

TAKING CARE  
OF DEMANDING  
ACOUSTICS

# ECOPHON MASTER™



**Ecophon**®  
SAINT-GOBAIN

A SOUND EFFECT ON PEOPLE

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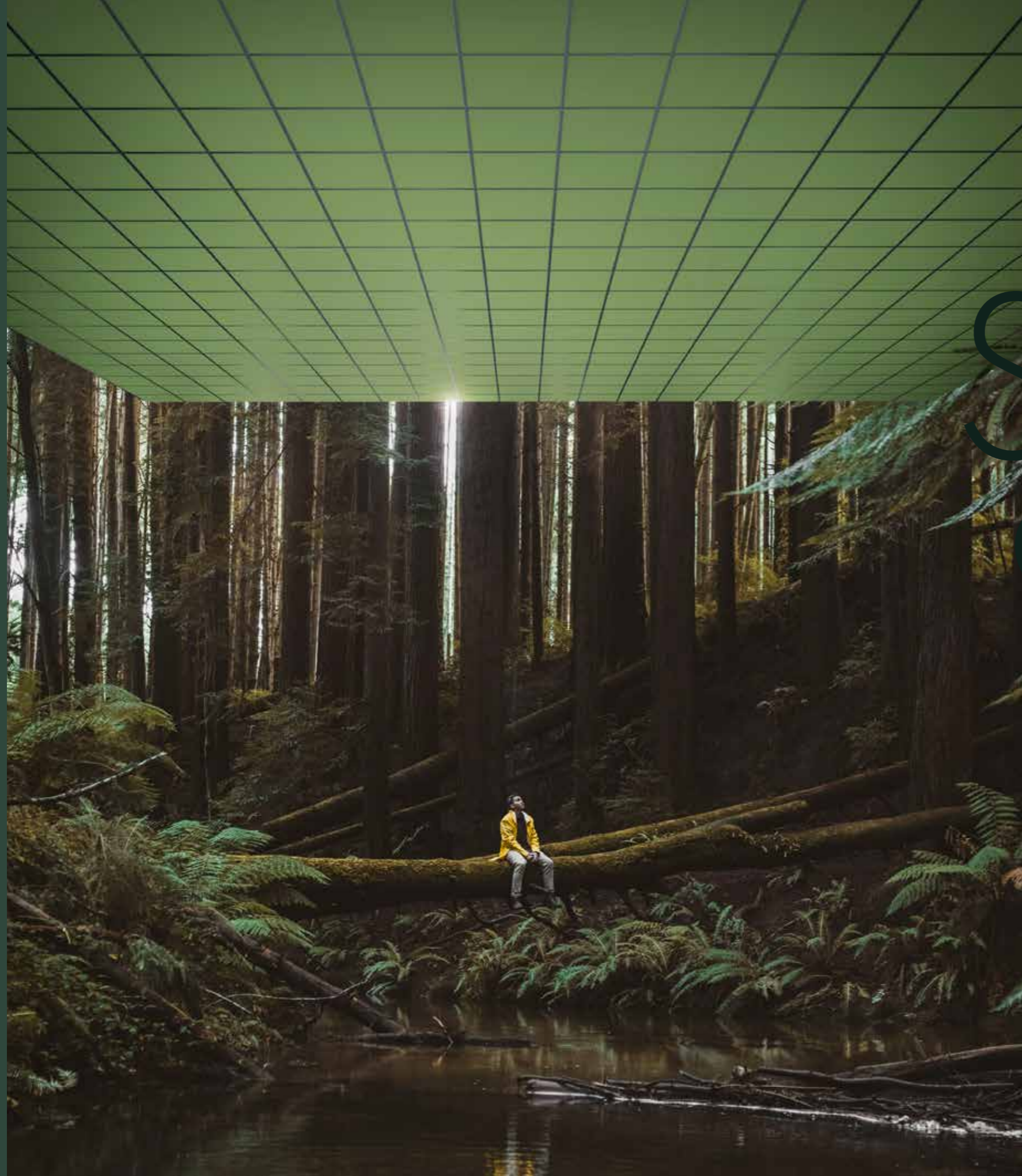
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This publication shows products from Ecophon product range and those of other suppliers. The specifications are intended to provide a general guide to which products are most suitable for the preferences indicated. Technical data is based on results obtained under typical testing conditions or long experience in normal conditions. The specified functions and properties for products and systems are only valid on condition that instructions, installation diagrams, installation guides, maintenance instructions and other stated conditions and recommendations have been taken into consideration and followed. Deviation from this, such as changing specific components or products, will mean that Ecophon cannot be held responsible for the function, consequences and properties of the products. All descriptions, illustrations and dimensions contained in this brochure represent general information and shall not form part of any contract. Ecophon reserves the right to change products without prior notice. We disclaim any liability for misprints. For the latest information go to [www.ecophon.com](http://www.ecophon.com) or contact your nearest Ecophon representative.





# Sound of nature

## IN EVERYDAY LIFE

Saint-Gobain Ecophon contributes to good indoor environments for working, healing and learning. We do this by developing, manufacturing and delivering acoustic products and systems designed around the natural evolution of human hearing – replicating the outdoor sound experience indoors, because that's just better for people.

Having a sound effect on people, in every way we can, is what we do proudly. That promise makes every one of us a passionate advocate for the importance of room acoustics to people's wellbeing – whatever the space, activity or need.

# Good acoustics

## MATTER EVERYWHERE

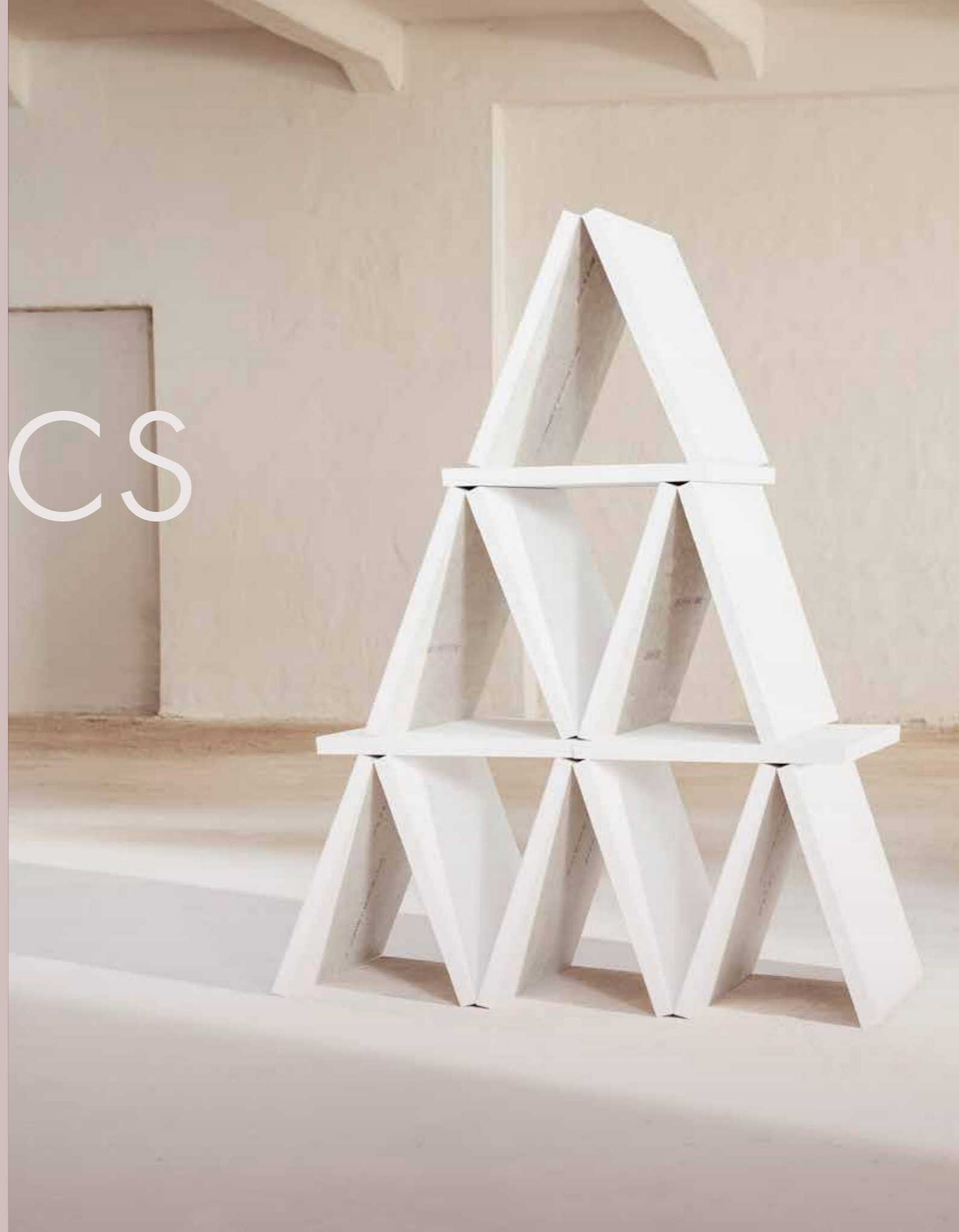
The importance of acoustics is underappreciated. Sound impacts us in daily life, and the scientific support for improving our indoor sound environments is well-documented.

And what exactly is an ideal indoor sound environment for people? One based on how we experience sound outside. The human auditory sense is naturally adapted to an outdoor environment where there is not any sound reflections from ceilings and walls.

That's why most of what we do at Ecophon is about replicating the acoustic qualities found in nature for indoor environments. We want to optimise indoor spaces to our natural way of hearing, so that speech and sound is easy to hear and understand, when needed, improving performance and wellbeing.

Usually that starts with the ceiling. A wall-to-wall acoustic ceiling is the easiest way to get a large sound-absorbing surface area into a space, and is usually the best way to reduce sound strength, shorten reverberation times, and increase speech clarity and overall hearing comfort.

But for a truly optimal sound environment, you'll also likely need different kinds of sound absorbers placed strategically throughout the space—wall-mounted panels and free-standing dividers are just two examples. In other words, a holistic approach is the best way to reduce the overall sound level and sound propagation in a room. Ecophon is here to help.





# Sustainability

## AS A GUIDING LIGHT

At Ecophon, sustainability is at the core of who we are and how we work. It's a promise to do better every day, in every way, for our co-workers, customers and partners in all walks of life. It's an approach to innovation that always sides with nature, and that takes its cue from the needs and environments of the people who will ultimately benefit from it. And it's a commitment to take as little as possible to do more than expected, so that future generations get to experience this planet at its life-sustaining best.

We are proud that all our products are united by their sustainability-driven origins. That applies to the materials we choose, but also to everything from the clean energy we use in our production facilities to the transparency, traceability and accountability embedded in every stage of product and service development, from idea to innovation. This is what makes us reach an industry-low carbon footprint. Because credible sustainability demands a holistic effort that leaves no challenge unaddressed, no opportunity unexplored. And fulfills the promise that ultimately drives all of us at Ecophon – to have a sound effect on people.



