

TAKING CARE
OF DEMANDING
ACOUSTICS

ECOPHON MASTER™



Ecophon
SAINT-GOBAIN

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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.

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

06

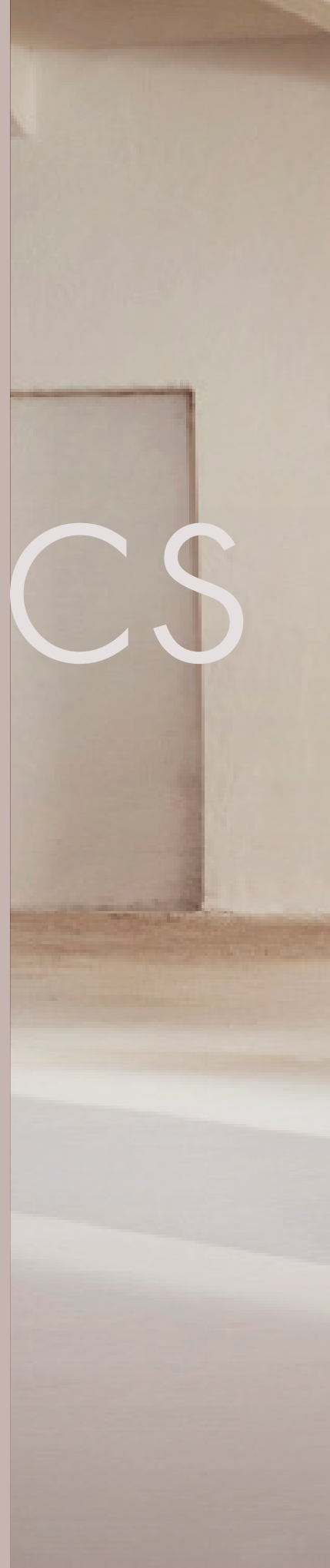
The importance of acoustics is underappreciated. Sound impacts our daily lives, and the scientific support for improving our indoor sound environments is well-documented.

But, what exactly is an ideal indoor sound environment for people? We believe it to be one based on how we experience sound outside. The human auditory sense is naturally adapted to an outdoor environment where there are no sound reflections from ceilings and walls.

That's why, at Ecophon, we strive to replicate the acoustic qualities found in nature for indoor environments. We want to optimise indoor spaces so that speech and sound clarity are improving performance and wellbeing.

This usually 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 which will result in: reduced reverberation time, increased speech clarity and overall hearing comfort.

To create an optimal sound environment, wall-mounted panels can be strategically placed to visually compliment the space. We find a holistic approach is the best way to reduce the overall sound level and sound propagation in a room, and Ecophon is here to help.







Building on

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 standardised, 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 favourable stages. A move away from self-declared labels, or non-independently verified sustainability claims. For any promises of net zero carbon emission targets to be validated by the Science-Based Targets initiative.

If we’re going to build a sustainable future, it has to start with an honest approach, high ambition and the best of intentions – to build on better together.





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. 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. As 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.

ity



Ecophon Master™

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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

Master suspended ceiling systems provide exceptional sound absorption and speech clarity - perfect for busy offices, classrooms, or anywhere speech intelligibility is the priority.






Minimum

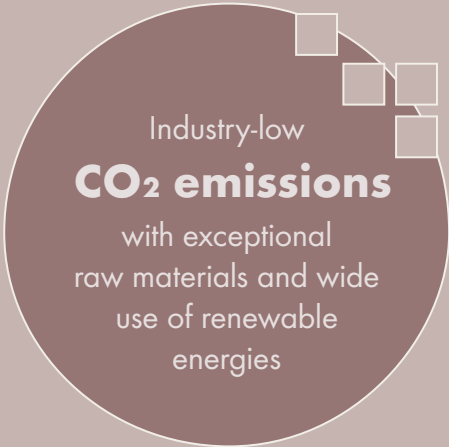
59%

post-consumer recycled
content



Circle the correct fraction that shows how many pizza slices are gone.

	$\frac{1}{3}$	$\frac{1}{4}$	$\frac{1}{5}$
	$\frac{1}{3}$	$\frac{1}{4}$	$\frac{1}{5}$
	$\frac{2}{5}$	$\frac{2}{7}$	$\frac{2}{9}$



ECOPHON MASTER™ PRODUCT RANGE

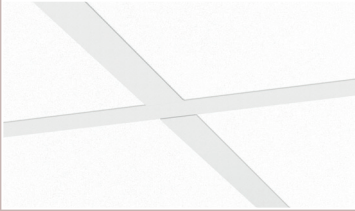
Master offer 2 installation methods. Suspended wall-to-wall ceilings with excellent acoustic properties and direct fixing solutions with screws or glue adhesive for a quick and easy acoustic upgrade.

