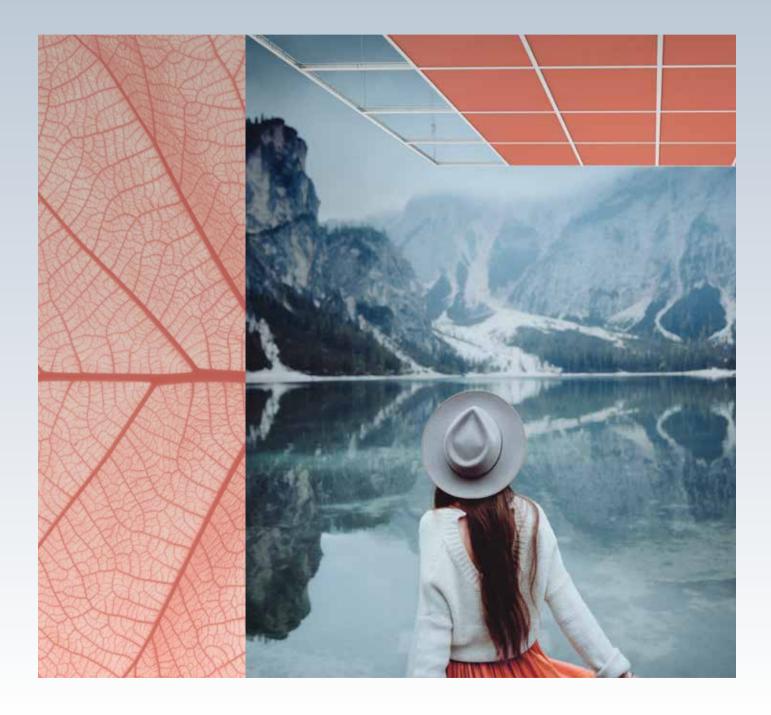
TAKING CARE
OF DEMANDING
ACOUSTICS

ECOPHON MASTERTM





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Acoustics, technical properties and installation diagrams

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 conditions 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 or contact your nearest Ecophon representative.



OHAD CTOS

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.

MATTER EVERYWHERE The importance of acoustics is underappreciated. Sound

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.