# Ecophon Master™

## TAKING CARE OF DEMANDING ACOUSTICS

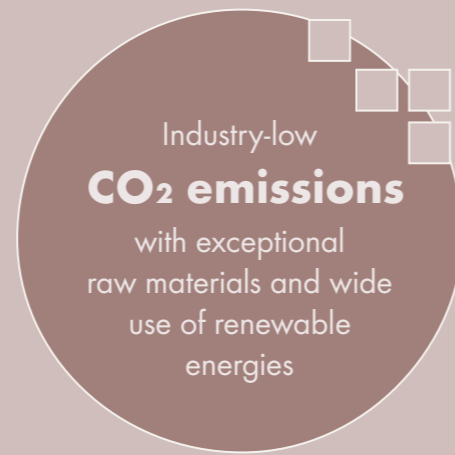
Ecophon Master™ is at the forefront of acoustic innovation and unrivalled in meeting acoustically challenging environments. The result provides excellent sound absorption and speech intelligibility.

- Absorption class A
- Offers 2 different product systems with 7 different edges
- Premium surface with matte look

Spaces where phones are used frequently, or where other high ambient noise levels are to be expected, can be hard to concentrate, be productive or learn in. Master suspended ceiling systems provide exceptional sound absorption and speech clarity – perfect for busy offices, classrooms, or anywhere speech intelligibility is the priority.



Minimum  
**59%**  
 post-consumer recycled content



**ECOPHON MASTER™ PRODUCT RANGE**

Master offer suspended wall-to-wall ceilings with excellent acoustic properties and direct fixing solutions with screws or glue adhesive for a quick and easy acoustic upgrade.

Patent-pending Master Eg is a unique system offering design possibilities with a floating appearance.

Master Rigid systems have a reinforced, durable and impact-resistant surface and is secured in the grid system. Combine with Ecophon Extra Bass for extra low-frequency absorption.

**MASTER A**

600x600x40  
1200x600x40  
1200x1200x40



**MASTER B**

600x600x40  
1200x600x40



**MASTER D<sub>s</sub>**

600x600x40



**MASTER E**

600x600x40  
1200x600x40  
1200x1200x40



**MASTER Eg**

600x600  
1200x600  
1200x1200  
2400x600



**MASTER SQ**

600x600x40  
1200x600x40



**MASTER RIGID E**

600x600x20  
1200x600x20  
1200x1200x20



**MASTER RIGID A**

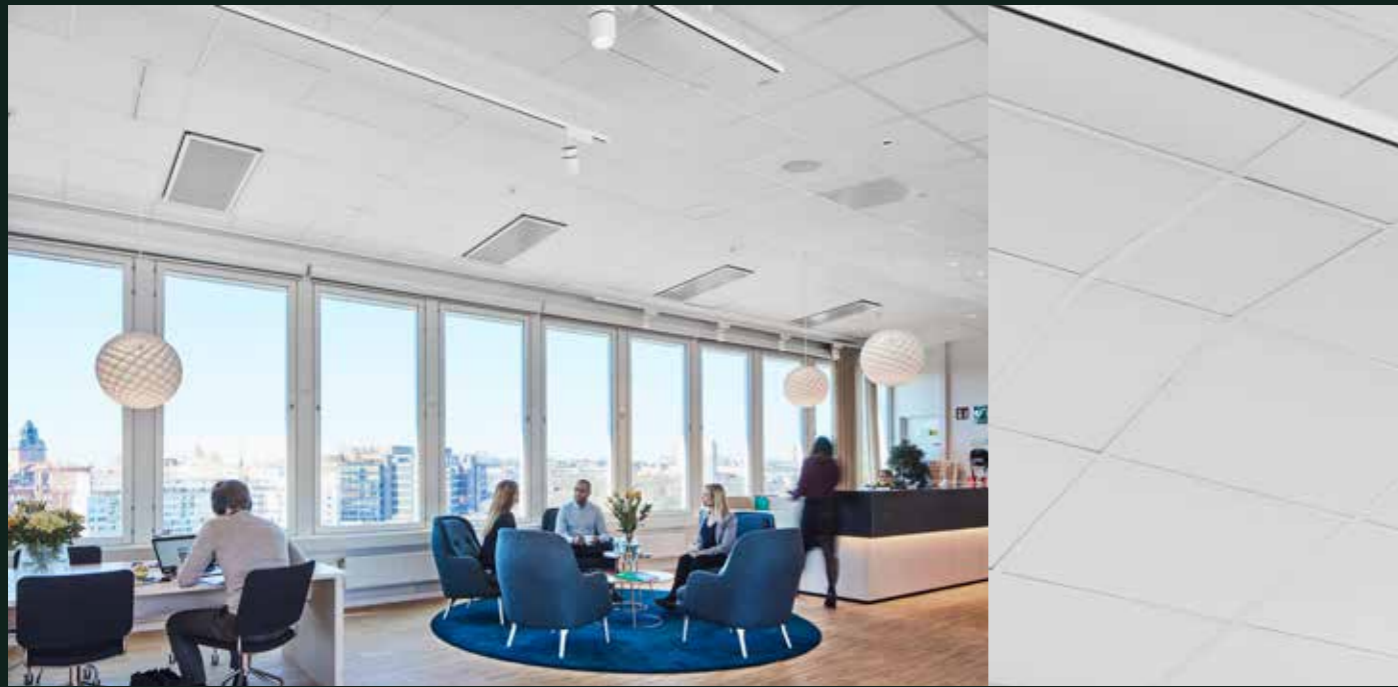
600x600x20  
1200x600x20  
1600x600x20  
1800x600x20  
2000x600x20  
2400x600x20



**MASTER RIGID D<sub>p</sub>**

600x600x20  
1200x600x20

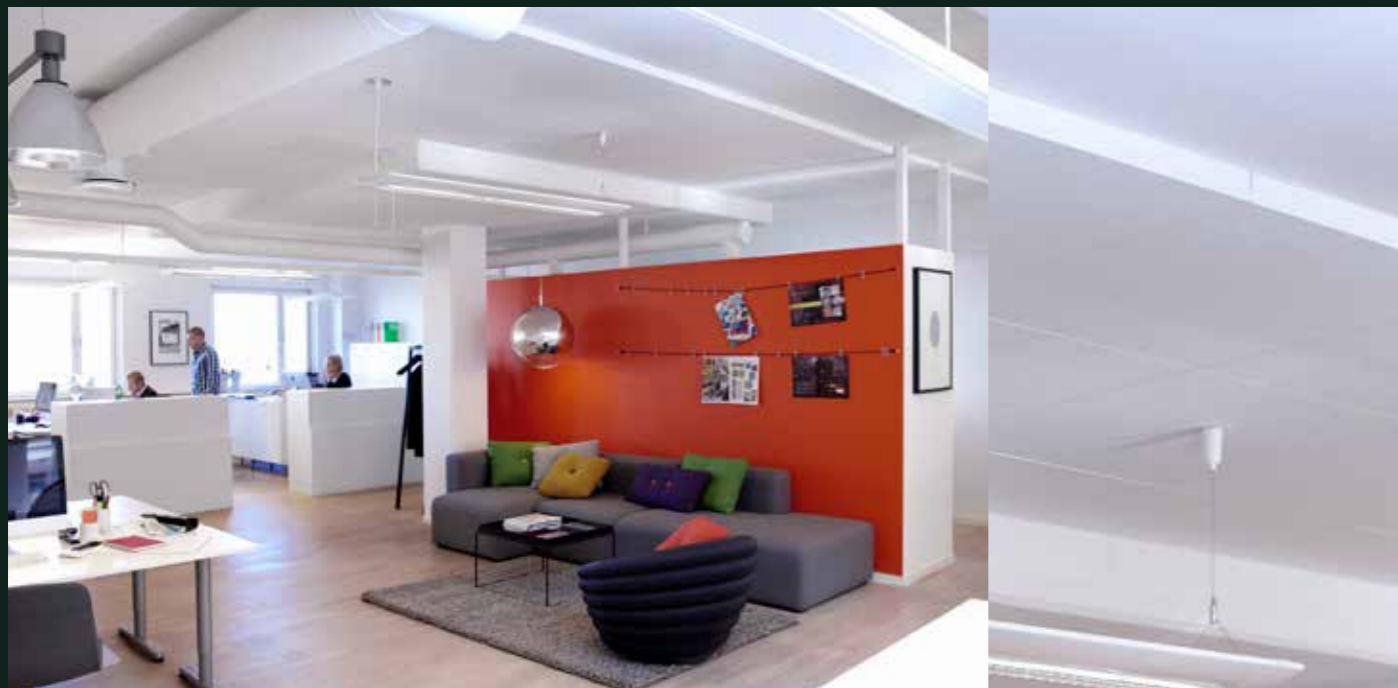
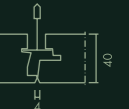




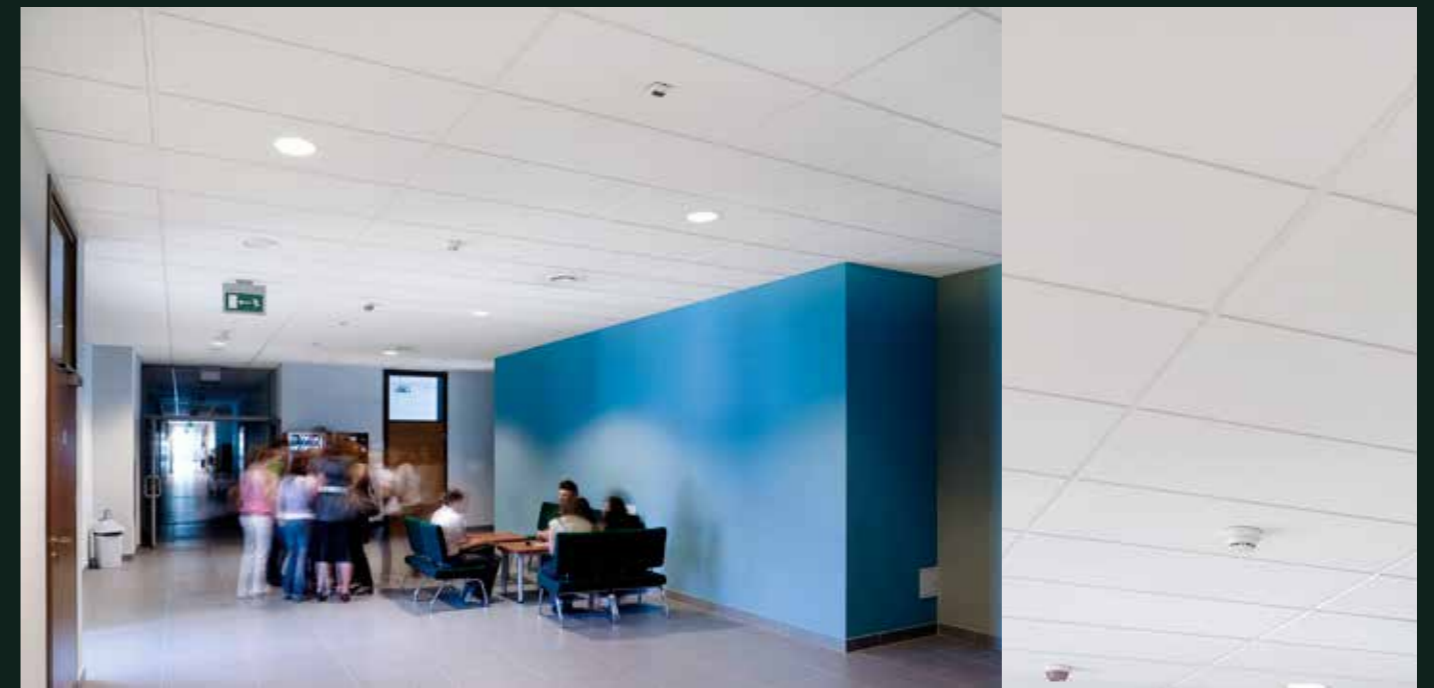
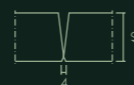
**MASTER A**  
Visible grid system and easy demountable tiles. Available in many formats.