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



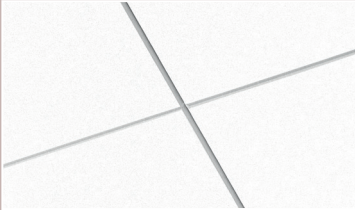
MASTER B

600x600x40
1200x600x40



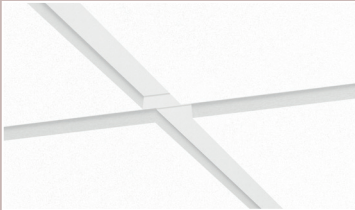
MASTER Ds

600x600x40



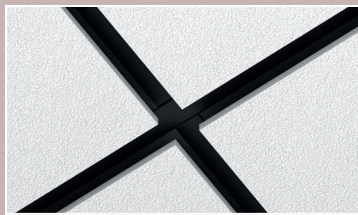
MASTER E

600x600x40
1200x600x40
1200x1200x40



MASTER Eg

600x600
1200x600
1200x1200
2400x600



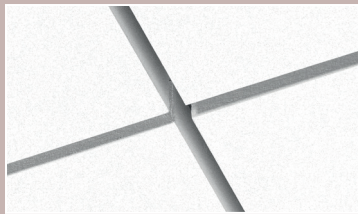
MASTER F

600x600x40
1200x600x40



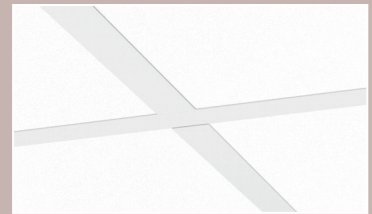
MASTER SQ

600x600x40
1200x600x40



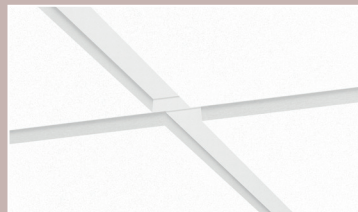
MASTER RIGID A

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



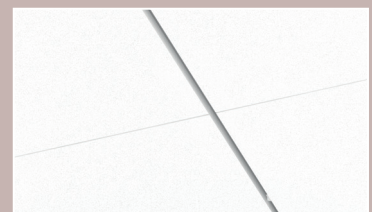
MASTER RIGID E

600x600x20
1200x600x20
1200x1200x20



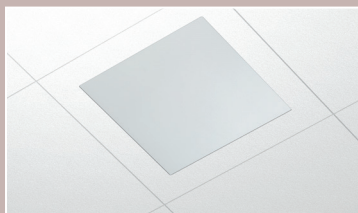
MASTER RIGID Dp

600x600x20
1200x600x20



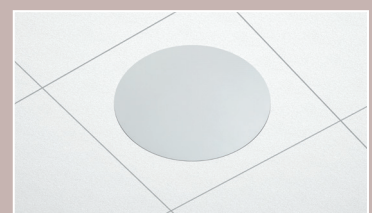
SQUARE 43

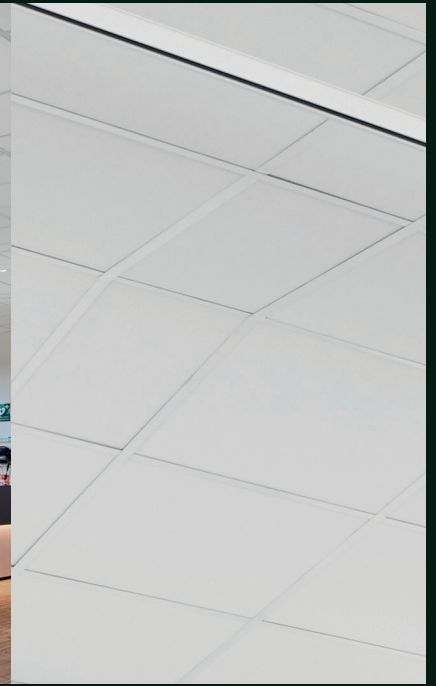
Edge Eg:
600x600x40



DOT

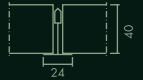
Edge Eg:
600x600x40





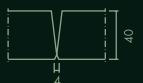
MASTER A

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



MASTER B

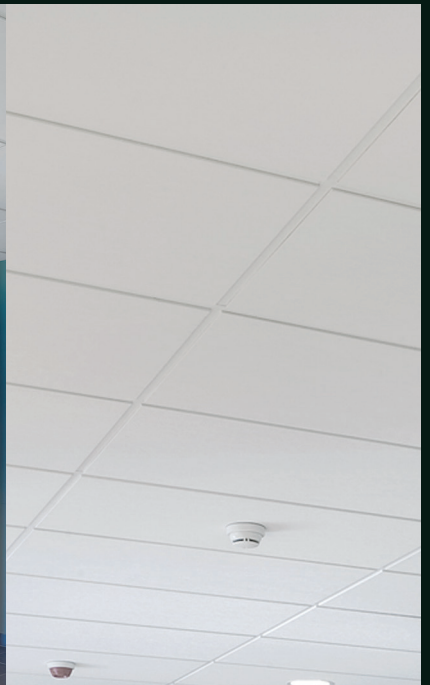
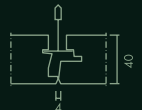
For direct fixing with glue. Ideal for installations that require minimum depth of system.





MASTER D_s

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

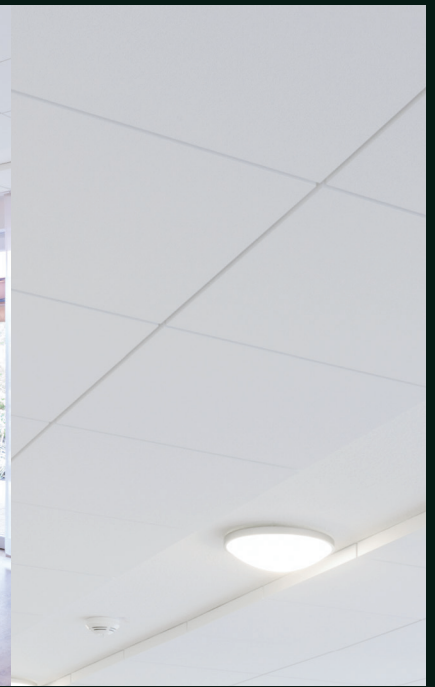
Unique edge design painted in two colours with concealed support edges and a floating appearance.



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.



