMENT

Edge detail	Module size (mm)	Product code	Weight (kg/m ²)	MS* / MS* easy access (mm)	Installation system
 A24	600 x 600 x 40	6911-0005	3.5	50 / 200	Rockfon System Samson
	1200 x 600 x 40	6911-0004	3.5	50 / 200	RockLink 24**
	1800 x 600 x 40	6911-0046	3.5	50 / 200	RockLink 24 + Butterfly Clips
	2400 x 600 x 40	6911-1001	3.5	50 / 200	
 AEX	1200 x 1200 x 40	6911-0006	3.5	50 / 200	
	1166 x 1166 x 40	6911-1166	3.5	180 / 180	RockLink OlympiaPlus

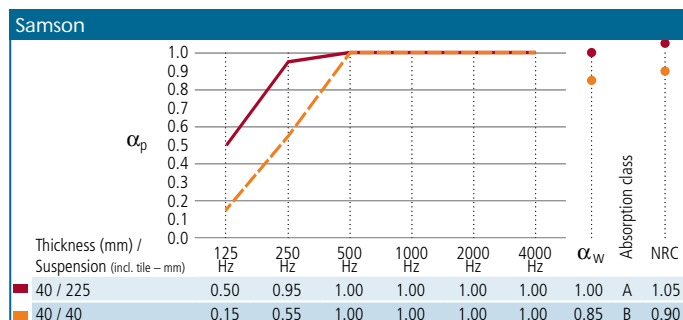
* MS - Minimum Suspension

** Also available in an Enhanced Corrosion Resistant (ECR) format for use in harsh environments e.g. swimming pool halls, kitchens etc.



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.





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. Some sizes and edge details of Samson can be used with various RockLink grid 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

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	RockLink Olympiaplus
2A	A24	1200 x 600 x 40	RockLink 24 + Butterfly clip 817

Directly mounted in system Samson, Samson is recommended for use in areas which are unlikely to be subjected to continuous high levels of impact. The strong woven surface of Samson provides 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 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/ON in accordance with BS EN 13964. However, certain module sizes (width above 700mm) are Class 2/C/ON.



LIGHT REFLECTION

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



THERMAL CONDUCTIVITY

Samson with a thickness equal to and exceeding 30mm has been measured in accordance with EN 12667 and has obtained the following value: $\lambda_D = 37 \text{ mW/mK}$.

Thermal resistance: $R = 1.05 \text{ m}^2 \text{ K/W}$.



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.



ENVIRONMENT

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

Samson is recyclable.



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