**MASTER D<sub>s</sub>**  
Bevelled edges that generates a discreet groove between the tiles. Concealed grid system.



**MASTER B**  
For direct fixing with glue. Ideal for installations that require minimum depth of system.



**MASTER E**  
Recessed visible grid system creating a shadow effect on the edge. Easily demountable tiles.







**MASTER E9**  
 Unique edge design painted in two colours with concealed support edges and a floating appearance.



**MASTER SQ**  
 For direct fixing with glue. Installed with a gap between each tile.



**MASTER F**  
 For direct fixing with screws. Ideal for installations that require minimum depth of system.

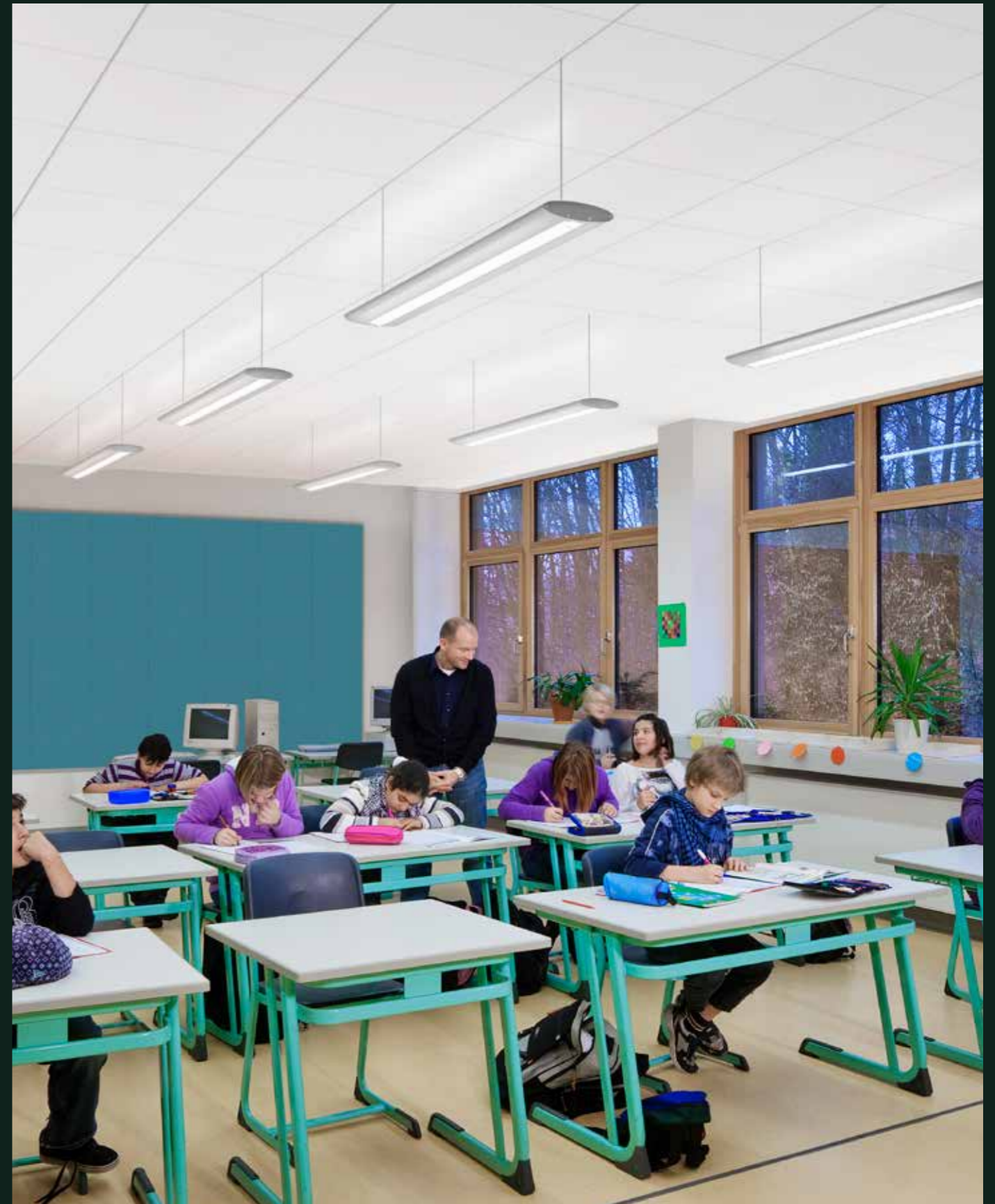


**MASTER RIGID A**  
 Visible grid system with reinforced surface secured by clips but fully demountable tiles. Available in many formats.



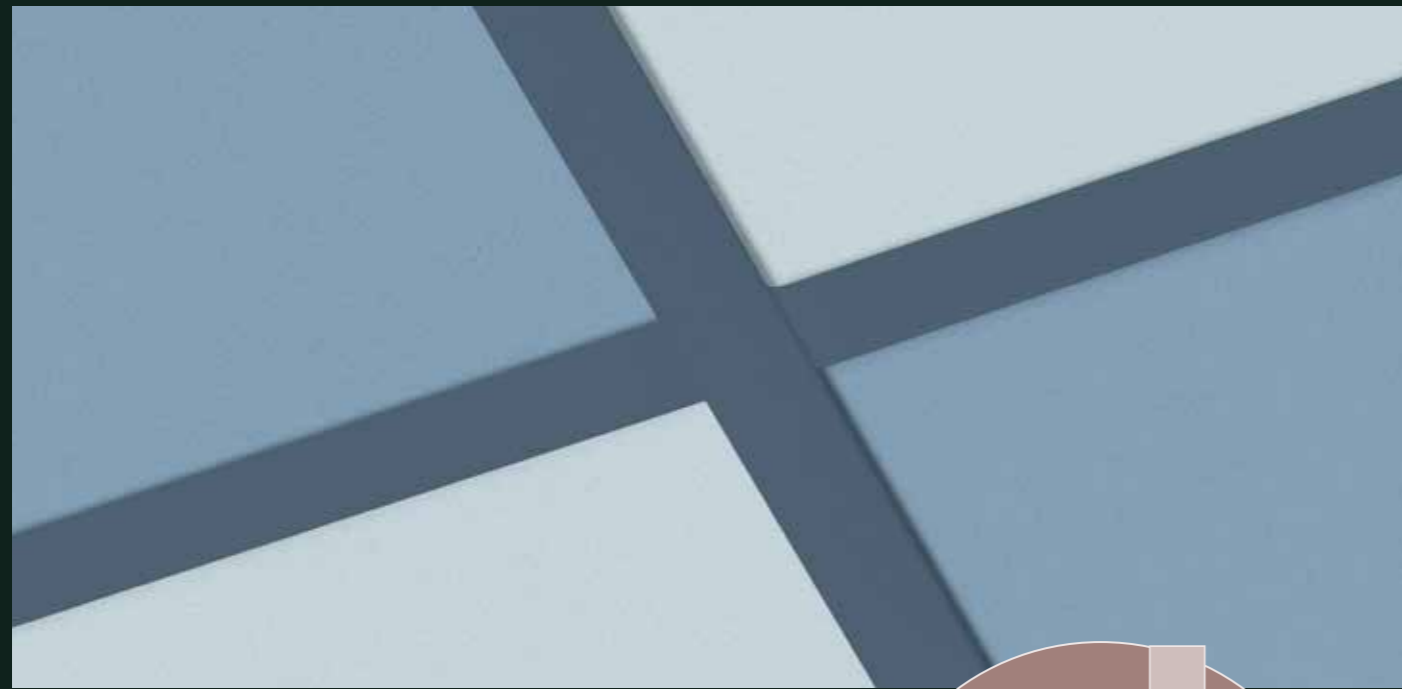


**MASTER RIGID E**  
 Recessed visible grid system creating a shadow effect on the edge.  
 Reinforced surface secured by clips but fully demountable tiles.



**MASTER RIGID Dp**  
 A patented semi-concealed system. Reinforced surface secured by clips but fully demountable tiles.





## GRID COLOURS

- 15 colour options for grids
- Create your own design
- Closest Akutex FT match creates subtle pattern and mixing FT colours gives more design effect

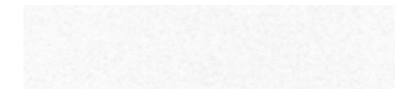
An acoustic ceiling is often the largest continuous surface in a room. It will affect not only the entire look and feel of the interior, but also the end-users' wellbeing.



## COLOURS AND SURFACES

### AKUTEX™ FT

The Akutex label guarantees that the product carrying it has a superior surface technology. Our research and development will always focus on visual aspects, acoustic properties, working environment, architectural trends and environmental aspects. This ensures that Akutex is always one step ahead.



**WHITE FROST** | Light reflectance 85%.  
Nearest NCS colour sample S 0500-N.  
Grid colour NCS S 1000-N.



**OCEAN STORM** | Light reflectance 24%.  
Nearest NCS colour sample S 4020-R90B.  
Grid colour NCS S 4010-R90B.



**MORNING DRIZZLE** | Light reflectance 69%.  
Nearest NCS colour sample S 1002-B.



**VOLCANIC ASH** | Light reflectance 56%.  
Nearest NCS colour sample 2002-Y.



**MOONLIGHT SKY** | Light reflectance 7%.  
Nearest NCS colour sample S 7020-R90B.  
Grid colour NCS S 7010-R90B.



**CLOUDY DAY** | Light reflectance 62%.  
Nearest NCS colour sample S 1500-N.



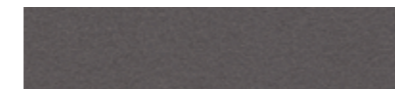
**SILVER STONE** | Light reflectance 29%.  
Nearest NCS colour sample S 4502-Y.