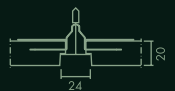
MASTER RIGID A

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



**MASTER RIGID E**

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

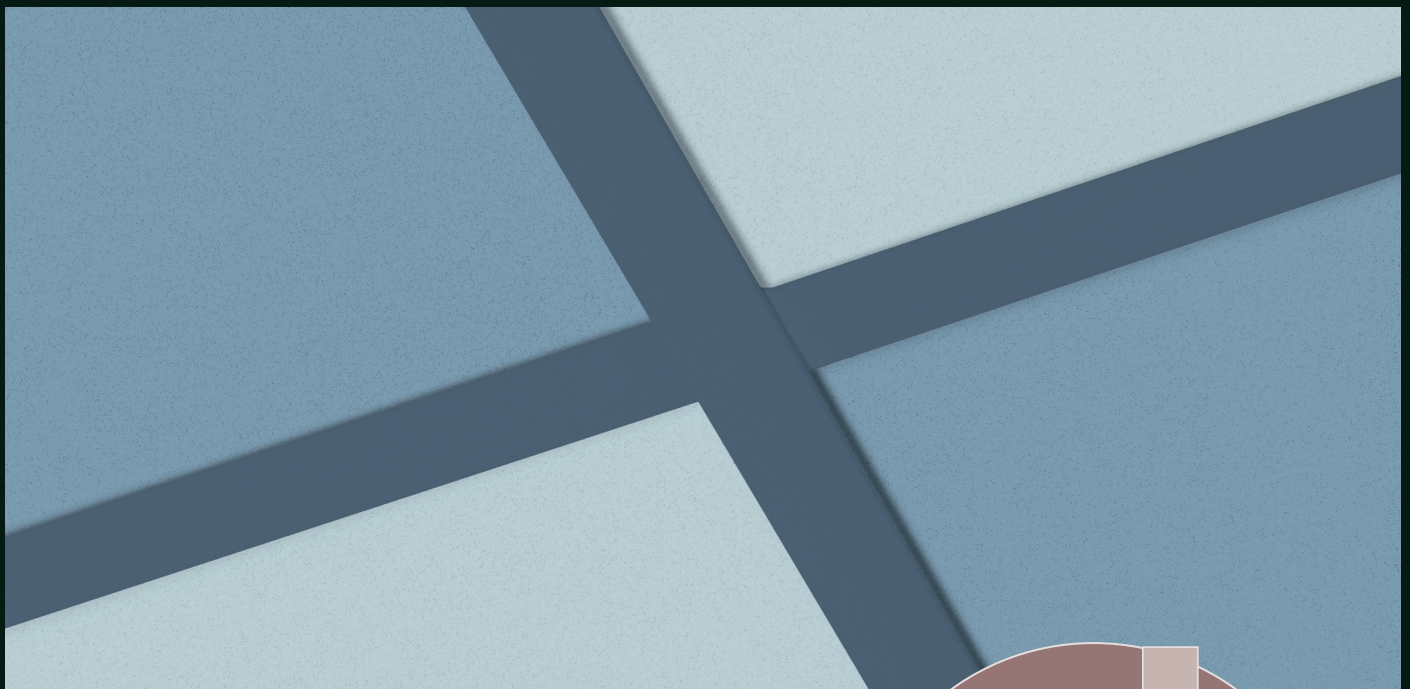




MASTER RIGID D_p

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

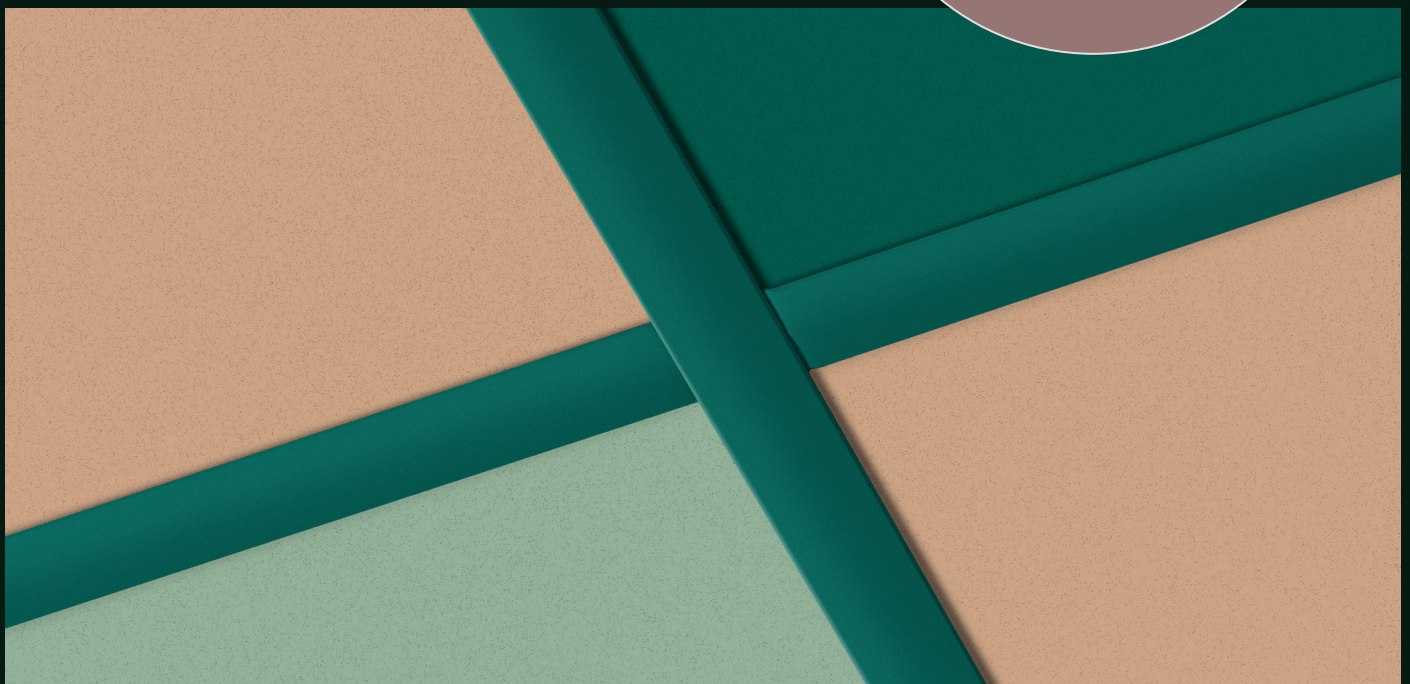




GRID COLOURS

- 22 Akutex FT colour options for grids
- Create your own design with special colours depending on volume
- Closest Akutex FT match creates subtle pattern and mixing FT colours gives more design effect

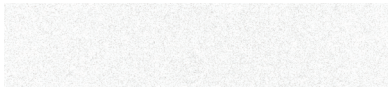
An acoustic ceiling is often the largest continuous surface in a room. It will affect not only the entire look and feel of the interior, but also the end-users' wellbeing.



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.



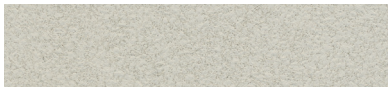
WHITE FROST | Light reflectance 85%.
Nearest NCS colour sample S 0500-N.
Grid colour NCS S 1000-N.



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



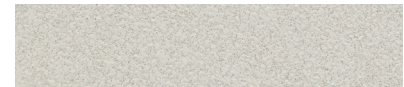
MORNING DRIZZLE | Light reflectance 69%.
Nearest NCS colour sample S 1002-B.



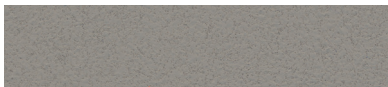
VOLCANIC ASH | Light reflectance 56%.
Nearest NCS colour sample 2002-Y.



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.



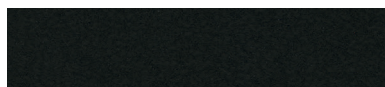
SCALLOP SHELLS | Light reflectance 76%.
Nearest NCS colour sample S 0804-Y50R.
Grid colour NCS S 0603-Y60R.



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.



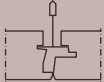

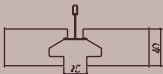





NOTE

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)
	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
	Ecophon Master Rigid E	A	T24	600x600x20 1200x600x20 1200x1200x20
	Ecophon Master Rigid Dp	A	T24	600x600x20 1200x600x20

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Ecophon Master A

Ecophon Master B

Ecophon Master Ds

Ecophon Master E

Ecophon Master Eg

Ecophon Master F

Ecophon Lighting	Possible combinations
Ecophon Dot Ecophon Square 43	
	Extra Bass 1200x600
	Extra Bass 1200x600
	Extra Bass 1200x600

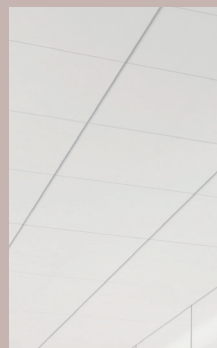


Ecophon Master panels contribute to a healthy indoor environment with superior acoustic absorption, low VOC emissions in line with the strictest requirements, and a full chemical transparency with verified Health Product Declarations. The low environmental footprint of our Solo panels is third-party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

Plant

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 Solo 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.



Ecophon Master SQ

Ecophon Master Rigid A

Ecophon Master Rigid E

Ecophon Master Rigid Dp

NOTE

More product and system information such as installation help and sustainability documentation can be found at www.ecophon.com/uk

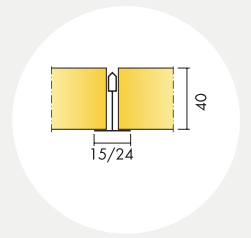


System properties

ACOUSTICS, TECHNICAL PROPERTIES AND INSTALLATION DIAGRAMS

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- 34 Master E
- 36 Master Eg
- 38 Master F
- 40 Master SQ
- 42 Master Rigid A
- 44 Master Rigid Dp
- 46 Master Rigid E
- 48 Square 43
- 49 Dot





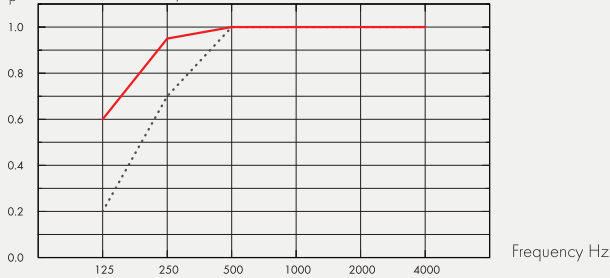
Ecophon Master™ A

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.

α_p , Practical sound absorption coefficient



..... 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

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THK mm	o.d.s. mm	α_p , Practical sound absorption coefficient						α_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)		D_{nfw}	CAC dB
	Articulation Class, ASTM E1111, ASTM E1110			
40	200		28	30

Indoor Air Quality:

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

Environmental Footprint: Master A: 5,60 (Master family EPD in conformity with ISO 14025 / EN 15804) , Master A/Plant: 3,09 (Master A/Plant 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: Master panels are tested to fire standard EN 13501-1 and classed 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.