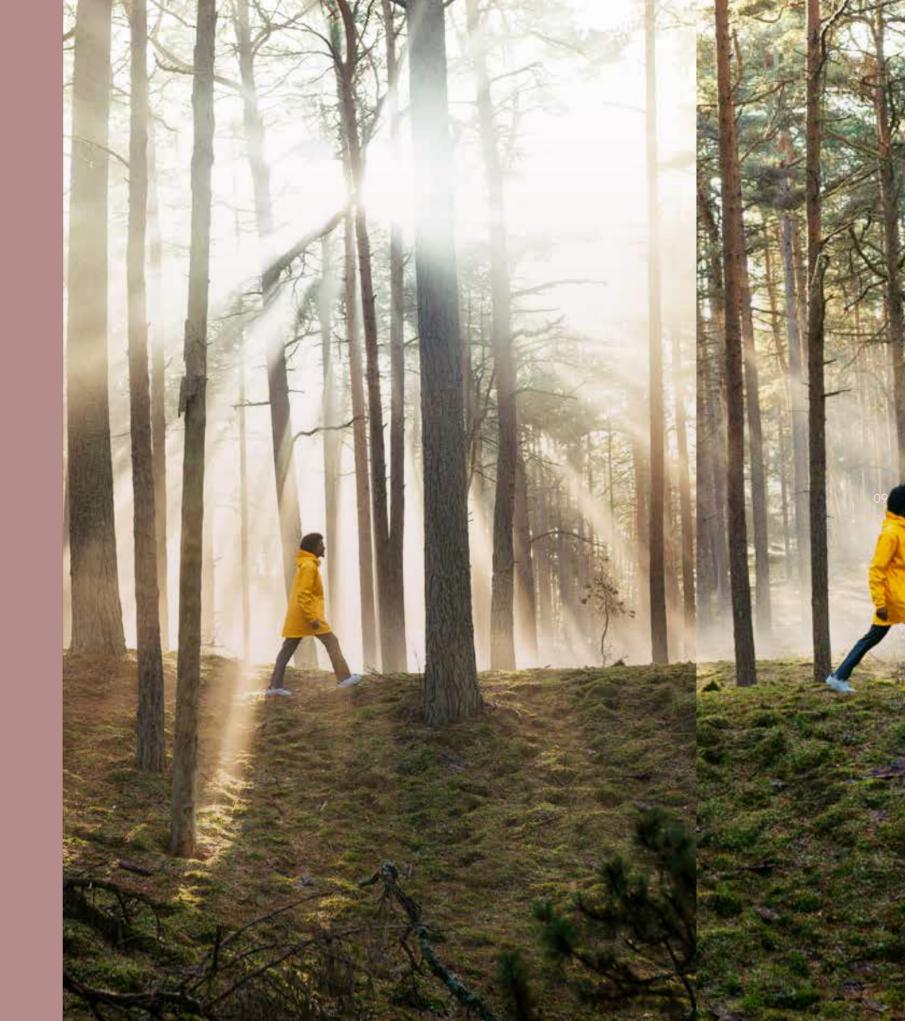


O D BETTER

Sustainability is more than a word – it's a collective movement to protect people and the planet that requires honest commitment and genuine care. That's why Ecophon is building on better materials, transparency, and principles, to name just a few.

We actively support an industry-wide drive to standardized, easy-access Environmental Product Declarations for individual products, rather than product families. Their inclusion of full lifecycle data, from raw material sourcing to end of life, rather than only the favorable stages. A move away from self-declared labels, or non-independently verified sustainability claims. And for any promises of net zero carbon emission targets to be validated by the Science-Based Targets initiative.

f we're going to build a sustainable future, it has o start with an honest approach, high ambition and the best of intentions – to build on better ogether.



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

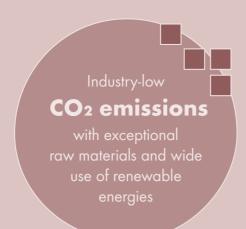
and speech intelligibility.

- 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.







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 Eg

600x600 1200x600 1200x1200 2400x600 Patent pending



MASTER F

600x600x40 1200x600x40



MASTER SQ

600x600x40 1200x600x40



MASTER RIGID A

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



MASTER A

600x600x40 1200x600x40 1200x1200x40



MASTER B

600x600x40 1200x600x40



MASTER RIGID E

600x600x20 1200x600x20 1200x1200x20



MASTER RIGID Dp

600x600x20 1200x600x20 Patented system



MASTER Ds

600x600x40



MASTER E

600x600x40 1200x600x40 1200x1200x40



SQUARE 43

Edge Eg: 600x600x40



DOT

Edge Eg: 600x600x40



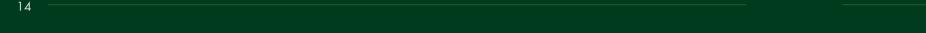


MASTER A

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









MASTER B

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





MASTER Ds

Bevelled edges that generates a discreet groove between the tiles. Concealed grid system.





MASTER E

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







MASTER Eg

Patent pending system with unique edge design painted in two colours with concealed support edges and a floating appearance.









MASTER F

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





MASTER SQ

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



MASTER RIGID A

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







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 subtile 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 \$ 0500-N. Grid colour NCS \$ 1000-N.



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



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



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



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



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



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



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



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



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



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



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



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



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



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



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



MORNING DRIZZLE | Light reflectance 69%. Nearest NCS colour sample \$ 1002-B.



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



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



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



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



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

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) Ecophor	on Ligthing	Possible combinations
	Ecophon Master A	А	T15 / T24	600x600x40 1200x600x40 1200x1200x40		
	Ecophon Master B	А	Direct fixing	600x600x40 1200x600x40		
	Ecophon Master Ds	А	T24	600x600x40		
	Ecophon Master E	А	T24	600x600x40 1200x600x40 1200x1200x40		
	Ecophon Master Eg	А	T24	600x600 Ecophon 1200x600 Ecophon 1200x1200 2400x600	on Dot on Square 43	
	Ecophon Master F	А	Direct fixing	600x600x40 1200x600x40		
	Ecophon Master SQ	А	Direct fixing	600x600x40 1200x600x40		
	Ecophon Master Rigid A	А	T24	600x600x20 1200x600x20 1600x600x20 1800x600x20 2000x600x20 2400x600x20		Extra Bass 1200x600
	Ecophon Master Rigid E	А	T24	600x600x20 1200x600x20 1200x1200x20		Extra Bass 1200x600
	Ecophon Master Rigid Dp	А	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.



For projects where environmental excellence is a priority, Ecophon offers you the Plant option, specifically designed to maximise the contribution of the ceiling to green building certification schemes. Our Plant panel range features bio-based materials, an industry-low CO₂ footprint and the lowest indoor air emissions, with the Eurofins Indoor Air Comfort Gold certification.