**GOLDEN FIELD** | Light reflectance 61%.  
Nearest NCS colour sample S 1040-G90Y.



**PEACH ROSE** | Light reflectance 55%.  
Nearest NCS colour sample S 1515-Y80R.  
Grid colour NCS S 1510-Y80R.



**SILK SLATE** | Light reflectance 13%.  
Nearest NCS colour sample S 7000-N.  
Grid colour NCS S 6500-N.



**SUNSET HEAT** | Light reflectance 20%.  
Nearest NCS colour sample S 2070-Y60R.



**HIGHLAND FOG** | Light reflectance 55%.  
Nearest NCS colour sample S 2005-G.  
Grid colour NCS S 2005-G20Y.



**GOJI BERRY** | Light reflectance 27%.  
Nearest NCS colour sample S 3030-Y80R.  
Grid colour NCS S 3030-Y80R.



**RUBY ROCK** | Light reflectance 7%.  
Nearest NCS colour sample S 4050-R10B.



**SAGE GARDEN** | Light reflectance 40%.  
Nearest NCS colour sample S 3010-B30G.  
Grid colour NCS S 3010-B30G.



**SILENT STEAM** | Light reflectance 45%.  
Nearest NCS colour sample S 2010-B.  
Grid colour NCS S 2005-R90B.



**EUCALYPTUS LEAF** | Light reflectance 23%.  
Nearest NCS colour sample S 5010-B30G.  
Grid colour NCS S 5010-B30G.



**FRESH CLOVER** | Light reflectance 35%.  
Nearest NCS colour sample S 3020-G40Y.  
Grid colour NCS S 3020-G40Y.



**SCALLOP SHELLS** | Light reflectance 76%.  
Nearest NCS colour sample S 0804-Y50R.  
Grid colour NCS S 0603-Y60R.



**SUMMER FOREST** | Light reflectance 10%.  
Nearest NCS colour sample S 6030-G10Y.  
Grid colour NCS S 6030-G10Y.



**WET SAND** | Light reflectance 35%.  
Nearest NCS colour sample S 3020-Y30R.  
Grid colour NCS S 3020-Y40R.



**DARK DIAMOND** | Light reflectance 4%.  
Nearest NCS colour sample S 9000-N.  
Grid colour NCS S 8000-N.



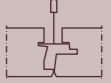
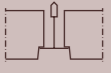
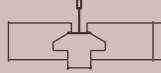




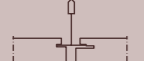
#### NOTE

**MASTER RIGID** is only available in colour White Frost.

Colours may vary slightly between different production batches.

Reproduction of colours vary between print and reality.

## ECOPHON MASTER OVERVIEW

Edge design	Product	Absorption class	Connect grid	Sizes (mm)	Possible combinations
	Ecophon Master A	A	T15 / T24	600x600x40 1200x600x40 1200x1200x40	
	Ecophon Master B	A	Direct fixing	600x600x40 1200x600x40	
	Ecophon Master Ds	A	T24	600x600x40	
	Ecophon Master E	A	T24	600x600x40 1200x600x40 1200x1200x40	
	Ecophon Master Eg	A	T24	600x600 1200x600 1200x1200 2400x600	
	Ecophon Master F	A	Direct fixing	600x600x40 1200x600x40	
	Ecophon Master SQ	A	Direct fixing	600x600x40 1200x600x40	
	Ecophon Master Rigid A	A	T24	600x600x20 1200x600x20 1600x600x20 1800x600x20 2000x600x20 2400x600x20	Extra Bass 1200x600
	Ecophon Master Rigid E	A	T24	600x600x20 1200x600x20 1200x1200x20	Extra Bass 1200x600
	Ecophon Master Rigid Dp	A	T24	600x600x20 1200x600x20	Extra Bass 1200x600



Ecophon Master panels contribute to a healthy indoor environment with superior acoustic absorption, low VOC emissions in line with the strictest requirements, and a full chemical transparency with verified Health Product Declarations. The low environmental footprint of our Master panels is third-party verified in Environmental Product Declarations.

The products do not contribute to fire and the glass wool core of the Master tiles is tested and classified as non-combustible according to EN ISO 1182. Fire classification according to EN 13501-1, see Technical Properties on respectively product.

**NOTE**  
More product and system information such as installation help and sustainability documentation can be found at [www.ecophon.com](http://www.ecophon.com)



Ecophon Master A Ecophon Master B Ecophon Master Ds Ecophon Master E Ecophon Master Eg Ecophon Master F Ecophon Master SQ



Ecophon Master Rigid A Ecophon Master Rigid E Ecophon Master Rigid Dp

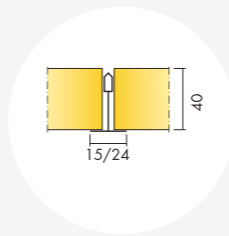


# System properties

## ACOUSTICS, TECHNICAL PROPERTIES AND INSTALLATION DIAGRAMS

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- 42 Master Rigid E
- 44 Master Rigid Dp
- 46 Ecophon Extra Bass



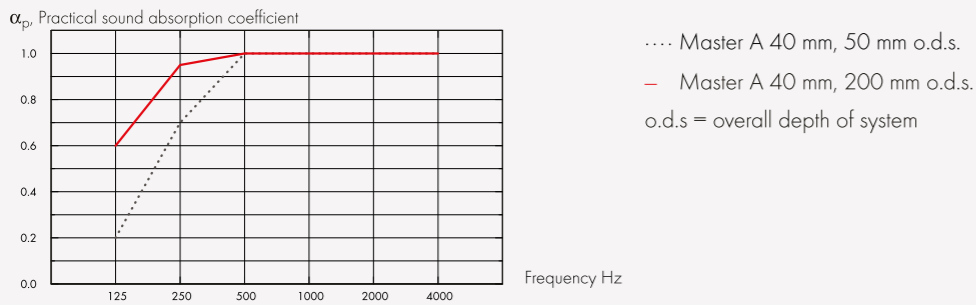


# Ecophon Master™ A

## Acoustic

### Sound Absorption:

Test results according to EN ISO 354. Classification according to EN ISO 11654, and the single value ratings for Noise Reduction Coefficient, NRC and Sound Absorption Average, SAA according to ASTM C 423.



THK mm	o.d.s. mm	$\alpha_p$ Practical sound absorption coefficient						$\alpha_w$	Sound absorption class
		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz		
40	50	0.20	0.70	1.00	1.00	1.00	1.00	1.00	A
40	200	0.60	0.95	1.00	1.00	1.00	1.00	1.00	A

	THK mm	o.d.s. mm	NRC	SAA
-	40	50	1.00	1.00
-	40	400	0.95	0.93

THK mm	AC(1.5) Articulation Class, ASTM E1111, ASTM E1110	$D_{nfw}$ Weighted normalized flanking level difference, ISO 10848-2	CAC dB Ceiling Attenuation Class, ASTM 1414, ASTM E413
40	200	28	30

### Indoor Air Quality:

Certificate / Label	
Eurofins Indoor Air Comfort®	IAC
French VOC	A
Finnish M1	•

**Environmental Footprint:** Kg CO<sub>2</sub> equiv/m<sup>2</sup>: 5,60 From EPD in conformity with ISO 14025 / EN 15804

**Circularity:** Minimum post-consumer recycled content: 59%, Recyclability: Fully recyclable,

**Fire safety:** The glass wool core of the tiles is tested and classified as non-combustible according to EN ISO 1182. Europe: EN 13501-1, A2-s1,d0,

**Humidity Resistance:** Class C, relative humidity 95% and 30°C, according to EN 13964:2014

**Visual appearance:** White Frost, nearest NCS colour sample S 0500-N, 85% light reflectance. Gloss < 1.

**Cleanability:** Daily dusting and vacuum cleaning. Weekly wet wiping.

**Accessibility:** The tiles are easily demountable. Minimum demounting depth according to installation diagrams.

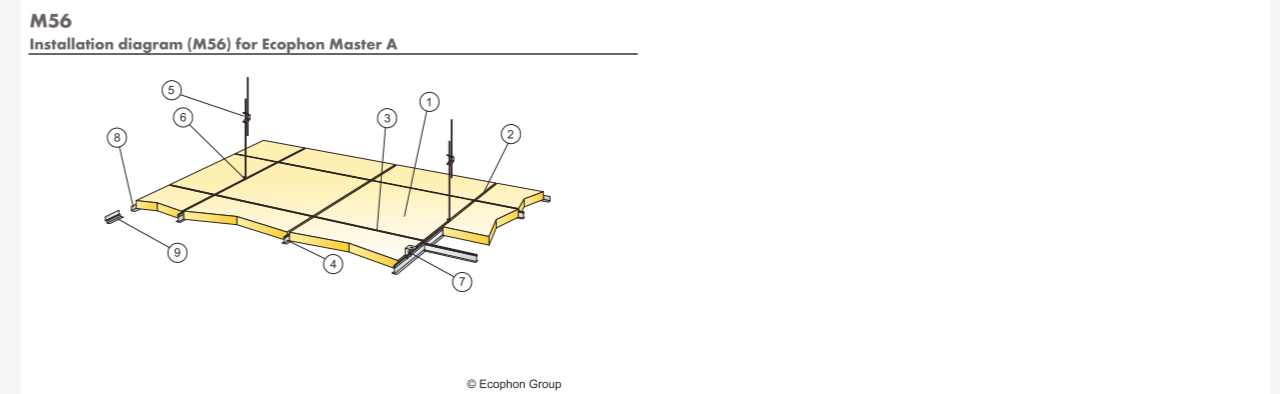
**Installation:** Installed according to installation diagrams, installation guides and drawing aid. For information regarding minimum overall depth of system see quantity specification.

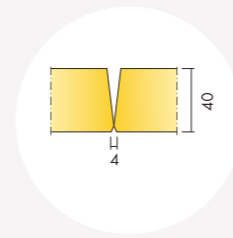
**System weight:** The weight of the system (including suspension grid) should be approximately 5 kg/m<sup>2</sup>.

**Mechanical properties:** See table about Max live load and Min load bearing capacity and Functional demands, Mechanical properties at [www.ecophon.com](http://www.ecophon.com).

**CE:** Ecophon ceiling systems are CE marked according to the European harmonized standard EN13964:2014. CE marked construction products are covered by a Declaration of Performance (DOP) which enables customers and users to easily compare performance of products available on the European market.

## Installation diagram in detail [www.ecophon.com](http://www.ecophon.com)



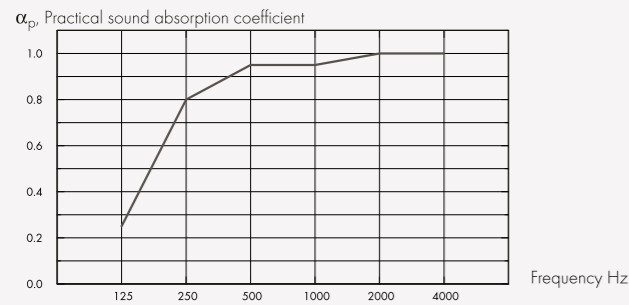


# Ecophon Master™ B

## Acoustic

### Sound Absorption:

Test results according to EN ISO 354. Classification according to EN ISO 11654, and the single value ratings for Noise Reduction Coefficient, NRC and Sound Absorption Average, SAA according to ASTM C 423.



