

# Hygienic

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Hygienic Plus

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Developed to meet the exacting standards of health, electronics and food sectors, the durable Hygienic range can withstand cleaning by pressure washing.


The ceiling tiles in the Hygienic range have been developed to meet the most stringent demands on hygiene and cleanability. Coupled with longevity, durability and high sound absorption, these high performance tiles are suitable for clean room type environments.

All Hygienic products have a durable and special white painted surface, incorporating a fungicide to further enhance the resistance

to the growth of micro-organisms and ensure regular cleanability. The 100% stone wool core does not contain any organic nutrients and cannot be attacked by rot or fungi.

All products in the Hygienic range will withstand frequent cleaning and will not continue dripping after the cleaning process has taken place, thus minimising downtime. Hygienic will withstand frequent low or high-pressure washing.

## Hygienic

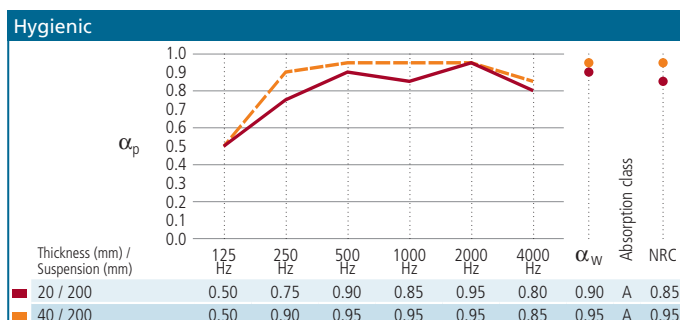
Edge detail	Module size (mm)	Weight (kg/m <sup>2</sup> )	MS* easy access (mm)	Installation system
	600 x 600 x 20	2.4	100	System SY24XL
	1200 x 600 x 20	2.4	100	System SY24
	600 x 600 x 40	3.5	150	System SY24
	1200 x 600 x 40	3.5	150	

\* 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 A2-s1,d0 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.



## 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.

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



## LIGHT REFLECTION

White, 85% diffuse light reflection in accordance with ISO 7724-2.



## THERMAL CONDUCTIVITY

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

**Thermal resistance:**  $R = 1.05$  m<sup>2</sup> 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.

The surface can be foam cleaned once a week. Spray foam onto the surface at low pressure. Let it work for 5 minutes and then sluice or wipe clean. Soap solutions should be 1:100.

The surface can be high pressure cleaned once a week. Max pressure should be 65 bar at 1 metre distance, and water should be spread at a 30° angle. Soap solutions should be 1:100. Where high pressure cleaning is required the tiles can be clipped and sealed into the grid with a silicone sealant containing fungicide.



## AFTERCARE

The tiles can be treated with Rockfon finishing paint, PVA water-based special paint with safety code 00-1, applied in the correct amount with an airless spray with good capacity. 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.

The painting of acoustic tiles reduces the sound absorption by approximately 10%.



## ENVIRONMENT

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

Hygienic is recyclable.

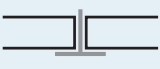
# Hygienic Plus

Hygienic Plus has all the properties of the Hygienic range and includes an integral fungicide which meets the stringent standards for cleanroom classification M2.5/10.

Hygienic Plus and Hygienic Baffles are classified as M2.5/10 in accordance with US FS 2009 E, making them suitable for highly controlled environments. (For further information on baffles, please refer to the Hygienic Baffle data sheet).

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## Hygienic Plus

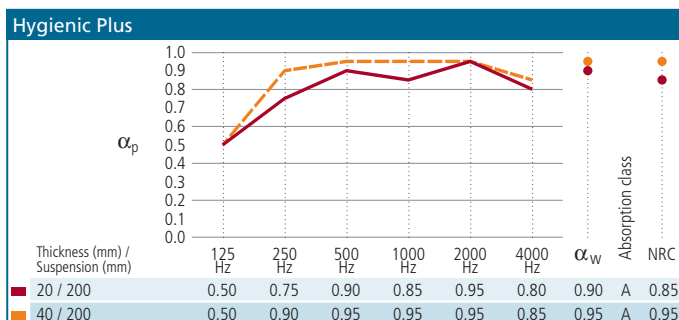
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## CLEAN ROOM CLASSIFICATION

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# 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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