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



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ACOUSTICS, TECHNICAL PROPERTIES AND INSTALLATION DIAGRAMS

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38 Master SQ

40 Master Rigid A

42 Master Rigid E

44 Master Rigid Dp

46 Ecophon Extra Bass

48 Square 43

49 Dot





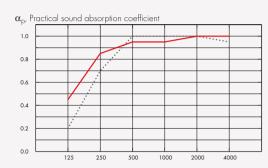


Ecophon Master[™] A

Acoustics:

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 A 40 mm, 50 mm o.d.s.
- Master A 40 mm, 200 mm o.d.s.
- o.d.s = overall depth of system

Frequency H

THK mm	o.d.s. mm	$lpha_{ m p}$, Practical sound absorption coefficient							Sound absorption class
		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	$\alpha_{\scriptscriptstyle \sf W}$	Souria absorption class
40	50	0.20	0.70	1.00	1.00	1.00	0.95	1.00	А
40	200	0.45	0.85	0.95	0.95	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	AC(1.5)	D _{nfw}	CAC dB
mm	Articulation Class, ASTM E1111, ASTM E1110	Weighted normalized flanking level difference, ISO 10848-2	Ceiling Attenuation Class, ASTM 1414, ASTM E413
40	200	28	30

Indoor Air Quality:

Certificate / Label	Standard	Plant
Eurofins Indoor Air Comfort®	IAC	IAC Gold
French VOC	Α	A+
Finnish M1	•	•

Environmental Footprint: Life-cycle stages A1 to C4 from EPD, in conformity with ISO 14025 / EN 15792 Master A: 3,70, Master A/Plant: 3,09,

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: According to EN 13964:2014 Standard: Class C, RH 95% and 30°C, Plant: Class A, RH 70% and 25°C,

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.

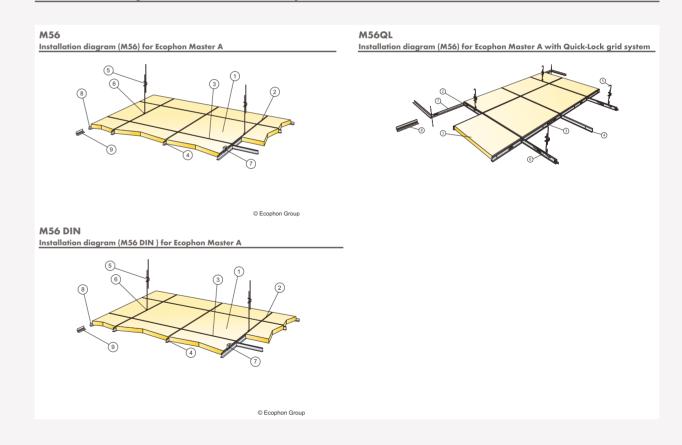
Installation: Installed according to installation diagrams, installation guides and drawing aid. For information regarding minimum overall depth of system see quantity specification.

System weight: The weight of the system (including suspension grid) should be approximately 5 kg/m².

Mechanical properties: See table about Max live load and Min load bearing capacity and Functional demands, Mechanical properties at 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.

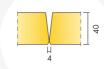
Installation diagram in detail www.ecophon.com



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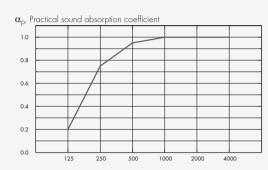


Ecophon Master™ B

Acoustics:

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	o.d.s. mm	$lpha_{ m p'}$ Practical sound absorption coefficient							Sound absorption class
mm		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	$\alpha_{\scriptscriptstyle extsf{w}}$	Souria absorption class
40	43	0.20	0.75	0.95	1.00	1.00	1.00	1.00	А

	THK mm	o.d.s. mm	NRC	SAA
-	40	43	0.95	0.93

Indoor Air Quality:

Certificate / Label

Eurofins Indoor Air Comfort® IAC
French VOC A
Finnish M1

Indoor Air Quality:

Certificate / Label

In collaboration with the Allergy, Skin and Asthma Association

Environmental Footprint: Life-cycle stages A1 to C4 from EPD, in conformity with ISO 14025 / EN 15830 Master B: 7,30,

Circularity: Minimum post-consumer recycled content: 62%, 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.

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Accessibility: The tiles are not demountable.

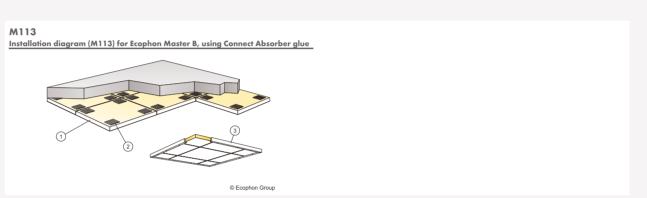
Installation: Installed according to installation diagrams, installation guides and drawing aid. For information regarding minimum overall depth of system see quantity specification. Rendered surfaces must have sufficient strength to be able to carry the load imposed by the tiles. If doubts, test gluing 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/m².