– Master B 40 mm, 43 mm o.d.s.  
o.d.s = overall depth of system

THK mm	o.d.s. mm	$\alpha_p$ Practical sound absorption coefficient						$\alpha_w$	Sound absorption class
		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz		
40	43	0.25	0.80	0.95	0.95	1.00	1.00	1.00	A

THK mm	o.d.s. mm	NRC	SAA
40	43	0.95	0.95

### Indoor Air Quality:

Certificate / Label	Value
Eurofins Indoor Air Comfort®	IAC
French VOC	A
Finnish M1	•

**Environmental Footprint:** Kg CO<sub>2</sub> equiv/m<sup>2</sup>: 5,60 From EPD in conformity with ISO 14025 / EN 15804

**Circularity:** Minimum post-consumer recycled content: 59%, Recyclability: Fully recyclable,

**Fire safety:** The glass wool core of the tiles is tested and classified as non-combustible according to EN ISO 1182. Europe: EN 13501-1, A2-s1,d0,

**Humidity Resistance:** Class C, relative humidity 95% and 30°C, according to EN 13964:2014

**Visual appearance:** White Frost, nearest NCS colour sample S 0500-N, 85% light reflectance. Gloss < 1.

**Cleanability:** Daily dusting and vacuum cleaning. Weekly wet wiping.

**Accessibility:** The tiles are not demountable.

**Installation:** Installed according to installation diagrams, installation guides and drawing aid. For information regarding minimum overall depth of system see quantity specification. Rendered surfaces must have sufficient strength to be able to carry the load imposed by the tiles. If doubts, test gluing should be carried out. The surface should always be dry and clean. For best result the surface should be even.

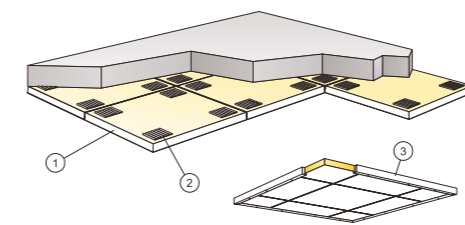
**System weight:** The weight of the system should be approximately 5 kg/m<sup>2</sup>.

**Mechanical properties:** Additional live load has to be fixed to the soffit.

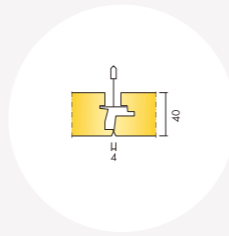
**CE:** Ecophon ceiling systems are CE marked according to the European harmonized standard EN13964:2014. CE marked construction products are covered by a Declaration of Performance (DOP) which enables customers and users to easily compare performance of products available on the European market.

## Installation diagram in detail [www.ecophon.com](http://www.ecophon.com)

**M113**  
Installation diagram (M113) for Ecophon Master B, using Connect Absorber glue



© Ecophon Group

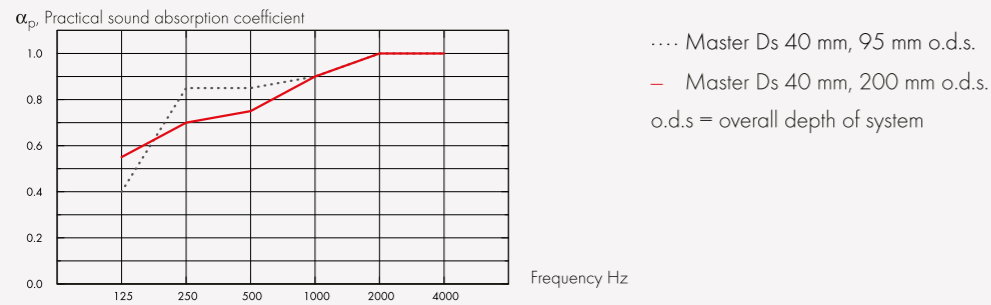


# Ecophon Master™ Ds

## Acoustic

### Sound Absorption:

Test results according to EN ISO 354. Classification according to EN ISO 11654, and the single value ratings for Noise Reduction Coefficient, NRC and Sound Absorption Average, SAA according to ASTM C 423.



THK mm	o.d.s. mm	$\alpha_p$ Practical sound absorption coefficient						$\alpha_w$	Sound absorption class
		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz		
40	95	0.40	0.85	0.85	0.90	1.00	1.00	0.90	A
40	200	0.55	0.70	0.75	0.90	1.00	1.00	0.90	A

	THK mm	o.d.s. mm	NRC	SAA
-	40	95	0.90	0.91
-	40	400	0.85	0.86

THK mm	AC(1.5)		$D_{nfw}$		CAC dB	
	Articulation Class, ASTM E1111, ASTM E1110		Weighted normalized flanking level difference, ISO 10848-2		Ceiling Attenuation Class, ASTM 1414, ASTM E413	
40	200		31		33	

### Indoor Air Quality:

Certificate / Label	
Eurofins Indoor Air Comfort®	IAC
French VOC	A
Finnish M1	•

**Environmental Footprint:** Kg CO<sub>2</sub> equiv/m<sup>2</sup>: 5,60 From EPD in conformity with ISO 14025 / EN 15804

**Circularity:** Minimum post-consumer recycled content: 59%, Recyclability: Fully recyclable,

**Fire safety:** The glass wool core of the tiles is tested and classified as non-combustible according to EN ISO 1182. Europe: EN 13501-1, A2-s1,d0,

**Humidity Resistance:** Class C, relative humidity 95% and 30°C, according to EN 13964:2014

**Visual appearance:** White Frost, nearest NCS colour sample S 0500-N, 85% light reflectance. Gloss < 1.

**Cleanability:** Daily dusting and vacuum cleaning. Weekly wet wiping.

**Accessibility:** The tiles are easily demountable. Minimum demounting depth according to installation diagrams.

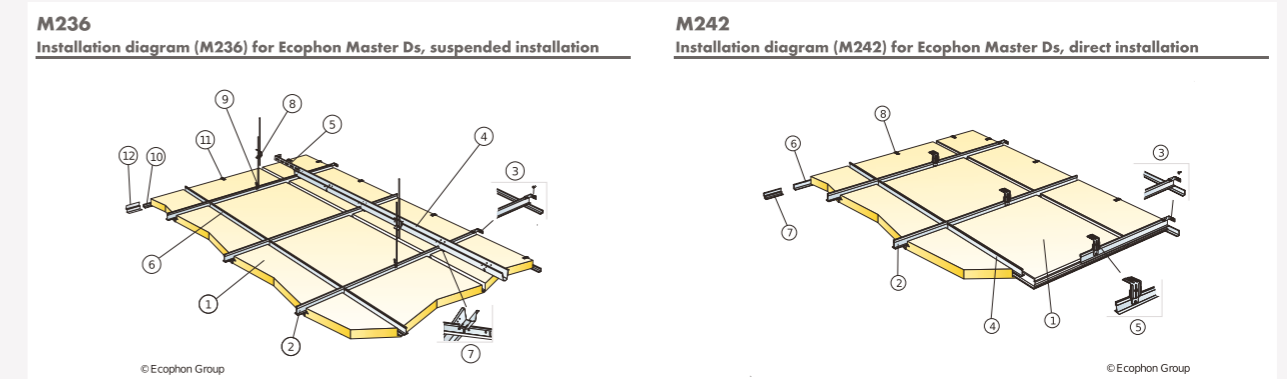
**Installation:** Installed according to installation diagrams, installation guides and drawing aid. For information regarding minimum overall depth of system see quantity specification. The systems are not recommended for small rooms (approximately 2x2 m<sup>2</sup>). Ceilings with a large amount of integrations require careful planning, design and installation.

**System weight:** The weight of the system (including suspension grid) should be approximately 6 kg/m<sup>2</sup>.

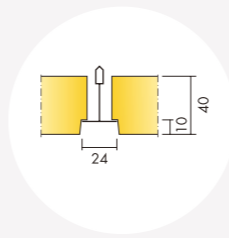
**Mechanical properties:** See table about Max live load and Min load bearing capacity and Functional demands, Mechanical properties at [www.ecophon.com](http://www.ecophon.com).

**CE:** Ecophon ceiling systems are CE marked according to the European harmonized standard EN13964:2014. CE marked construction products are covered by a Declaration of Performance (DOP) which enables customers and users to easily compare performance of products available on the European market.

### Installation diagram in detail [www.ecophon.com](http://www.ecophon.com)





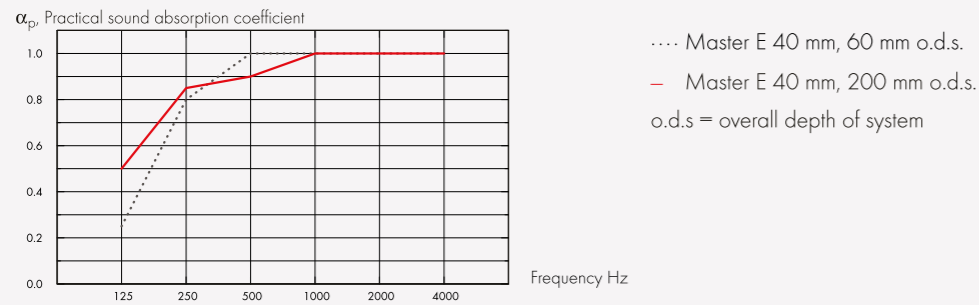


# Ecophon Master™ E

## Acoustic

### Sound Absorption:

Test results according to EN ISO 354. Classification according to EN ISO 11654, and the single value ratings for Noise Reduction Coefficient, NRC and Sound Absorption Average, SAA according to ASTM C 423.



