



## Sonar<sup>®</sup> dB

Sonar dB 40 provides enhanced room to room sound insulation as well as a high level of sound absorption, with a pleasing matt white micro-textured surface. Sonar dB 44 provides outstanding sound insulation as well as class A sound absorption with a micro-textured surface for areas where acoustic comfort is extremely important.






# Sonar® dB 40

Sonar dB 40 provides enhanced room to room sound insulation as well as a high level of sound absorption, with a pleasing matt white micro-textured surface.

Sonar dB 40 is made from 30mm stone wool with a high-performance membrane on the back which reduces the transmission of noise from room to room. Sonar dB 40 provides enhanced sound insulation as well as a high level of sound absorption.

In addition, its fire classification is A1 – the safest class possible. Sonar dB 40 has a subtly textured surface, is easy to cut, and with its low weight of 5.0 kg/m<sup>2</sup> is also easy to install.

## ASSORTMENT

Edge detail	Module size (mm)	Weight (kg/m <sup>2</sup> )	MS* / MS* easy access (mm)	Installation system
 A24	600 x 600 x 30	5.0	50 / 200	RockLink 24
	1200 x 600 x 30	5.0	50 / 200	
	1800 x 600 x 30	5.0	50 / 200	
	1200 x 1200 x 30	5.0	50 / 200	
 D	600 x 600 x 30**	5.0	112 / 112	RockLink 24 Monolith RockLink System Z
	600 x 600 x 30	5.0	70 / 70	
 D/AEX	600 x 600 x 30	5.0	200 / 200	RockLink Bandraster
	1200 x 600 x 30	5.0	200 / 200	
	1800 x 600 x 30	5.0	200 / 200	
 E15	600 x 600 x 30	5.0	60 / 200	RockLink 15
	1200 x 600 x 30	5.0	60 / 200	
 E24	600 x 600 x 30	5.0	60 / 200	RockLink 24
	1200 x 600 x 30	5.0	60 / 200	
	1800 x 600 x 30	5.0	60 / 200	
	1200 x 1200 x 30	5.0	60 / 200	

\* MS - Minimum Suspension

\*\* When installing Sonar dB 40 tiles in RockLink 24 Monolith an additional wire hanger shall be placed on all 1800mm cross tees. The additional hanger shall be positioned approximately 550mm from a main runner.



## SOUND INSULATION

The "room-to-room" sound insulation properties of Sonar dB 40 have been measured in a laboratory and it can provide a  $D_{n,f,w}$  (C;C<sub>tr</sub>) of 40 (-2;-6) dB.

The sound insulation value has been measured in accordance with ISO 10848-2.

The overall sound insulation for a building depends on several construction elements such as walls, ceilings, sealants, connections and penetrations.

The sound reduction index of Sonar dB 40 has been measured in a certified laboratory and can provide an  $R_w$  (C;C<sub>tr</sub>) of 21 (-1;-2) dB.

The sound reduction index has been measured in accordance with ISO 140-3.

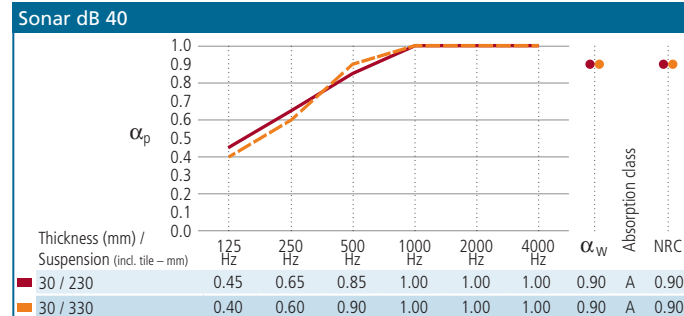






## SOUND ABSORPTION

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.



## 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 Sonar dB 40 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

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



## THERMAL CONDUCTIVITY

Sonar dB 40 with a thickness equal to and exceeding 30mm has been measured in accordance with EN 12667 and has obtained the following value:  $\lambda_D = 40 \text{ mW/mK}$ .

**Thermal resistance:**  $R = 0.75 \text{ m}^2 \text{ k/W}$ .



## 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.

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). Sonar dB 40 is recyclable.