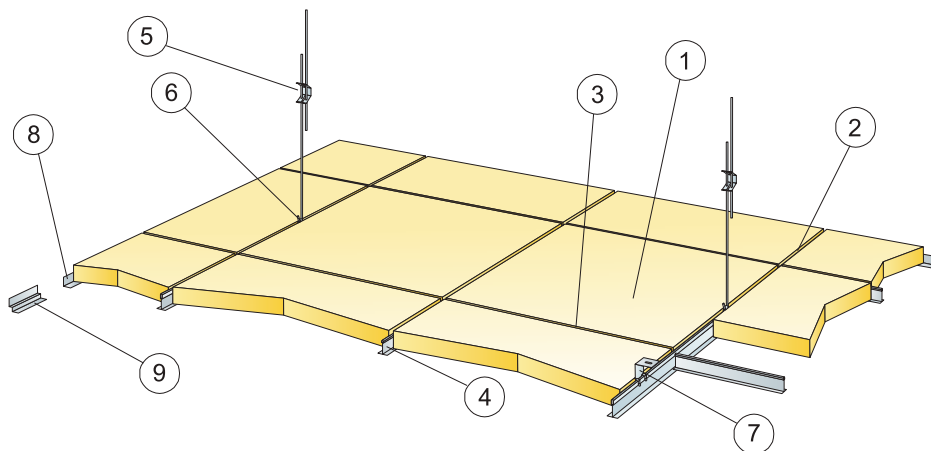
Mechanical properties: See table about Max live load and Min load bearing capacity and Functional demands, Mechanical properties at www.ecophon.com.

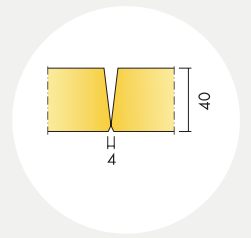
CE: Ecophon ceiling systems are CE marked according to the European harmonized standard EN13964:2014. CE marked construction products are covered by a Declaration of Performance (DOP) which enables customers and users to easily compare performance of products available on the European market.

Installation diagram in detail www.ecophon.com

M56

Installation diagram (M56) for Ecophon Master A



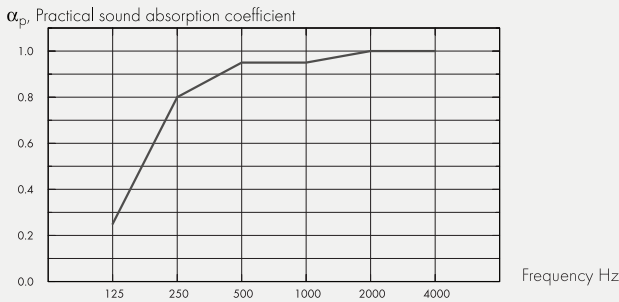


Ecophon Master™ B

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

30

THK mm	o.d.s. mm	α_p , Practical sound absorption coefficient						α_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	A	

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

Indoor Air Quality:

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

Environmental Footprint: Master B: 5,60 (Master family EPD in conformity with ISO 14025 / EN 15804) , Master B/Plant: 4,90(Master B/Plant 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: Master panels are tested to fire standard EN 13501-1 and classed 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 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.

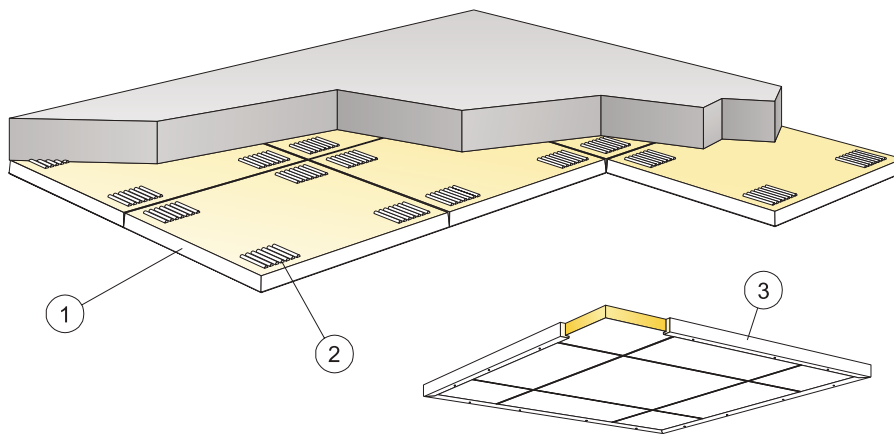
Mechanical properties: Additional live load has to be fixed to the soffit.

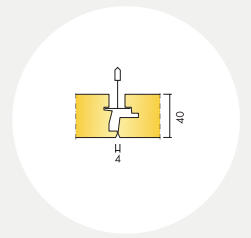
CE: Ecophon ceiling systems are CE marked according to the European harmonized standard EN13964:2014. CE marked construction products are covered by a Declaration of Performance (DOP) which enables customers and users to easily compare performance of products available on the European market.

Installation diagram in detail www.ecophon.com

M113

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





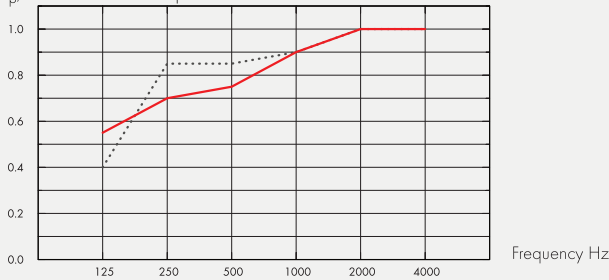
Ecophon Master™ Ds

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.

α_p , Practical sound absorption coefficient



..... 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

32

THK mm	o.d.s. mm	α_p , Practical sound absorption coefficient						α_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			
40	200		31	33

Indoor Air Quality:

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

Environmental Footprint: Master Ds: 5,60 (Master family EPD in conformity with ISO 14025 / EN 15804) , Master Ds/Plant: 4,90 (Master Ds/Plant 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 Master panels are tested to fire standard EN 13501-1 and classed 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. 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.

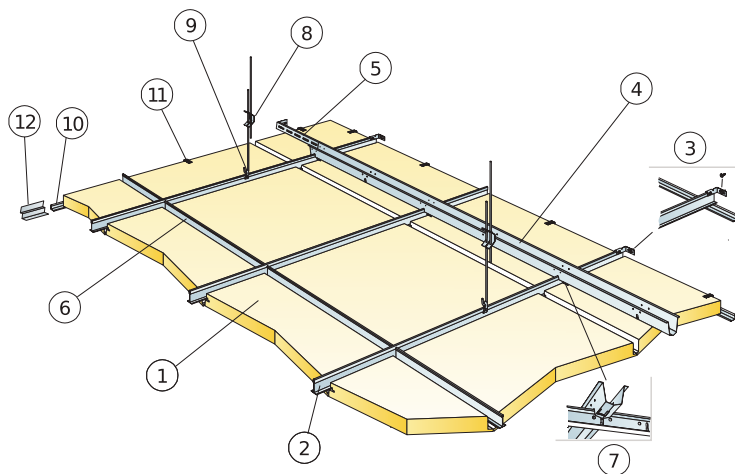
Mechanical properties: See table about Max live load and Min load bearing capacity and Functional demands, Mechanical properties at www.ecophon.com.