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



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© Ecophon Group Ecophon MasterTM B, Created:2022-05-09 © Ecophon Group



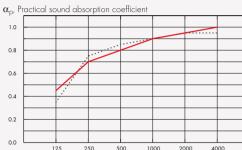


Ecophon Master™ Ds

Acoustics:

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 Ds 40 mm, 95 mm o.d.s.
- Master Ds 40 mm, 200 mm o.d.s.

o.d.s = overall depth of system

125 250 500 1000 2000 4000

THK mm	o.d.s. mm	$lpha_{p'}$ Practical sound absorption coefficient							Sound absorption class
		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	$\alpha_{\scriptscriptstyle \sf W}$	Sound absorption class
40	95	0.35	0.75	0.85	0.90	0.95	0.95	0.90	А
40	200	0.45	0.70	0.80	0.90	0.95	1.00	0.90	А

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

TH	V	AC(1.5)	D_{nfw}	CAC dB
mr		ation 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® IA
French VOC A
Finnish M1 •

Indoor Air Quality:

Certificate / Label

In collaboration with the Allergy, Skin and Asthma Association

Environmental Footprint: Life-cycle stages A1 to C4 from EPD, in conformity with ISO 14025 / EN 15849 Master Ds: 7,10,

 $\textbf{Environmental Footprint:} \ \, \text{Kg CO}_2 \ \, \text{equiv/m}^2\text{:} \ \, 7,10 \ \, \text{From EPD in conformity with ISO} \ \, 14025 \ / \ \, \text{EN} \ \, 15804$

Circularity: Minimum post-consumer recycled content: 63%, 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 \$ 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 m2). Ceilings with a large amount of integrations require careful planning, design and installation.

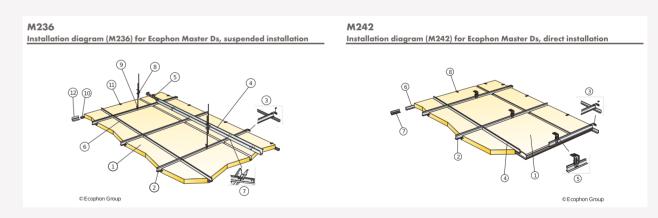
System weight: The weight of the system (including suspension grid) should be approximately 6 kg/m².

Mechanical properties: See table about Max live load and Min load bearing capacity and Functional demands, Mechanical properties at 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.

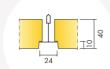
31

Installation diagram in detail www.ecophon.com



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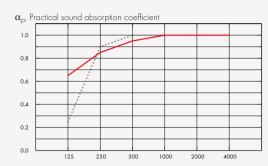


Ecophon Master™ E

Acoustics:

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 E 40 mm, 60 mm o.d.s.
- Master E 40 mm, 200 mm o.d.s.
- o.d.s = overall depth of system

Frequency H

THK mm	o.d.s. mm	$lpha_{ m p}$, Practical sound absorption coefficient							Sound absorption class
		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	α^{\wedge}	Journal absorption class
40	60	0.25	0.90	1.00	1.00	1.00	1.00	1.00	А
40	200	0.65	0.85	0.95	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	0.97
-	40	400	0.90	0.89

TL	НК	AC(1.5)	D _{nfw}	CAC dB
m		Articulation Class, ASTM E1111, ASTM E1110	Weighted normalized flanking level difference, ISO 10848-2	Ceiling Attenuation Class, ASTM 1414, ASTM E413
4	Ю	200	29	31

Indoor Air Quality:

Certificate / Label	Standard	Plant
Eurofins Indoor Air Comfort®	IAC	IAC Gold
French VOC	Α	A+
Finnish M 1	•	•

Environmental Footprint: Life-cycle stages A1 to C4 from EPD, in conformity with ISO 14025 / EN 15843 Master E: 6,10, Master E/Plant: 4,15 ,

Circularity: Minimum post-consumer recycled content: 61%, 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: According to EN 13964:2014 Standard: Class C, RH 95% and 30°C, Plant: Class A, RH 70% and 25°C,

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.