THK mm	o.d.s. mm	$\alpha_p$ Practical sound absorption coefficient						$\alpha_w$	Sound absorption class
		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz		
40	60	0.25	0.80	1.00	1.00	1.00	1.00	1.00	A
40	200	0.50	0.85	0.90	1.00	1.00	1.00	1.00	A

	THK mm	o.d.s. mm	NRC	SAA
-	40	60	1.00	0.98
-	40	200	0.95	0.93
-	40	400	0.90	0.89

THK mm	AC(1.5) Articulation Class, ASTM E1111, ASTM E1110	$D_{nfw}$ Weighted normalized flanking level difference, ISO 10848-2	CAC dB Ceiling Attenuation Class, ASTM 1414, ASTM E413
40	200	29	31

### Indoor Air Quality:

Certificate / Label	
Eurofins Indoor Air Comfort®	IAC
French VOC	A
Finnish M1	•

**Environmental Footprint:** Kg CO<sub>2</sub> equiv/m<sup>2</sup>: 5,60 From EPD in conformity with ISO 14025 / EN 15804

**Circularity:** Minimum post-consumer recycled content: 59%, Recyclability: Fully recyclable,

**Fire safety:** The glass wool core of the tiles is tested and classified as non-combustible according to EN ISO 1182. Europe: EN 13501-1, A2-s1,d0,

**Humidity Resistance:** Class C, relative humidity 95% and 30°C, according to EN 13964:2014

**Visual appearance:** White Frost, nearest NCS colour sample S 0500-N, 85% light reflectance. Gloss < 1.

**Cleanability:** Daily dusting and vacuum cleaning. Weekly wet wiping.

**Accessibility:** The tiles are easily demountable. Minimum demounting depth according to installation diagrams.

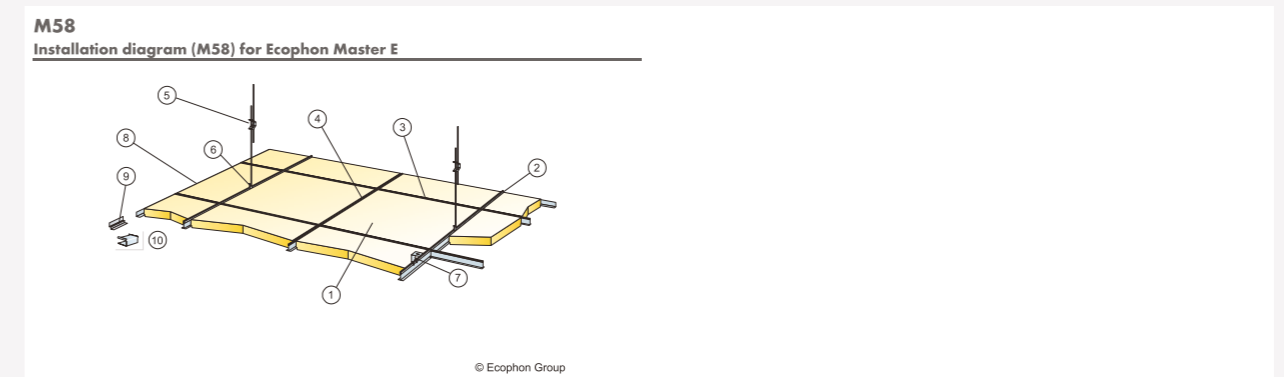
**Installation:** Installed according to installation diagrams, installation guides and drawing aid. For information regarding minimum overall depth of system see quantity specification.

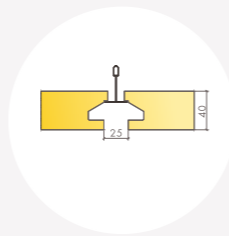
**System weight:** The weight of the system (including suspension grid) should be approximately 5 kg/m<sup>2</sup>.

**Mechanical properties:** See table about Max live load and Min load bearing capacity and Functional demands, Mechanical properties at [www.ecophon.com](http://www.ecophon.com).

**CE:** Ecophon ceiling systems are CE marked according to the European harmonized standard EN 13964:2014. CE marked construction products are covered by a Declaration of Performance (DOP) which enables customers and users to easily compare performance of products available on the European market.

### Installation diagram in detail [www.ecophon.com](http://www.ecophon.com)





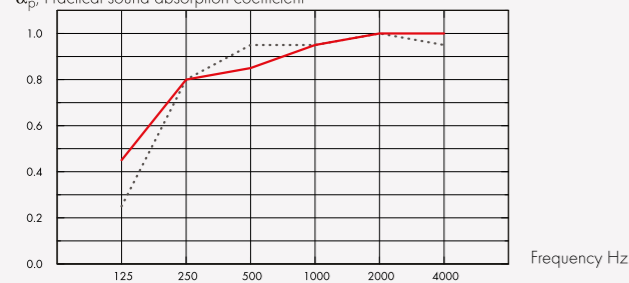
# Ecophon Master™ Eg

## Acoustic

### Sound Absorption:

Test results according to EN ISO 354. Classification according to EN ISO 11654.

$\alpha_p$ , Practical sound absorption coefficient



..... Master Eg 40 mm, 80 mm o.d.s.  
 — Master Eg 40 mm, 200 mm o.d.s.  
 o.d.s = overall depth of system

THK mm	o.d.s. mm	$\alpha_p$ , Practical sound absorption coefficient						$\alpha_w$	Sound absorption class
		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz		
40	80	0.25	0.80	0.95	0.95	1.00	0.95	1.00	A
40	200	0.45	0.80	0.85	0.95	1.00	1.00	0.95	A

THK mm	AC(1.5)	
THK mm	Articulation Class, ASTM E1111, ASTM E1110	
40	200	

### Indoor Air Quality:

Certificate / Label

Eurofins Indoor Air Comfort®	IAC
French VOC	A
Finnish M1	•

**Environmental Footprint:** Kg CO<sub>2</sub> equiv/m<sup>2</sup>: 5,60 From EPD in conformity with ISO 14025 / EN 15804

**Circularity:** Fully recyclable.

**Fire safety:** The glass wool core of the tiles is tested and classified as non-combustible according to EN ISO 1182. Europe: EN 13501-1, A2-s1,d0,

**Accessibility:** The tiles are easily demountable. Minimum demounting depth according to installation diagrams.

**Installation:** Installed according to installation diagrams, installation guides and drawing aid. For information regarding minimum overall depth of system see quantity specification.

**Humidity Resistance:** Class C, relative humidity 95% and 30°C, according to EN 13964:2014

**Visual appearance:** White Frost, nearest NCS colour sample S 0500-N, 85% light reflectance. Gloss < 1.

**Cleanability:** Daily dusting and vacuum cleaning. Weekly wet wiping.

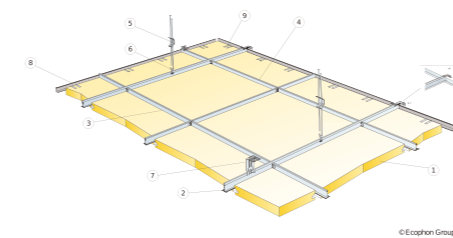
**Mechanical properties:** See table about Max live load and Min load bearing capacity and Functional demands, Mechanical properties at [www.ecophon.com](http://www.ecophon.com).

**CE:** Ecophon ceiling systems are CE marked according to the European harmonized standard EN13964:2014. CE marked construction products are covered by a Declaration of Performance (DOP) which enables customers and users to easily compare performance of products available on the European market.

## Installation diagram in detail [www.ecophon.com](http://www.ecophon.com)

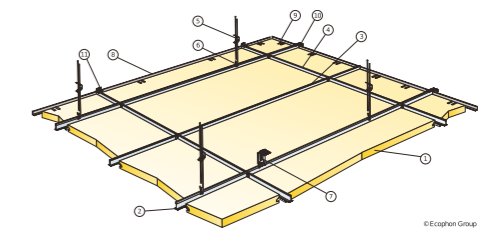
### M498

Installation diagram (M498) for Ecophon Master Eg



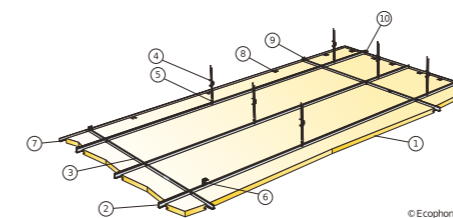
### M499

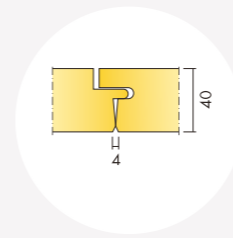
Installation diagram (M499) for Ecophon Master Eg



### M500

Installation diagram (M500) for Ecophon Master Eg



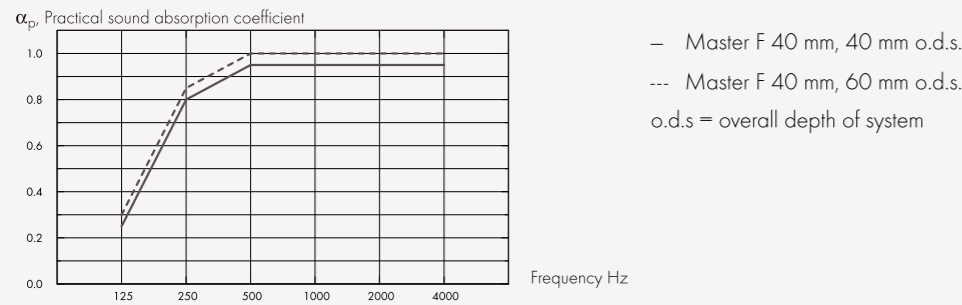


# Ecophon Master™ F

## Acoustic

### Sound Absorption:

Test results according to EN ISO 354. Classification according to EN ISO 11654, and the single value ratings for Noise Reduction Coefficient, NRC and Sound Absorption Average, SAA according to ASTM C 423.



— Master F 40 mm, 40 mm o.d.s.  
 --- Master F 40 mm, 60 mm o.d.s.  
 o.d.s = overall depth of system

THK mm	o.d.s. mm	α <sub>p</sub> Practical sound absorption coefficient						α <sub>w</sub>	Sound absorption class
		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz		
40	40	0.25	0.80	0.95	0.95	0.95	0.95	A	
40	60	0.30	0.85	1.00	1.00	1.00	1.00	A	

### Indoor Air Quality:

Certificate / Label	
Eurofins Indoor Air Comfort®	IAC
French VOC	A
Finnish M1	•

**Environmental Footprint:** Kg CO<sub>2</sub> equiv/m<sup>2</sup>: 5,60 From EPD in conformity with ISO 14025 / EN 15804

**Circularity:** Minimum post-consumer recycled content: 59%, Recyclability: Fully recyclable,

**Fire safety:** The glass wool core of the tiles is tested and classified as non-combustible according to EN ISO 1182. Europe: EN 13501-1, A2-s1,d0,

**Humidity Resistance:** Class C, relative humidity 95% and 30°C, according to EN 13964:2014

**Visual appearance:** White Frost, nearest NCS colour sample S 0500-N, 85% light reflectance. Gloss < 1.

**Cleanability:** Daily dusting and vacuum cleaning. Weekly wet wiping.

**Accessibility:** The tiles are not demountable.

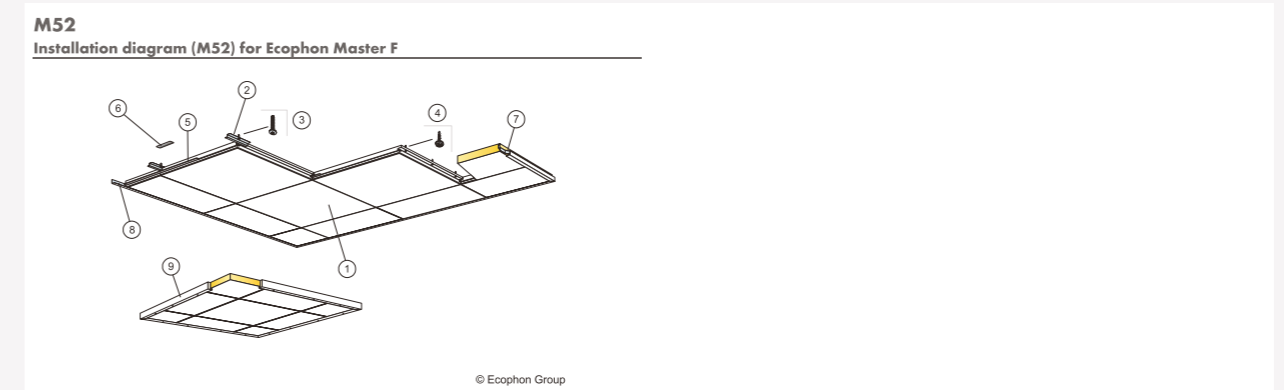
**Installation:** Installed according to installation diagrams, installation guides and drawing aid. For information regarding minimum overall depth of system see quantity specification. For best result the surface should be even, however an acceptable result could be achieved on slightly uneven surfaces. If very uneven surfaces – installation of furring (evenly spaced timber battens) as the substrate for the tiles is recommended.