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.

Installation diagram in detail www.ecophon.com

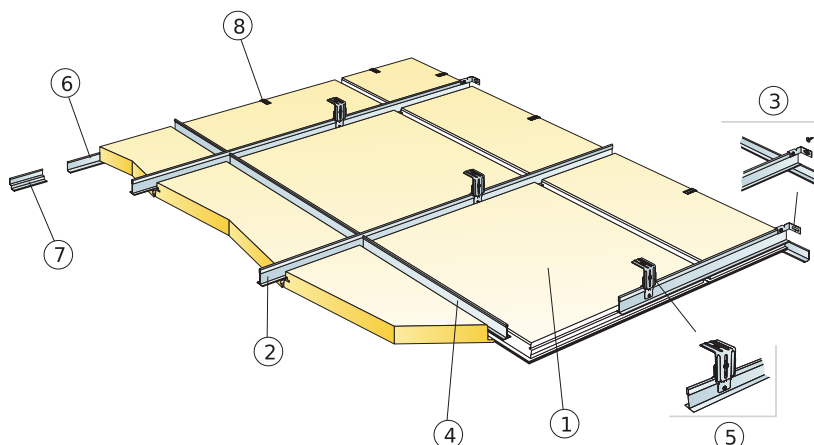
M236

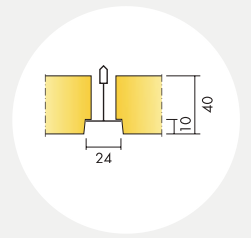
Installation diagram (M236) for Ecophon Master Ds, suspended installation



M242

Installation diagram (M242) for Ecophon Master Ds, direct installation





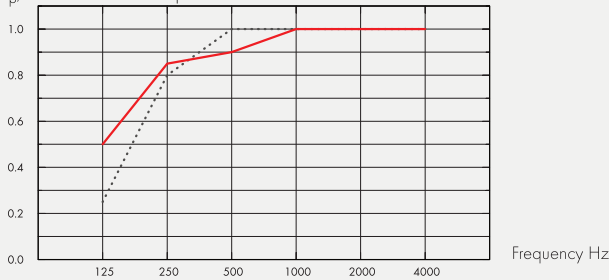
Ecophon Master™ E

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.

α_p , Practical sound absorption coefficient



..... 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

34

THK mm	o.d.s. mm	α_p , Practical sound absorption coefficient						α_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	Standard	Plant
Eurofins Indoor Air Comfort®	IAC	IAC Gold
French VOC	A	A+
Finnish M1	•	•

Environmental Footprint: Master E: 5,60 (Master family EPD in conformity with ISO 14025 / EN 15804) , Master E/Plant: 4,15 (Master E/Plant 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: Master panels are tested to fire standard EN 13501-1 and classed 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.

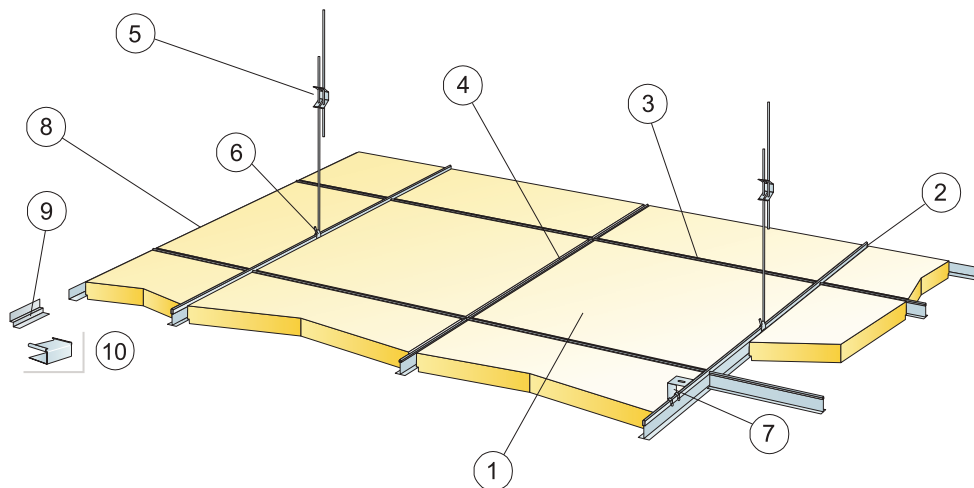
Mechanical properties: See table about Max live load and Min load bearing capacity and Functional demands, Mechanical properties at www.ecophon.com.

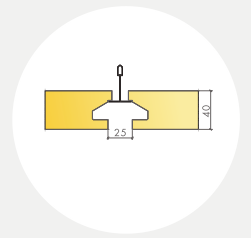
CE: Ecophon ceiling systems are CE marked according to the European harmonized standard EN13964:2014. CE marked construction products are covered by a Declaration of Performance (DOP) which enables customers and users to easily compare performance of products available on the European market.

Installation diagram in detail www.ecophon.com

M58

Installation diagram (M58) for Ecophon Master E



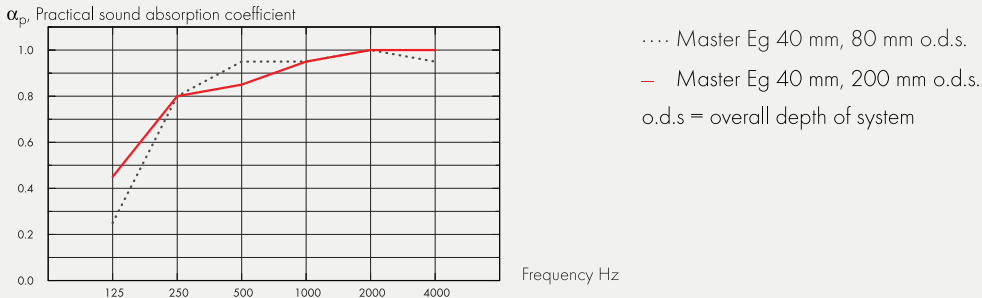


Ecophon Master™ Eg

Acoustic

Sound Absorption:

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



THK mm	o.d.s. mm	α_p , Practical sound absorption coefficient						α_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) Articulation Class, ASTM E1111, ASTM E1110
40	200

Indoor Air Quality:

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

Environmental Footprint: Master Eg: 5,60 (Master family EPD in conformity with ISO 14025 / EN 15804) , Master Eg/Plant: 4,15 (Master Eg/Plant 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: Master panels are tested to fire standard EN 13501-1 and classed 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: 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.

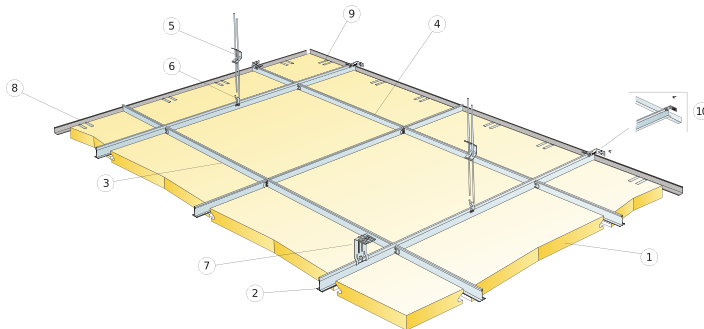
Mechanical properties: See table about Max live load and Min load bearing capacity and Functional demands, Mechanical properties at www.ecophon.com.