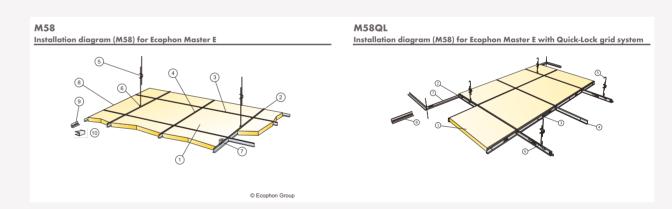
Installation: Installed according to installation diagrams, installation guides and drawing aid. For information regarding minimum overall depth of system see quantity specification.

System weight: The weight of the system (including suspension grid) should be approximately 5 kg/m².

Mechanical properties: See table about Max live load and Min load bearing capacity and Functional demands, Mechanical properties at 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



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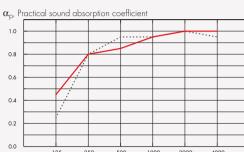


Ecophon Master™ Eg

Acoustics:

Sound Absorption:

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



- ···· 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

Frequency Hz

$lpha_{ m p}$, Pr	actical so	ound abso	orption co	efficient			
1.0						*******	_
0.8							
0.6							
0.4							
0.2		ŕ					
0.0							
0.0	1	125 2.	50 5	00 10	100 20	00 40	00

THK mm	o.d.s. mm		$\alpha_{p'}$	Practical soun	α	Sound absorption class			
		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	α^{M}	Journal absorption class
40	80	0.25	0.80	0.95	0.95	1.00	0.95	1.00	А
40	200	0.45	0.80	0.85	0.95	1.00	1.00	0.95	А

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

Indoor Air Quality:

Certificate / Label

Eurofins Indoor Air Comfort® French VOC Finnish M1

Indoor Air Quality:

Certificate / Label

In collaboration with the Allergy, Skin and Asthma Association

Environmental Footprint: Life-cycle stages A1 to C4 from EPD, in conformity with ISO 14025 / EN 15835 Master Eg: 6,10,

Circularity: Minimum post-consumer recycled content: 61%, 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.

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

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

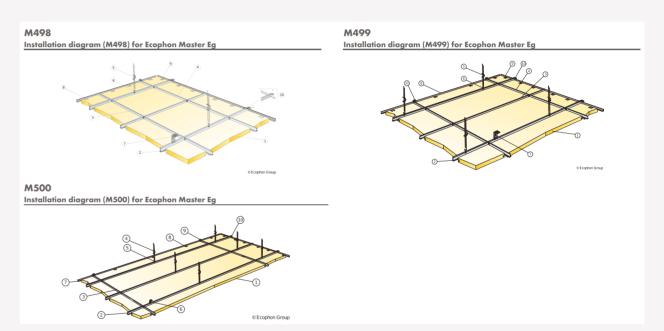
Installation: Installed according to installation diagrams, installation guides and drawing aid. For information regarding minimum overall depth of system see quantity specification.

System weight: The weight of the system (including suspension grid) should be approximately 5 kg/m².

Mechanical properties: See table about Max live load and Min load bearing capacity and Functional demands, Mechanical properties at 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.

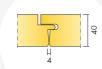
Installation diagram in detail www.ecophon.com



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© Ecophon Group Ecophon Master™ Eg, Created:2022-05-09 © Ecophon Group Ecophon Master™ Eg, Created:2022-05-09



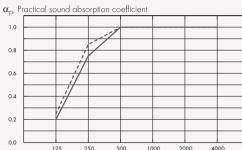


Ecophon Master™ F

Acoustics:

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

125	250	500	1000	2000	4000			
				$\alpha_{\mathfrak{p}}$, Practical	sound abso	orption	1

THK mm	o.d.s. mm		$\alpha_{p'}$	Practical soun	$\alpha_{\scriptscriptstyle ext{w}}$	Sound absorption class			
		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	o. _₩	Journal apporphism class
40	40	0.20	0.75	1.00	1.00	1.00	1.00	1.00	А
40	60	0.25	0.85	1.00	1.00	1.00	1.00	1.00	А

	THK mm	o.d.s. mm	NRC	SAA
-	40	40	0.95	0.96
-	40	60	0.95	0.98

Indoor Air Quality:

Certificate / Label

Eurofins Indoor Air Comfort® IA
French VOC A
Finnish M1

Indoor Air Quality:

Certificate / Label

In collaboration with the Allergy, Skin and Asthma Association

Environmental Footprint: Life-cycle stages A1 to C4 from EPD, in conformity with ISO 14025 / EN 15795 Master F: 7,30 ,

Circularity: Minimum post-consumer recycled content: 63%, 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.

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

Accessibility: The tiles are not demountable.