**System weight:** The weight of the system should be approximately 5 kg/m<sup>2</sup>.

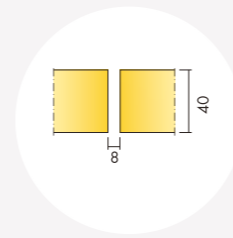
**Mechanical properties:** Additional live load has to be fixed to the soffit.

**CE:** Ecophon ceiling systems are CE marked according to the European harmonized standard EN 13964:2014. CE marked construction products are covered by a Declaration of Performance (DOP) which enables customers and users to easily compare performance of products available on the European market.

## Installation diagram in detail [www.ecophon.com](http://www.ecophon.com)



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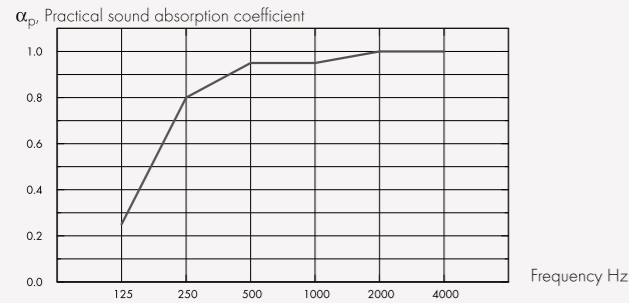


# Ecophon Master™ SQ

## Acoustic

### Sound Absorption:

Test results according to EN ISO 354. Classification according to EN ISO 11654.



— Master SQ 40 mm, 43 mm o.d.s.  
o.d.s = overall depth of system

THK mm	o.d.s. mm	$\alpha_p$ Practical sound absorption coefficient						$\alpha_w$	Sound absorption class
		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz		
40	43	0.25	0.80	0.95	0.95	1.00	1.00	1.00	A

### Indoor Air Quality:

Certificate / Label	
Eurofins Indoor Air Comfort®	IAC
French VOC	A
Finnish M1	•

**Environmental Footprint:** Kg CO<sub>2</sub> equiv/m<sup>2</sup>: 5,60 From EPD in conformity with ISO 14025 / EN 15804

**Circularity:** Minimum post-consumer recycled content: 59%, Recyclability: Fully recyclable,

**Fire safety:** The glass wool core of the tiles is tested and classified as non-combustible according to EN ISO 1182. Europe: EN 13501-1, A2-s1,d0,

**Humidity Resistance:** Class C, relative humidity 95% and 30°C, according to EN 13964:2014

**Visual appearance:** White Frost, nearest NCS colour sample S 0500-N, 85% light reflectance. Gloss < 1.

**Cleanability:** Daily dusting and vacuum cleaning. Weekly wet wiping.

**Accessibility:** The tiles are not demountable.

**Installation:** Installed according to installation diagrams, installation guides and drawing aid. For information regarding minimum overall depth of system see quantity specification. Rendered surfaces must have sufficient strength to be able to carry the load imposed by the tiles. If doubts, test gluing should be carried out. The surface should always be dry and clean. For best result the surface should be even, however an acceptable result could be achieved on slightly uneven surfaces.

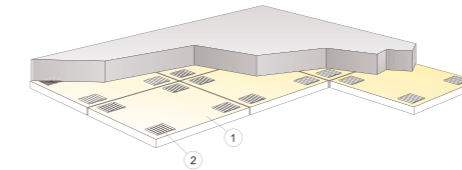
**System weight:** The weight of the system should be approximately 5 kg/m<sup>2</sup>.

**Mechanical properties:** Additional live load has to be fixed to the soffit.

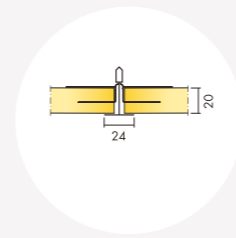
**CE:** Ecophon ceiling systems are CE marked according to the European harmonized standard EN13964:2014. CE marked construction products are covered by a Declaration of Performance (DOP) which enables customers and users to easily compare performance of products available on the European market.

## Installation diagram in detail [www.ecophon.com](http://www.ecophon.com)

**M106**  
Installation diagram (M106) for Ecophon Master SQ, using Connect Absorber glue



© Ecophon Group



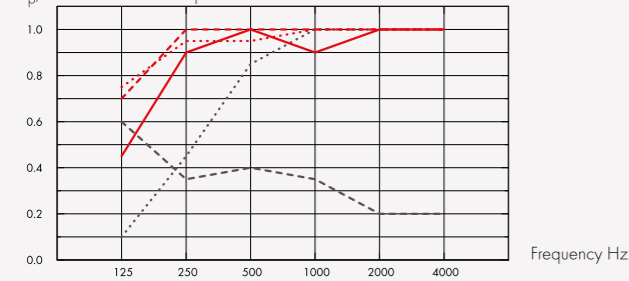
# Ecophon Master™ Rigid A

## Acoustic

### Sound Absorption:

Test results according to EN ISO 354. Classification according to EN ISO 11654.

$\alpha_p$ , Practical sound absorption coefficient



- ..... Master Rigid A 20 mm, 50 mm o.d.s.
  - Master Rigid A 20 mm, 200 mm o.d.s.
  - - - Master Rigid A 20 mm + Extra Bass 50 mm, 200 mm o.d.s.
  - · - · Master Rigid A 20 mm + 2xExtra Bass 100 mm, 200 mm o.d.s.
  - - - Master Rigid A gamma 20 mm, 200 mm o.d.s.
- o.d.s = overall depth of system

	THK mm	o.d.s. mm	$\alpha_p$ , Practical sound absorption coefficient					$\alpha_w$	Sound absorption class	
			125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz			4000 Hz
-	20	50	0.10	0.45	0.85	1.00	1.00	1.00	0.75	C
-	20	200	0.45	0.90	1.00	0.90	1.00	1.00	1.00	A
+ Extra Bass	70	200	0.70	1.00	1.00	1.00	1.00	1.00	1.00	A
+ 2xExtra Bass	120	200	0.75	0.95	0.95	1.00	1.00	1.00	1.00	A
gamma	20	200	0.60	0.35	0.40	0.35	0.20	0.20	0.30	D

	THK mm	o.d.s. mm	NRC	SAA
-	20	50	0.80	0.83
-	20	200	0.95	0.93
+ Extra Bass	70	200	1.00	1.00
gamma	20	200	0.35	0.33

### Indoor Air Quality:

Certificate / Label

Eurofins Indoor Air Comfort®	IAC
French VOC	A
Finnish M1	•

**Environmental Footprint:** Kg CO<sub>2</sub> equiv/m<sup>2</sup>: 3,00 From family EPD in conformity with ISO 14025 / EN 15804

**Circularity:** Fully recyclable.

**Fire safety:** The glass wool core of the tiles is tested and classified as non-combustible according to EN ISO 1182. Europe: EN 13501-1, A2-s1,d0,

**Humidity Resistance:** Class C, relative humidity 95% and 30°C, according to EN 13964:2014

**Visual appearance:** White Frost, nearest NCS colour sample S 0500-N, 85% light reflectance. Gloss < 1.

**Cleanability:** Daily dusting and vacuum cleaning. Weekly wet wiping.

**Accessibility:** The tiles are secured in the grid, but demountable. Minimum demounting depth according to installation diagrams.

**Installation:** Installed according to installation diagrams, installation guides and drawing aid. For information regarding minimum overall depth of system see quantity specification.

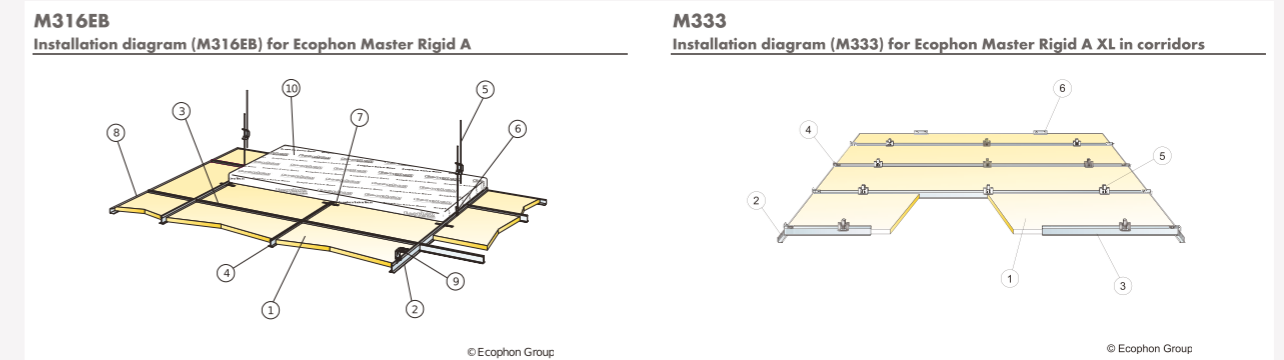
**System weight:** The weight of the system (including suspension grid and Extra Bass) should be approximately 3,5 kg/m<sup>2</sup>.

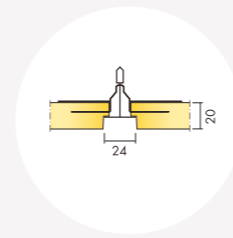
**Mechanical properties:** See table regarding the min- and max- load bearing capacities and functional demands.

**Impact Resistance:** Tested and classified according to EN 13964 annex D. M316: 3A,

**CE:** Ecophon ceiling systems are CE marked according to the European harmonized standard EN 13964:2014. CE marked construction products are covered by a Declaration of Performance (DOP) which enables customers and users to easily compare performance of products available on the European market.

### Installation diagram in detail [www.ecophon.com](http://www.ecophon.com)





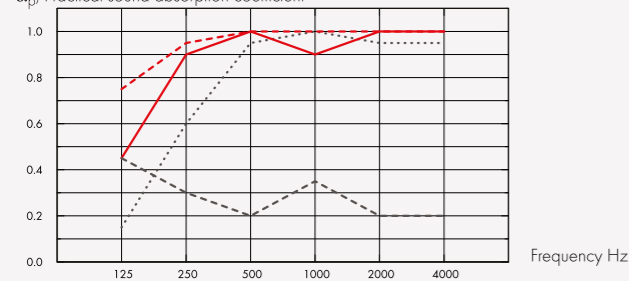
# Ecophon Master™ Rigid E

## Acoustic

### Sound Absorption:

Test results according to EN ISO 354. Classification according to EN ISO 11654.

