

## Mono® Acoustic

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# Mono<sup>®</sup> Acoustic

The innovative Mono<sup>®</sup> Acoustic system combines the elegance of a seamless ceiling and wall lining with high-performance acoustics.

The unique Mono Acoustic system is a highly acoustic monolithic ceiling and wall lining. This high performance solution is made of top quality stone wool for optimum technical performance and appearance.

Mono Acoustic offers designers greater creative freedom thanks to flexibility of installation. Whether, sloping, flat, or curved – in white or bespoke colours – it can be installed directly to a soffit or suspended as a full ceiling, ceiling islands and on walls for achieving optimum acoustic comfort. Mono Acoustic easily integrates the most common services. It is a multi-purpose system suitable for most projects, whether new build or renovation.

## Description:

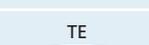
The Mono Acoustic stone wool acoustic panels (40mm), available in three types, are covered with a white fleece on the visible side and, depending on the panel type, an unpainted fleece (Mono Acoustic Direct) or a high-performance membrane (HPM) (Mono Acoustic & Mono Acoustic Flecto) on the reverse. The panels are mechanically fastened to a suspended grid or directly to a soffit then a joint filler and finish render (white or colour matched on request) are applied.

## Installation:

Mono Acoustic can be installed to the suspended Chicago Metallic Monolithic grid using the Mono Acoustic panels or directly to an existing (concrete or gypsum) soffit/ceiling using the Mono Acoustic Direct panels. For curved/vaulted installation of Mono Acoustic ROCKFON developed the Mono Acoustic Flecto panels.

Further information on the three different Mono Acoustic panels can be found on the following pages.

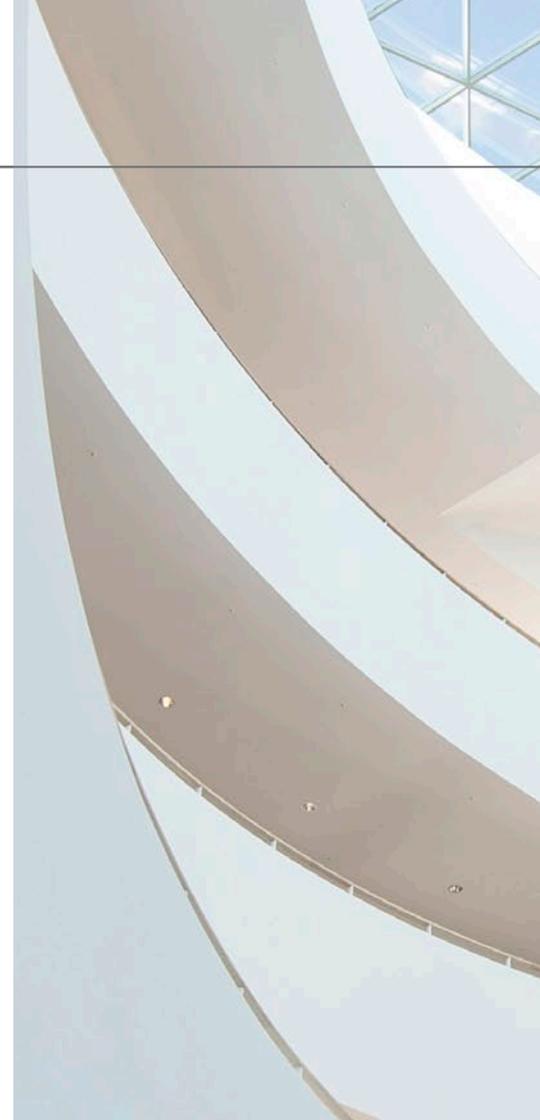
## ASSORTMENT

Panel type	Edge detail	Module size* (mm)	Weight (kg/m <sup>2</sup> )	MS** / Easy access (mm)	Installation system
Mono Acoustic	TE 	1200 x 1200 x 40	6.0	90 / Not demountable	ROCKFON System Mono Acoustic
Mono Acoustic Direct***	TE 	1200 x 1200 x 40	6.0	40 / Not demountable	-
Mono Acoustic Flecto	TE 	1200 x 1200 x 40	6.0	40 / Not demountable	-

\* For this product, module size = exact dimension

\*\* MS - minimum suspension

\*\*\* Mono Acoustic Direct can only be installed directly to a soffit or wall.



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## SOUND INSULATION

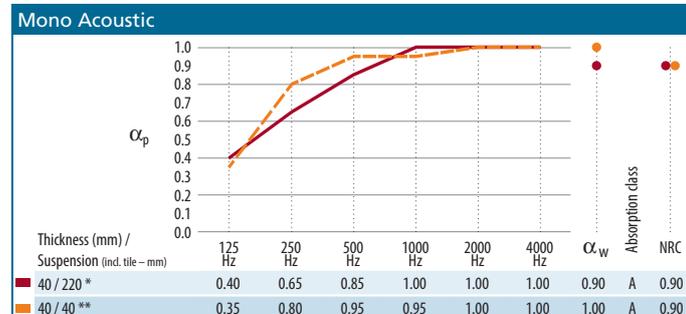
The sound reduction index of Mono Acoustic has been measured in accordance with ISO 140-3, in a certified laboratory.  $R_w (C;C_{tr}) = 22 (-2;-3)$  dB.



## 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.



\* Mono Acoustic panels

\*\* Mono Acoustic Direct panels

Sound absorption values are only valid for horizontal flat ceiling surfaces.



## 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.



## 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.



## LIGHT REFLECTION

White, 78% diffuse light reflection in accordance with DIN 5036-3.



## THERMAL CONDUCTIVITY

Mono Acoustic 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:**  $R = 1.08$  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 Mono Acoustic rendered surface is anti-static. The surface can be vacuum cleaned at low suction with a soft brush attachment. The surface should not be water cleaned or wiped with a wet cloth.



## AFTERCARE

Retouching and repairs can be made with an additional layer of Mono Acoustic render. Recommended coverage rate: 0.3 kg/m<sup>2</sup> (wet). This may slightly reduce sound absorption.



## ENVIRONMENT

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

MonoAcoustic is recyclable.

We believe our acoustic stone wool and metal solutions for ceilings and walls are a fast and simple way to create beautiful, comfortable and safe spaces.

Easy to install and durable, they protect people from noise and the spread of fire. They are our way of making a constructive contribution towards a sustainable future.

Create and Protect is what drives us. It means putting people first, sharing success and maintaining trust.

It's our rock-solid promise to you. At ROCKFON, Create and Protect is what we do - and it's inspired by you.

#### ROCKFON

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