

# Scholar

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Complying with BB93 Acoustics for Schools and having impact resistant reinforced edges, Scholar is a tough, durable, fire safe and good whole life cost ceiling tile.

Rockfon Scholar combines an attractive white painted finish with good impact resistance and specially covered strong edges which remain intact even when tiles are removed and reinstalled regularly. A tough concealed reinforcing mesh applied between the 100% stone wool and the finished surface acts as a resilient impact resistant membrane.

Rockfon Scholar is available in long planks and large square modules, thereby not only reducing the number of grid components - saving time and money on installation - but also increasing the scope for more aesthetically pleasing and less traditional suspended ceiling appearance.

The use of Rockfon Scholar can enhance the performance and durability of school

application areas and can contribute to compliance with the needs of AD.E. and Building Bulletin 93, Acoustics for Schools. Scholar's high sound absorption ensures appropriate reverberation times (RT) in many areas and the speech intelligibility and more onerous requirements of open plan and hearing impaired teaching spaces. Scholar ceilings make a significant contribution to acoustic comfort in education sector spaces and the creation of 'all inclusive', flexible use, future proof buildings.

Rockfon Scholar can be installed in RockLink exposed grid systems. Hold down clips can be fixed to the rear side of the tiles in order to keep them in place in the event of minor impacts.



## ASSORTMENT

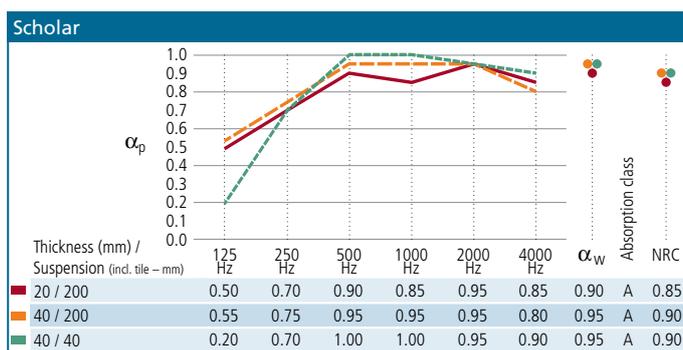
Edge detail	Module size (mm)	Product code	Weight (kg/m <sup>2</sup> )	MS* / MS* easy access (mm)	Installation system
	600 x 600 x 20	6911-0009	2.4	50 / 100	RockLink 24
	1200 x 600 x 20	6911-0003	2.4	50 / 100	RockLink 24 FasTrac
	1800 x 600 x 20	6911-1011	2.4	50 / 100	
	2100 x 600 x 20	6911-1014	2.4	50 / 100	
	2400 x 600 x 20	6911-1019	2.4	50 / 100	
	600 x 600 x 40	6911-0013	3.5	50 / 200	
	1200 x 600 x 40	6911-0008	3.5	50 / 200	
	1800 x 600 x 40	6911-0050	3.5	50 / 200	
	2400 x 600 x 40	6911-0007	3.5	50 / 200	

\* MS - Minimum Suspension



## SOUND ABSORPTION

Sound absorption has been measured in accordance with ISO 354. Sound absorption data  $\alpha_p$ ,  $\alpha_w$  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 Scholar 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.



### 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.

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



### LIGHT REFLECTION

White, 86% diffuse light reflection in accordance with ISO 7724-2.



### THERMAL CONDUCTIVITY

Scholar 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:**  $R = 1.05 \text{ m}^2 \text{ K/W}$  (40 mm tile).



### 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 Indoor Climate Label and the Finnish Indoor Climate Label (M1). Scholar is recyclable.