

Rockfon Scholar

Feature Line

5.2.06

07.02 / GB
CI / SFB 35



Rockfon Scholar

Rockfon Scholar combines an attractive white surface finish with good impact resistance and strong edges. A tough concealed reinforcing mesh applied between the stone wool and the finished surface acts as a resilient impact resistant membrane – this combined with the strong latex covered edges ensures that Scholar is a tough and durable, fire safe acoustic ceiling tile.

Rockfon Scholar has a pleasing smooth, white-painted micro structured surface with excellent built-in sound absorbing acoustic properties. This combination of properties makes Scholar ideally suited for use within Education Sector applications.

The use of Rockfon Scholar can enhance the performance and durability of school application areas and can contribute to compliance with DfES Building Bulletin 87, Building Bulletin 93, and therefore Building Regulations.

Rockfon Scholar can be installed in exposed grid ceiling systems or directly on walls as an impact resistant acoustic wall absorber. When installing Rockfon Scholar in an exposed grid ceiling system, 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. When using Scholar in areas that require a higher level of impact, please contact Rockfon for additional installation advice.

Typical application areas are shown in the application area guide.

Rockfon Scholar possesses excellent fire resisting properties and is totally moisture resistant, non hygroscopic and dimensionally stable upto 100% relative humidity at up to 40°C.



Assortment					
Edge detail	Module size (mm)	Thickness (mm)	Weight (kg/m ²)	Demountable	Installation system
	600 x 600	20	2.2	Yes	RockLink 24 FasTrac, see 6.1.01 RockLink 24, see 6.1.02
	1200 x 600	20	2.2	Yes	
	1800 x 600	20	2.2	Yes	
	2100 x 600*)	20	2.2	Yes	
	2400 x 600*)	20	2.2	Yes	
	600 x 600	40	4.0	Yes	
	1200 x 600	40	4.0	Yes	
	2400 x 600*)	40	4.0	Yes	

*) Short sides are supplied without edge paint. Therefore, if required, edge paint should be site applied before tile installation.

Application Area Guide					
Edge Detail	A24				
	600 x 600	1200 x 600	1800 x 600	2100 x 600	2400 x 600
Module size (mm)					
Corridor 1) 2) 3)	///	///	///	///	///
Classroom 1) 2) 3)	///	///	///	///	///
Kindergarten, Children's Day Care nursery 1) 2) 3)	///	///	///	///	///
Canteen / Cafeteria 2) 3)	///	///	///	///	///
Activity room, e.g. CDT, workshop, fitness etc. 2) 3)	///	///	///	///	///
Laboratory 3)	///	///	///	///	///
Assembly Hall 2) 3)	///	///	///	///	///
Swimming pool 3)	///	///	///	///	///

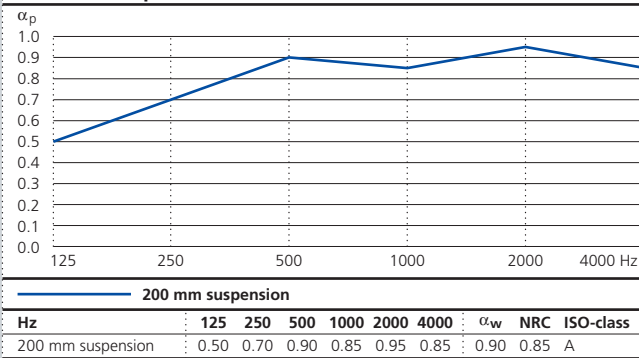
Floor type
1) Carpet 2) Parquet 3) Stone / linoleum

The Application area guide shows some of the most suitable Scholar applications and design options.