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

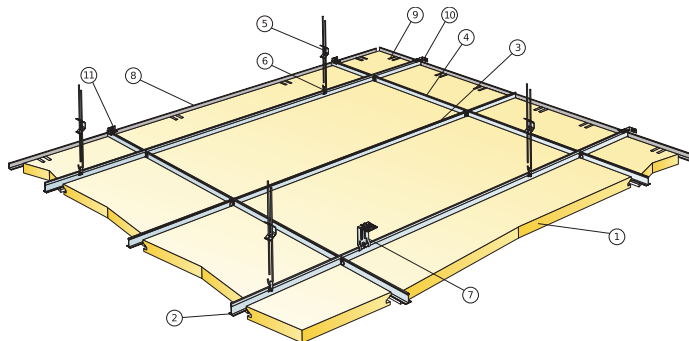
M498

Installation diagram (M498) for Ecophon Master Eg



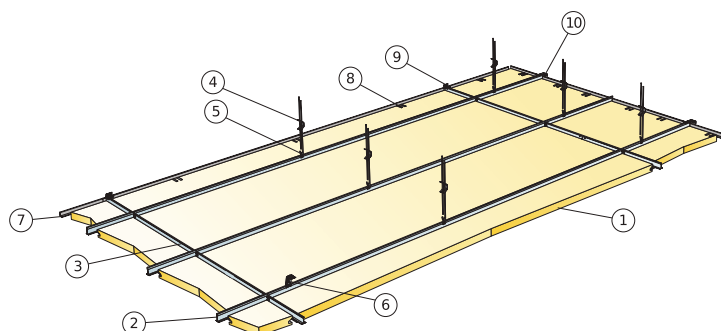
M499

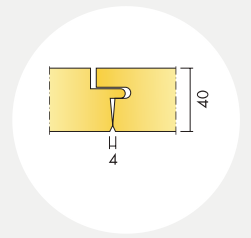
Installation diagram (M499) for Ecophon Master Eg



M500

Installation diagram (M500) for Ecophon Master Eg



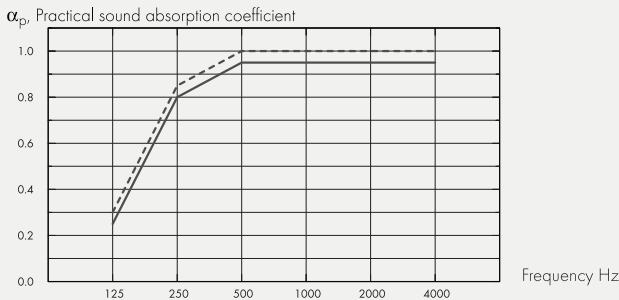


Ecophon Master™ F

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_p , Practical sound absorption coefficient						α_w	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	0.95	A
40	60	0.30	0.85	1.00	1.00	1.00	1.00	1.00	A

38

Indoor Air Quality:

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

Environmental Footprint: Master F: 5,60 (Master family EPD in conformity with ISO 14025 / EN 15804) , Master F/Plant: 4,89 (Master F/Plant 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 Master panels are tested to fire standard EN 13501-1 and classed 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 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.

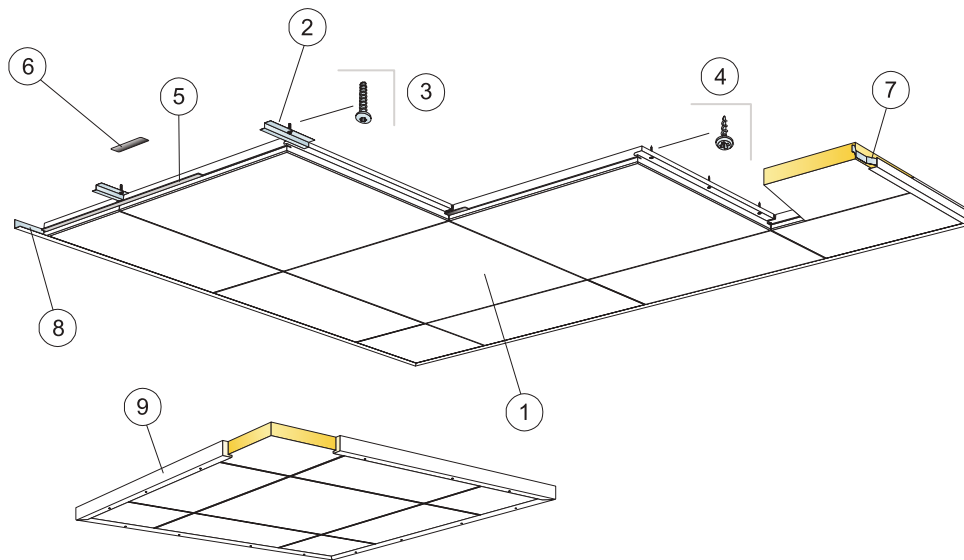
Mechanical properties: Additional live load has to be fixed to the soffit.

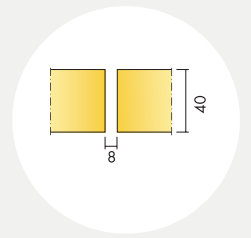
CE: Ecophon ceiling systems are CE marked according to the European harmonized standard EN13964:2014. CE marked construction products are covered by a Declaration of Performance (DOP) which enables customers and users to easily compare performance of products available on the European market.

Installation diagram in detail www.ecophon.com

M52

Installation diagram (M52) for Ecophon Master F



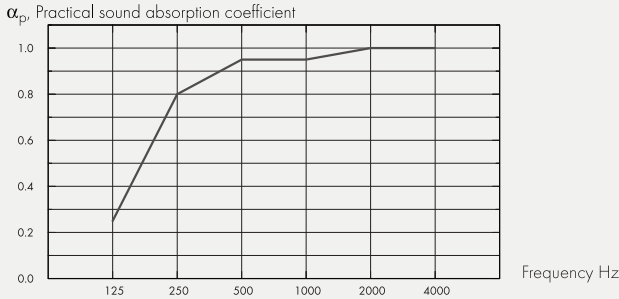


Ecophon Master™ SQ

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	α_p , Practical sound absorption coefficient						α_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

40

Indoor Air Quality:

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

Environmental Footprint: Master SQ: 5,60 (Master family EPD in conformity with ISO 14025 / EN 15804), Master SQ/Plant: 5,00 (Master SQ/Plant 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: Master panels are tested to fire standard EN 13501-1 and classed 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 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/m².

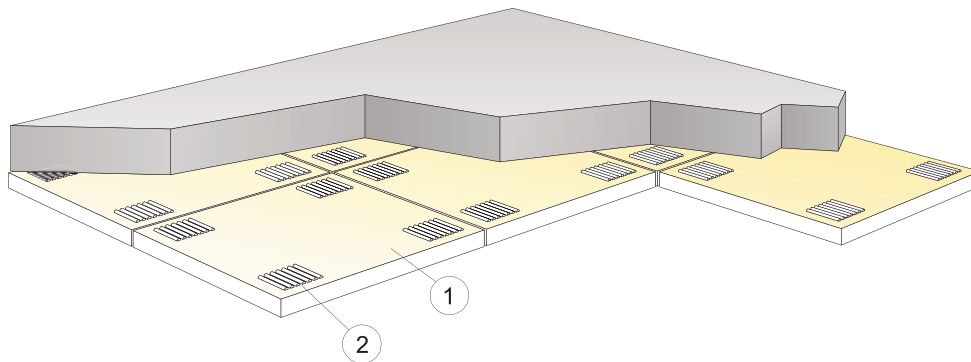
Mechanical properties: Additional live load has to be fixed to the soffit.