$\alpha_p$ , Practical sound absorption coefficient



- ..... Master Rigid E 20 mm, 60 mm o.d.s.
  - Master Rigid E 20 mm, 200 mm o.d.s.
  - - - Master Rigid E 20 mm + Extra Bass 50 mm, 200 mm o.d.s.
  - - - Master Rigid E gamma 20 mm, 200 mm o.d.s.
- o.d.s = overall depth of system

	THK mm	o.d.s. mm	$\alpha_p$ , Practical sound absorption coefficient						$\alpha_w$	Sound absorption class
			125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz		
-	20	60	0.15	0.60	0.95	1.00	0.95	0.95	0.90	A
-	20	200	0.45	0.90	1.00	0.90	1.00	1.00	1.00	A
+ Extra Bass	70	200	0.75	0.95	1.00	1.00	1.00	1.00	1.00	A
gamma	20	200	0.45	0.30	0.20	0.35	0.20	0.20	0.25	E

### Indoor Air Quality:

Certificate / Label

Eurofins Indoor Air Comfort®	IAC
French VOC	A
Finnish M1	•

**Environmental Footprint:** Kg CO<sub>2</sub> equiv/m<sup>2</sup>: 3,00 From family EPD in conformity with ISO 14025 / EN 15804

**Circularity:** Fully recyclable.

**Fire safety:** The glass wool core of the tiles is tested and classified as non-combustible according to EN ISO 1182. Europe: EN 13501-1, A2-s1,d0,

**Humidity Resistance:** Class C, relative humidity 95% and 30°C, according to EN 13964:2014

**Visual appearance:** White Frost, nearest NCS colour sample S 0500-N, 85% light reflectance. Gloss < 1.

**Cleanability:** Daily dusting and vacuum cleaning. Weekly wet wiping.

**Accessibility:** The tiles are secured in the grid, but demountable. Minimum demounting depth according to installation diagrams.

**Installation:** Installed according to installation diagrams, installation guides and drawing aid. For information regarding minimum overall depth of system see quantity specification.

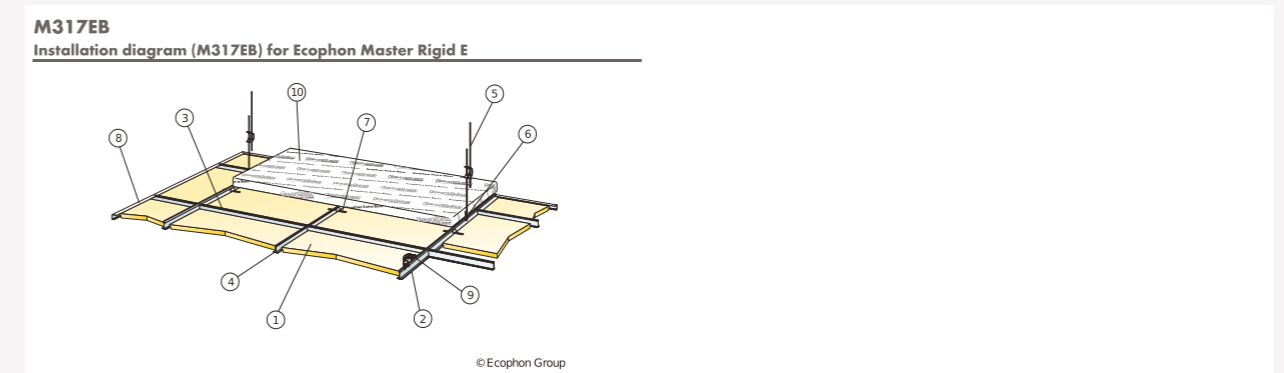
**System weight:** The weight of the system (including suspension grid) should be approximately 5 kg/m<sup>2</sup>.

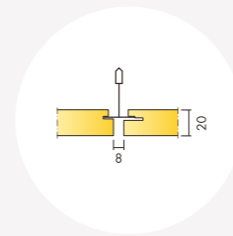
**Mechanical properties:** See table regarding the min- and max- load bearing capacities and functional demands.

**Impact Resistance:** Tested and classified according to EN 13964 annex D. M317: 3A,

**CE:** Ecophon ceiling systems are CE marked according to the European harmonized standard EN13964:2014. CE marked construction products are covered by a Declaration of Performance (DOP) which enables customers and users to easily compare performance of products available on the European market.

## Installation diagram in detail [www.ecophon.com](http://www.ecophon.com)





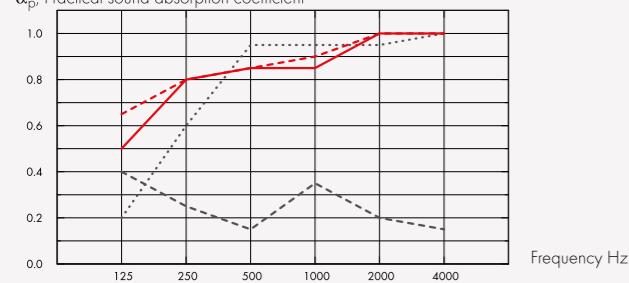
# Ecophon Master™ Rigid Dp

## Acoustic

### Sound Absorption:

Test results according to EN ISO 354. Classification according to EN ISO 11654.

$\alpha_p$ , Practical sound absorption coefficient



- ..... Master Rigid Dp 20 mm, 65 mm o.d.s.
  - Master Rigid Dp 20 mm, 200 mm o.d.s.
  - - - Master Rigid Dp 20 mm + Extra Bass 50 mm, 200 mm o.d.s.
  - - - Master Rigid Dp gamma 20 mm, 200 mm o.d.s.
- o.d.s = overall depth of system

	THK mm	o.d.s. mm	$\alpha_p$ , Practical sound absorption coefficient						$\alpha_w$	Sound absorption class
			125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz		
-	20	65	0.20	0.60	0.95	0.95	0.95	1.00	0.90	A
-	20	200	0.50	0.80	0.85	0.85	1.00	1.00	0.90	A
+ Extra Bass	70	200	0.65	0.80	0.85	0.90	1.00	1.00	0.90	A
gamma	20	200	0.40	0.25	0.15	0.35	0.20	0.15	0.20	E

### Indoor Air Quality:

Certificate / Label

Eurofins Indoor Air Comfort®	IAC
French VOC	A
Finnish M1	•

**Environmental Footprint:** Kg CO<sub>2</sub> equiv/m<sup>2</sup>: 3,00 From family EPD in conformity with ISO 14025 / EN 15804

**Circularity:** Fully recyclable.

**Fire safety:** The glass wool core of the tiles is tested and classified as non-combustible according to EN ISO 1182. Europe: EN 13501-1, A2-s1,d0,

**Humidity Resistance:** Class C, relative humidity 95% and 30°C, according to EN 13964:2014

**Visual appearance:** White Frost, nearest NCS colour sample S 0500-N, 85% light reflectance. Gloss < 1.

**Cleanability:** Daily dusting and vacuum cleaning. Weekly wet wiping.

**Accessibility:** The tiles are secured in the grid, but demountable. Minimum demounting depth according to installation diagrams.

**Installation:** Installed according to installation diagrams, installation guides and drawing aid. For information regarding minimum overall depth of system see quantity specification.

**System weight:** The weight of the system (including suspension grid and Extra Bass) should be approximately 4 kg/m<sup>2</sup>.

**Mechanical properties:** See table regarding the min- and max- load bearing capacities and functional demands.

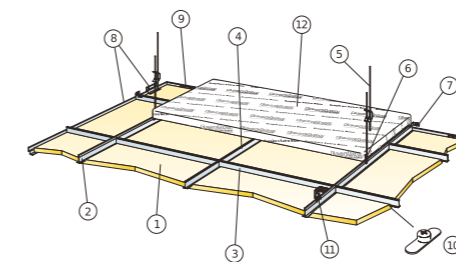
**Impact Resistance:** Tested and classified according to EN 13964 annex D. M318: 3A,

**CE:** Ecophon ceiling systems are CE marked according to the European harmonized standard EN13964:2014. CE marked construction products are covered by a Declaration of Performance (DOP) which enables customers and users to easily compare performance of products available on the European market.

## Installation diagram in detail [www.ecophon.com](http://www.ecophon.com)

### M318EB

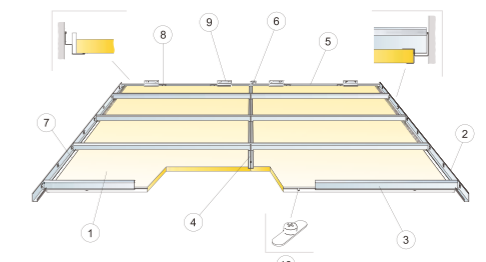
Installation diagram (M318EB) for Ecophon Master Rigid Dp



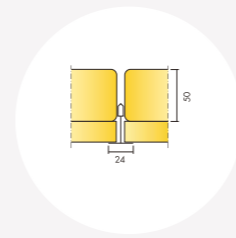
© Ecophon Group

### M319

Installation diagram (M319) for Ecophon Master Rigid Dp in corridors



© Ecophon Group



# Ecophon Extra Bass

**Acoustic:** Addition of Extra Bass on top of Ecophon ceiling systems will give increased absorption in low frequencies. For detailed information please see systems for Master Rigid and Gedina + Extra Bass.

**Indoor Air Quality:**

Certificate / Label	
Eurofins Indoor Air Comfort®	IAC
French VOC	A
Finnish M1	•

**Circularity:** Fully recyclable.

**Fire safety:** The glass wool core of the tiles is tested and classified as non-combustible according to EN ISO 1182. The reaction-to-fire classification is referring to Master Rigid systems (Master Rigid + Extra Bass) and Gedina + Extra Bass. Europe: EN 13501-1, A2-s1,d0,

**Visual appearance:** Not applicable.

**Cleanability:** Not applicable.

**Accessibility:** The product is easily installed, and can be folded around installations in the plenum. Minimum demounting depth according to installation diagrams for the Master Rigid and Gedina + Extra Bass systems.

**Installation:** Installed according to installation diagrams and installation guides for Master Rigid and Gedina + Extra Bass systems. For information regarding minimum overall depth of system see quantity specification.

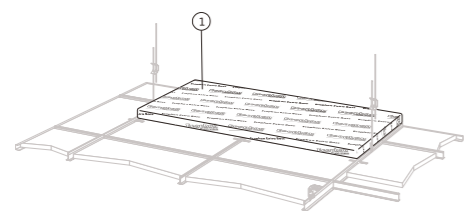
**System weight:** Approximately 0,8 kg/m<sup>2</sup>.

**Mechanical properties:** Not applicable

**CE:** Ecophon ceiling systems are CE marked according to the European harmonized standard EN13964:2014. CE marked construction products are covered by a Declaration of Performance (DOP) which enables customers and users to easily compare performance of products available on the European market.

**Installation diagram in detail [www.ecophon.com](http://www.ecophon.com)**

**M323**  
Installation diagram (M323) for Ecophon Extra Bass



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Ecophon is the leading supplier of solutions for indoor acoustic environments that improve working performance, wellbeing and quality of life.

The principles guiding our work are grounded in our Swedish heritage, where a human approach and a common responsibility for people's lives and future challenges come naturally. Ecophon is part of the Saint-Gobain Group, a world leader in sustainable habitat solutions that balance the need for comfort and cost-effectiveness with energy efficiency and environmental responsibility.



– making the world  
a better home.



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