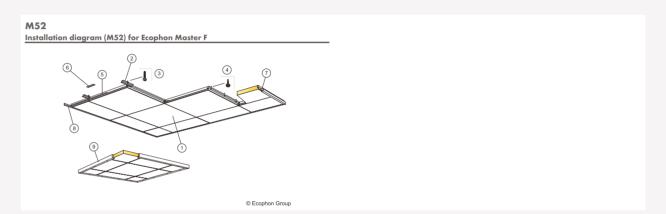
Installation: Installed according to installation diagrams, installation guides and drawing aid. For information regarding minimum overall depth of system see quantity specification. For best result the surface should be even, however an acceptable result could be achieved on slightly uneven surfaces. 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/m².

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



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© Ecophon Group Ecophon Master[™] F, Created:2022-05-09



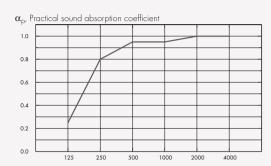


Ecophon Master™ SQ

Acoustics:

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		$\alpha_{p'}$	α	Sound absorption class				
	o.d.s. mm	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	$\alpha_{\scriptscriptstyle ext{W}}$	Sound absorption class
40	43	0.25	0.80	0.95	0.95	1.00	1.00	1.00	А

Indoor Air Quality:

Certificate / Label	
Eurofins Indoor Air Comfort®	ΙA
French VOC	Α
Finnish M1	•

Environmental Footprint: Life-cycle stages A1 to C4 from EPD, in conformity with ISO 14025 / EN 15864 Master SQ: 7,20,

Circularity: Minimum post-consumer recycled content: 62%, 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.

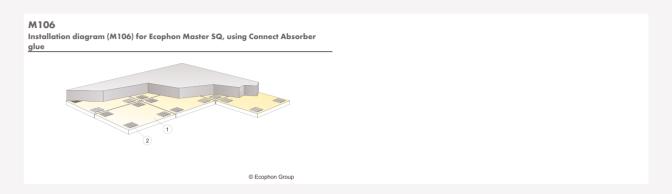
System weight: The weight of the system should be approximately 5 kg/m^2 .

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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



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© Ecophon Group Ecophon MasterTM SQ, Created:2022-05-09



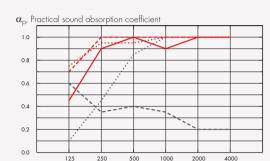


Ecophon Master™ Rigid A

Acoustics:

Sound Absorption:

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



- ···· 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

Frequency Hz

	THK	o.d.s. mm	$lpha_{ m p}$, Practical sound absorption coefficient							Sound absorption class
	mm		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	α^{\wedge}	Journal absorption class
=	20	50	0.10	0.45	0.85	1.00	1.00	1.00	0.75	С
-	20	200	0.45	0.90	1.00	0.90	1.00	1.00	1.00	А
+ Extra Bass	<i>7</i> 0	200	0.70	1.00	1.00	1.00	1.00	1.00	1.00	А
+ 2xExtra Bass,	120	200	0.75	0.95	0.95	1.00	1.00	1.00	1.00	А
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	<i>7</i> 0	200	1.00	1.00
gamma	20	200	0.35	0.33

Indoor Air Quality:

Certificate / Label
Eurofins Indoor Air Comfort®

Eurotins Indoor Air Comfort® IAC French VOC A

Finnish M1

Indoor Air Quality:

Certificate / Label

In collaboration with the Allergy, Skin and Asthma Association

Environmental Footprint: Life-cycle stages A1 to C4 from EPD, in conformity with ISO 14025 / EN 15859 Master Rigid A: 2,95,

Circularity: Minimum post-consumer recycled content: 46%, 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 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^2 .

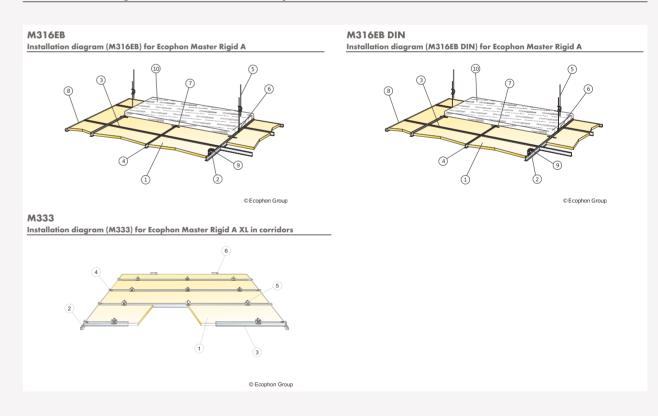
Mechanical properties: See table regarding the min- and max- load bearing capacities and functional demands.