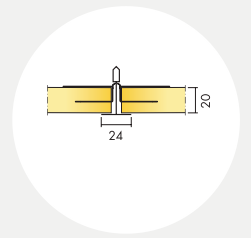
CE: Ecophon ceiling systems are CE marked according to the European harmonized standard EN13964:2014. CE marked construction products are covered by a Declaration of Performance (DOP) which enables customers and users to easily compare performance of products available on the European market.

Installation diagram in detail www.ecophon.com

M106

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



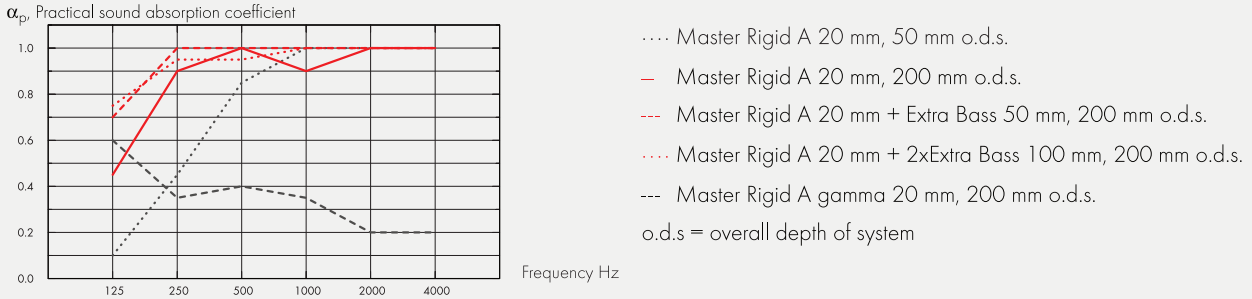


Ecophon Master™ Rigid A

Acoustic

Sound Absorption:

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



42

	THK mm	o.d.s. mm	α_p , Practical sound absorption coefficient						α_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	Standard	Plant
Eurofins Indoor Air Comfort®	IAC	IAC Gold
French VOC	A	A+
Finnish M1	•	•

Environmental Footprint: Master Rigid A: 3,00 (Master Rigid family EPD in conformity with ISO 14025 / EN 15804) , Master Rigid A/Plant: 3,31 (Master Rigid A/Plant 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: Master panels are tested to fire standard EN 13501-1 and classed 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 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/m².

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

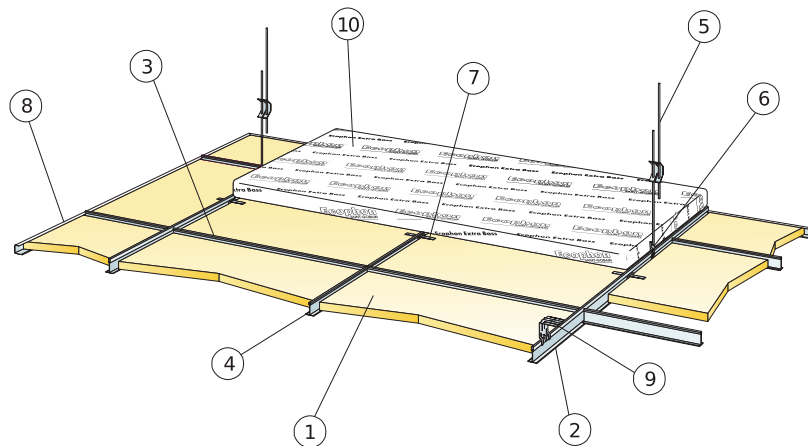
Impact Resistance: M316: 3A,

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.

Installation diagram in detail www.ecophon.com

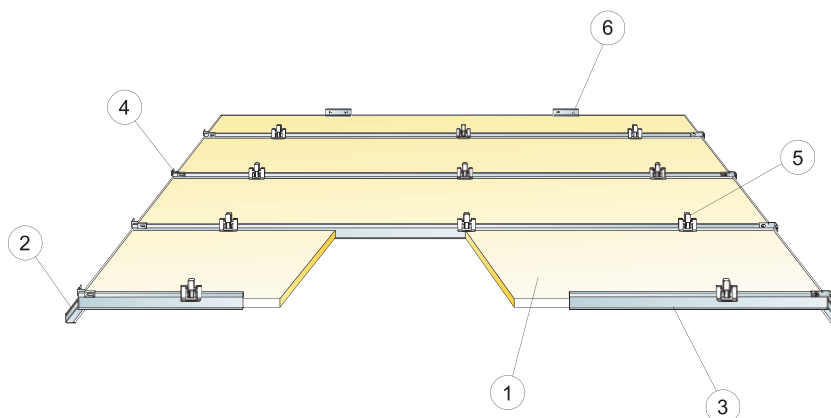
M316EB

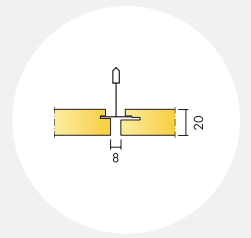
Installation diagram (M316EB) for Ecophon Master Rigid A



M333

Installation diagram (M333) for Ecophon Master Rigid A XL in corridors



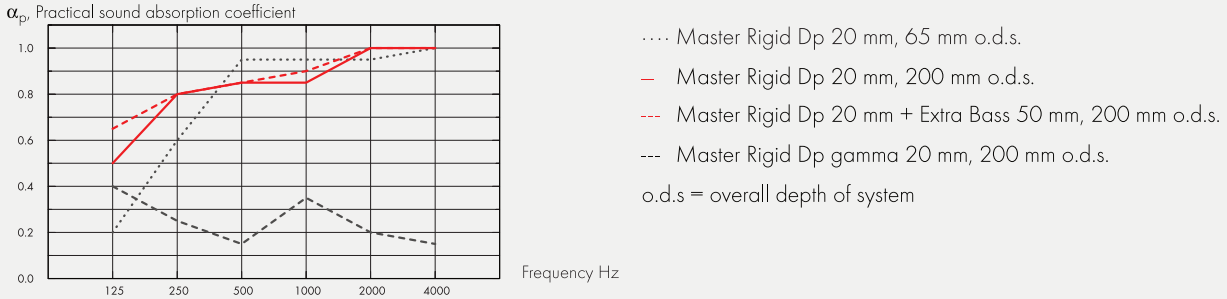


Ecophon Master™ Rigid Dp

Acoustic

Sound Absorption:

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



44

	THK mm	o.d.s. mm	α_p , Practical sound absorption coefficient						α_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	Standard	Plant
Eurofins Indoor Air Comfort®	IAC	IAC Gold
French VOC	A	A+
Finnish M1	•	•

Environmental Footprint: Master Rigid Dp: 3,00 (Master Rigid family EPD in conformity with ISO 14025 / EN 15804) , Master Rigid Dp/Plant: 4,58 (Master Rigid Dp/Plant 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: Master panels are tested to fire standard EN 13501-1 and classed 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 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/m².