# Sonar® dB 44



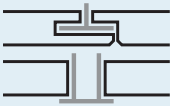

Sonar dB 44 provides outstanding sound insulation as well as class A sound absorption with a micro-textured surface for areas where acoustic comfort is extremely important.

Sonar dB 44 is made of two sound absorbing layers of stone wool with a high-performance membrane in between. The first stone wool layer (30mm) absorbs sound from the room itself and with the high-performance membrane, it reduces the transmission of sound from room to room. The stone wool layer on the back (20mm) absorbs sound in the ceiling void coming from adjacent rooms and the floor above. This 'sandwich' construction provides outstanding sound insulation as

well as class A sound absorption that is necessary where confidentiality and acoustic comfort is very important. With 44 dB sound reduction from room to room, a Sonar dB 44 ceiling contributes to meeting the requirements of many European sound insulation regulations.

Sonar dB 44 has a subtly textured surface, is easy to cut, and with its light weight of 8.5 kg/m<sup>2</sup> is easy to install.

## ASSORTMENT

Edge detail	Module size (mm)	Weight (kg/m <sup>2</sup> )	MS* / MS* easy access (mm)	Installation system
	600 x 600 x 50	8.5	80 / 200	RockLink 24
	1200 x 600 x 50	8.5	80 / 200	
	1800 x 600 x 50	8.5	80 / 200	
	600 x 600 x 50**	8.5	112 / 112	RockLink 24 Monolith
	600 x 600 x 50	8.5	200 / 200	RockLink Bandraster
	1200 x 600 x 50	8.5	200 / 200	
	1800 x 600 x 50	8.5	200 / 200	
	600 x 600 x 50	8.5	90 / 200	RockLink 15
	1200 x 600 x 50	8.5	90 / 200	
	600 x 600 x 50	8.5	90 / 200	RockLink 24
	1200 x 600 x 50	8.5	90 / 200	
	1800 x 600 x 50	8.5	90 / 200	

\* MS - Minimum Suspension

\*\* When installing Sonar dB 44 tiles in RockLink 24 Monolith an additional wire hanger shall be placed on all 1800mm cross tees. The additional hanger shall be positioned approximately 550mm from a main runner.



## SOUND INSULATION

The "room-to-room" sound insulation properties of Sonar dB 44 have been measured in a laboratory and it can provide a  $D_{n,f,w}$  (C;C<sub>tr</sub>) of 44 (-1;-7) dB.

The sound insulation value has been measured in accordance with ISO 10848-2.

The overall sound insulation for a building depends on several construction elements such as walls, ceilings, sealants, connections and penetrations.

The sound reduction index of Sonar dB 44 has been measured in a certified laboratory and can provide an  $R_w$  (C;C<sub>tr</sub>) of 27 (-1;-4) dB.

The sound reduction index has been measured in accordance with [ISO 140-3].

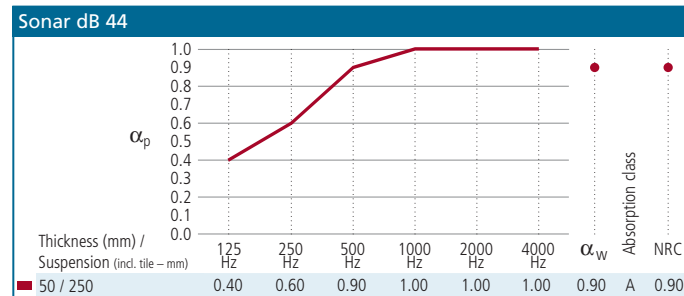






## SOUND ABSORPTION

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.



## 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. Some sizes and edge details of Sonar dB 44 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

ROCKFON ceiling tiles are dimensionally stable even at humidity levels of up to 70% RH and can be installed at all temperatures ranging from 0°C to 40°C. No acclimatisation is necessary.



## LIGHT REFLECTION

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



## THERMAL CONDUCTIVITY

Sonar dB 44 with a thickness equal to and exceeding 30mm has been measured in accordance with EN 12667 and has obtained the following value:  $\lambda_D = 40$  mW/mK.

**Thermal resistance:**  $R = 1.25$  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.

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## ENVIRONMENT

A representative selection of ROCKFON products have been awarded the Indoor Climate Label and the Finnish Indoor Climate Label (M1). Sonar dB 44 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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