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 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.

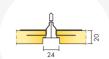
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Installation diagram in detail www.ecophon.com



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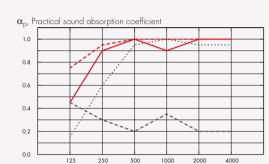


Ecophon Master™ Rigid E

Acoustics:

Sound Absorption:

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



- ···· 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	ods mm	$lpha_{p}$, Practical sound absorption coefficient							Sound absorption class
	mm		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	α^{\wedge}	Sound absorption class
-	20	60	0.15	0.60	0.95	1.00	0.95	0.95	0.90	А
-	20	200	0.45	0.90	1.00	0.90	1.00	1.00	1.00	А
+ Extra Bass	<i>7</i> 0	200	0.75	0.95	1.00	1.00	1.00	1.00	1.00	А
gamma	20	200	0.45	0.30	0.20	0.35	0.20	0.20	0.25	Е

Indoor Air Quality:

Certificate / Label

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

Indoor Air Quality:

Certificate / Label

In collaboration with the Allergy, Skin and Asthma Association

Environmental Footprint: Life-cycle stages A1 to C4 from EPD, in conformity with ISO 14025 / EN 15801 Master Rigid E: 3,27,

Circularity: Minimum post-consumer recycled content: 45%, 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 secured in the grid, but demountable. Minimum demounting depth according to installation diagrams.

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

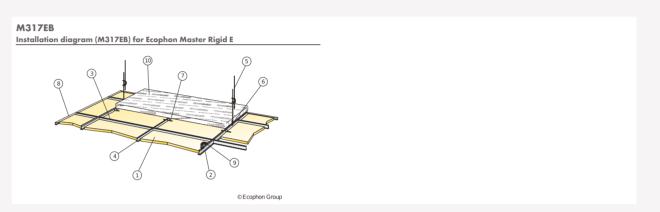
System weight: The weight of the system (including suspension grid) should be approximately 5 kg/m².

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



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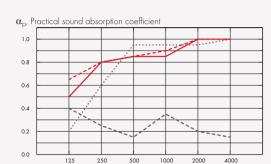


Ecophon Master™ Rigid Dp

Acoustics:

Sound Absorption:

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



- ···· 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	$lpha_{ m p}$, Practical sound absorption coefficient							Sound absorption class
			125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	α^{\wedge}	Soulid absorption class
=	20	65	0.20	0.60	0.95	0.95	0.95	1.00	0.90	А
=	20	200	0.50	0.80	0.85	0.85	1.00	1.00	0.90	А
+ Extra Bass	<i>7</i> 0	200	0.65	0.80	0.85	0.90	1.00	1.00	0.90	А
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

Indoor Air Quality:

Certificate / Label

In collaboration with the Allergy, Skin and Asthma Association

Environmental Footprint: Life-cycle stages A1 to C4 from EPD, in conformity with ISO 14025 / EN 15836 Master Rigid Dp: 4,95, Extra Bass: 1,62,

Circularity: Minimum post-consumer recycled content: 55%, 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 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.

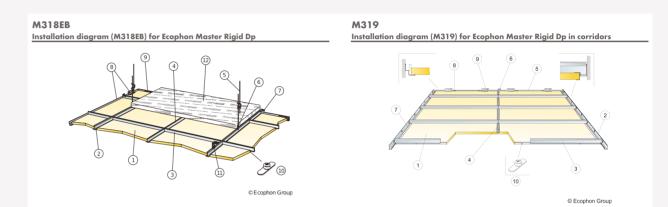
System weight: The weight of the system (including suspension grid and Extra Bass) should be approximately 4 kg/m^2 .

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



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© Ecophon Group Ecophon Master Rigid Dp, Created: 2022-05-09 Ecophon Group



Ecophon Extra Bass

Acoustics: 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

Environmental Footprint: Kg CO₂ equiv/m²: 1,62 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. 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,

Humidity Resistance: Class C, RH 95% and 30°C:

Visual appearance: Not applicable.

Cleanability: Not applicable.

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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.

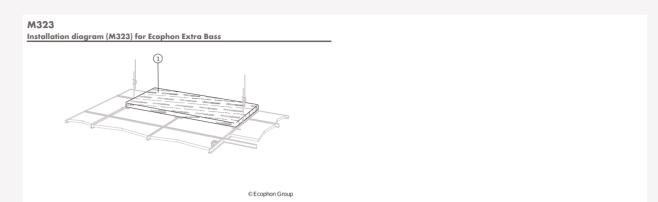
System weight: The weight of the system (including suspension grid and Extra Bass) should be approximately 3.5 kg/m^2 .