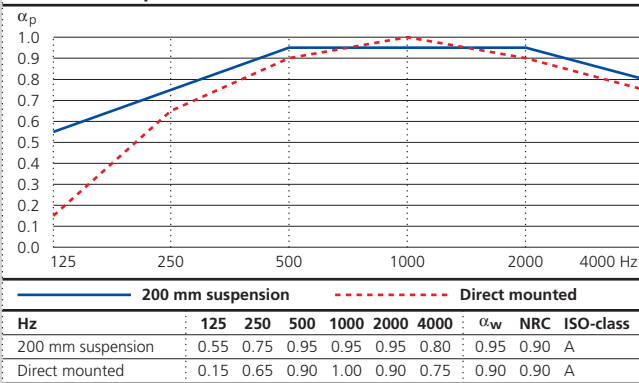
/// indicates that this format is ideally suited for this application.

Acoustics

Sound absorption, Scholar A24 (20 mm)



Sound absorption, Scholar A24 (40 mm)



Sound absorption

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

Technical performance



Fire performance

General

Rockfon Scholar is made from 100% pure stone wool which can withstand more than 1000°C for more than 120 minutes without melting.

Reaction to fire

Class 0 in accordance with Building Regulations. Class 1 in accordance with BS 476 Part 7.

Resistance to fire

60 minutes fire protection in accordance with BS 476 Parts 21 and 23. 30 minutes fire resistance (integrity only) in accordance with BS 476 Part 22.



Thermal conductivity

$\lambda_{10} = 0.034 \text{ W/mK}$.



Impact resistance

Rockfon Scholar achieves a high level of impact resistance.



Finishing treatment

The products can be treated with Rockfon acoustic paint according to instructions. Use Rockfon edge paint for finishing treatment, if necessary.



Light reflection

89% diffuse light reflection according to DIN 5036 Part 3.



Humidity resistance

Resists up to 100% relative humidity at 40°C, providing 100% relative stability.



Demounting

Rockfon Scholar is easy to demount.



Hygiene

Stone wool is an inorganic material and so is not attacked by rot, fungus or bacteria.



Cleaning

The Rockfon Scholar surface is easily cleaned, according to the guideline below. Use alkaline cleaning agent and do not use high concentration spirit, chlorine or sal ammoniac.

Cleaning	
Method	Times/year
Vacuum cleaning 1)	52
Wet cloth with soap 2)	12

1) Vacuum clean with a soft brush attachment
2) Soap solutions should be 1:100



Handling/storage

Rockfon products are light-weight and easily handled. Due to their inertness and 100% dimensional stability no special storage or handling requirements are necessary. Please see additional handling/storage guidelines for detailed information. Rockfon products can be installed at an early stage in the building program due to the inherent stability of the 100% stone wool.



Specification

The ceiling shall comprise Rockfon Scholar tiles with edge detail A24, modular dimensions _____ x _____ mm and thickness _____ mm. Light reflection shall be 89% and the tiles shall be class 0 and have an α_w of _____. They shall be installed according to Rockfon installation system _____ sheet no. _____.

NBS K40 specification texts are available either from NBS Plus on 0191 222 8533 or direct from Rockfon on 01656 864696 or www.rockfon.co.uk "Spec Generator".



The Indoor Climate Label

All Rockfon products have obtained best classification, Class 10 Regarding emission time for gas emission, which means the emission time is less than 10 days from the time installation is finished. Rockfon products have also obtained "low particle emission" Classification, the best class According to The Indoor Climate Label standard.

Measurements are conducted by Danish Technological Institute.

Environment

Rockfon products are primarily based on the natural materials – stone, chalk and clay. They are Produced in an environmentally friendly process and can be recycled.

Rockfon ceiling tiles are manufactured from stone wool fibres which fulfil the EU directive 97/69 note Q.

Rockfon products are environmentally certified according to ISO 14001 and registered with the EU's voluntary EMAS arrangement regarding environmental management and audits.

Service

Rockfon has many years of experience in ceiling design and acoustic regulation. We are happy to place our knowledge at your disposal – by documentation and personal service, right from the planning stage to the finished building.

Call our customer service and technical service departments for advice: 01656 864696.

Rockfon Limited

Pencoed, Bridgend
Mid Glamorgan, CF35 6NY
Tel. 01656 864696
Fax 01656 864549
www.rockfon.co.uk