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.

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Installation diagram in detail www.ecophon.com



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Ecophon Square 43[™]

Lighting performance:

System effect: 27 W Light source: LED 24,5 W

Luminous flux Square Dg, Ds, E: 3281 lm Luminous flux Square Eg, Ez: 2898 lm

Light efficiency Square Dg, Ds, E: 121,4 lm/W Light efficiency Square Dg, Ds, E: 108 lm/W

Colour temperature: 4000K Color rendering index: Ra ≥80

Colour tolerance: MacAdam ≤3 SDCM

Light output ratio (LOR): 100% Light distribution up/down: 0/100 Expected lifespan: L90 >50 000 h Expected lifespan: L70 >100 000 h

Connection: The standard on/off electronic HF ballast delivered with 2,5 meters of cable 3x0,75 mm² and Euro plugg. The SwitchDIM/DALI delivered without cable.

Electrical data: 220-240 V, 50-60 Hz, power factor cos φ>0,98. Electronic HF ballast or electronic HF dim ballast for digital regulation. Light source: led module of 27W total.

Electrical approvals: IP20, Class 1.

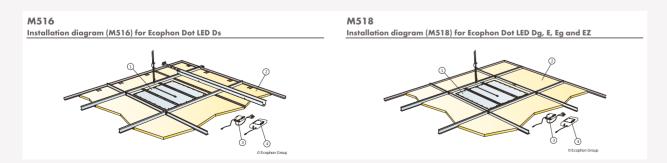
Visual appearance: Tile surface finish; White Frost, nearest NCS colour sample S 0500-N, 85% light reflectance. Gloss < 1.

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 system range which include information regarding minimum overall depth of system. The tile with luminaire housing rests on the T-profiles and the SwitchDIM/DALI and standard on/off ballasts are fastened to the grid or tile next to the luminaire with velcro. Once the tile with luminaire and ballast are in place a certified installation electrician must connect the wiring to sockets or to the next luminaire.

Installation diagram in detail www.ecophon.com



Ecophon Dot™

Lighting performance:

System effect: 27 W Light source: LED 24,5 W

Luminous flux Dot Dg, Ds, E: 2936 lm Luminous flux Dot Eg, Ez: 2635 lm Light efficiency Dot Dg, Ds, E: 108,7 lm/W

Light efficiency Dot Eg, Ez: 99 lm/W Colour temperature: 4000K Color rendering index: Ra ≥80

Colour tolerance: MacAdam ≤3 SDCM

Light output ratio (LOR): 100% Light distribution up/down: 0/100 Expected lifespan: L90 >50 000 h Expected lifespan: L70 >100 000 h

Connection: The standard on/off electronic HF ballast delivered with 2,5 meters of cable 3x0,75 mm² and Euro plugg. The SwitchDIM/DALI delivered without cable.

Electrical data: 220-240 V, 50-60 Hz, power factor cos φ>0,98. Electronic HF ballast or electronic HF dim ballast for digital regulation. Light source: led module of 27W total.

Electrical approvals: IP20, Class 1.

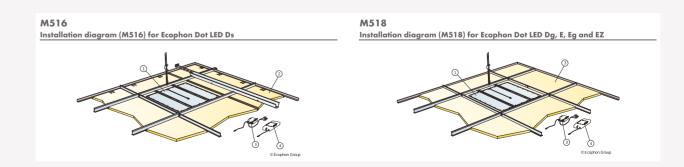
Visual appearance: Tile surface finish; White Frost, nearest NCS colour sample S 0500-N, 85% light reflectance. Gloss < 1.

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 system range which include information regarding minimum overall depth of system. The tile with luminaire housing rests on the T-profiles and the SwitchDIM/DALI and standard on/off ballasts are fastened to the grid or tile next to the luminaire with velcro. Once the tile with luminaire and ballast are in place a certified installation electrician must connect the wiring to sockets or to the next luminaire.

Installation diagram in detail www.ecophon.com



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Ecophon is the leading supplier of indoor acoustic solutions that improve working performance and quality of life. We believe in the difference sound can make to our everyday lives, and are passionate advocates for the importance of room acoustics to people's wellbeing – whatever the space, activity or need.

Having a sound effect on people is the principle that guides all we do. We're proud of the Swedish heritage and human approach that promise is founded on. Our uncompromising commitment to transparent sustainable practice.

And, as members of the Saint-Gobain Group, to be doing our part in making the world a better home.