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

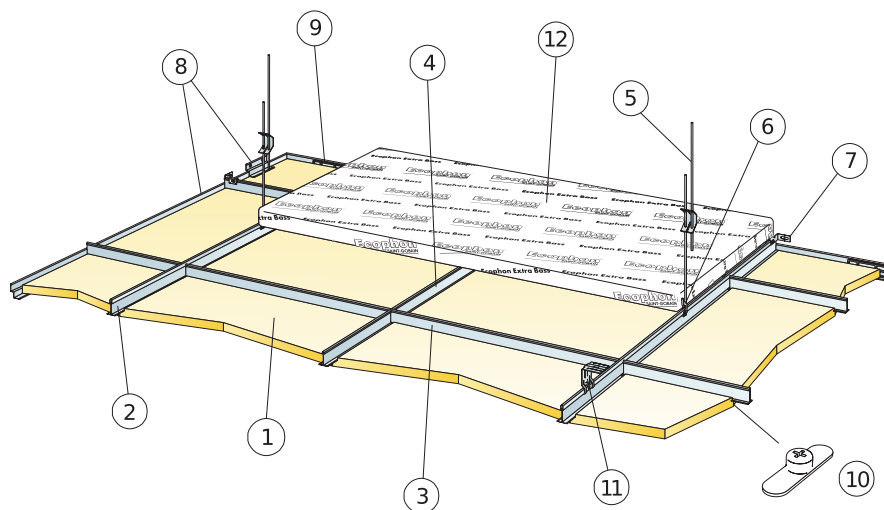
Impact Resistance: Tested and classified according to EN 13964 annex D. M318: 3A,

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

M318EB

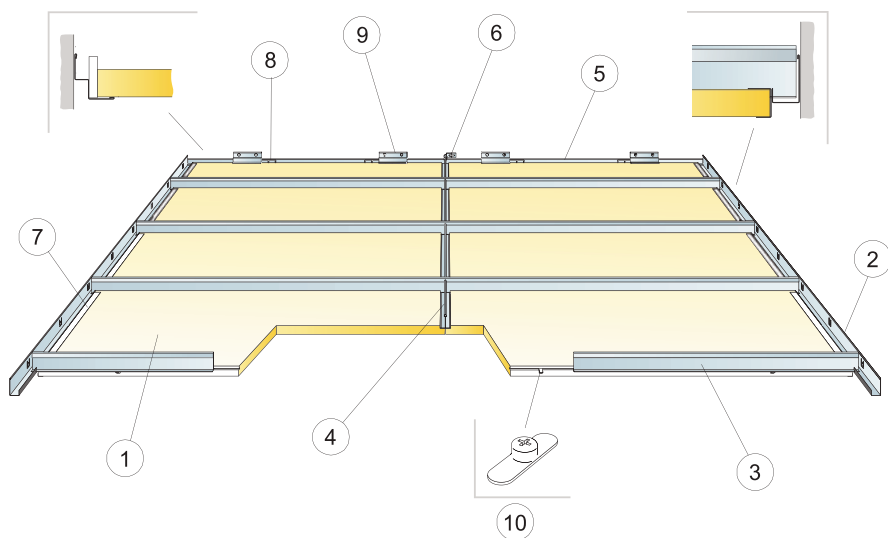
Installation diagram (M318EB) for Ecophon Master Rigid Dp

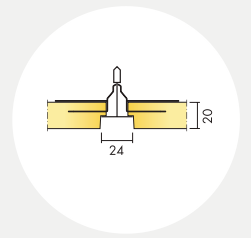


45

M319

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



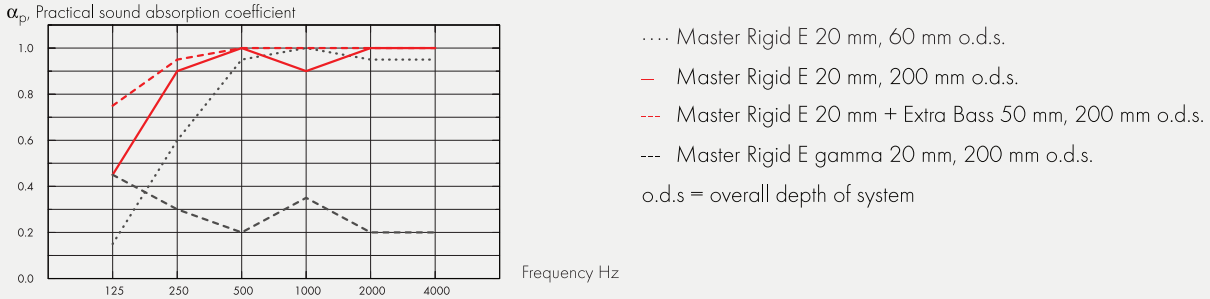


Ecophon Master™ Rigid E

Acoustic

Sound Absorption:

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



46

	THK mm	o.d.s. mm	α_p , Practical sound absorption coefficient						α_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	Standard	Plant
Eurofins Indoor Air Comfort®	IAC	IAC Gold
French VOC	A	A+
Finnish M1	•	•

Environmental Footprint: Master Rigid E: 3,00 (Master Rigid family EPD in conformity with ISO 14025 / EN 15804) , Master Rigid E/Plant: 4,08 (Master Rigid E/Plant 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: Master panels are tested to fire standard EN 13501-1 and classed 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 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/m².

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

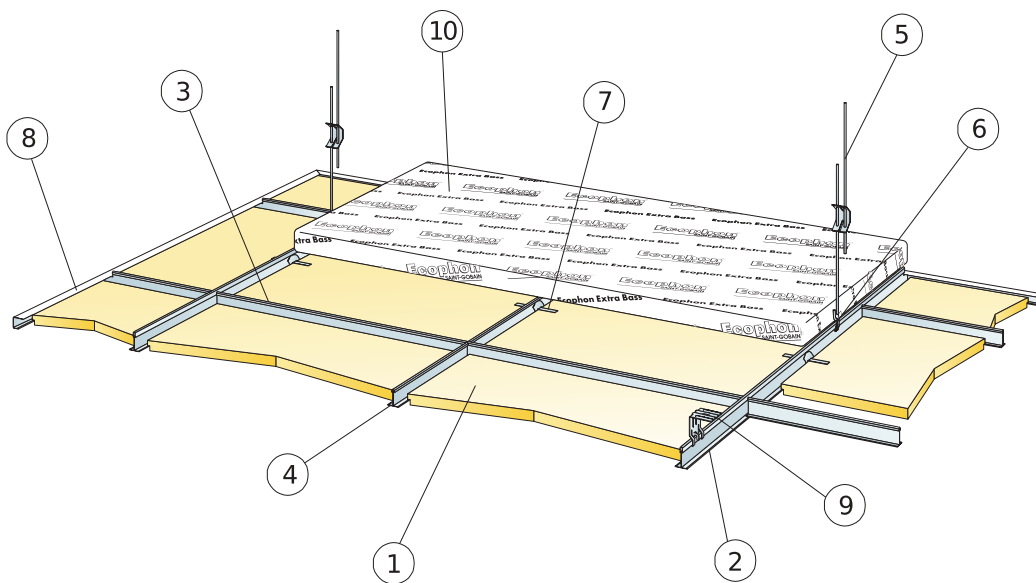
Impact Resistance: Tested and classified according to EN 13964 annex D. M317: 3A,

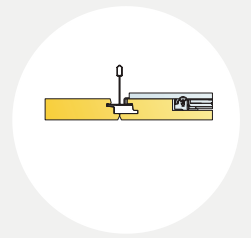
CE: Ecophon ceiling systems are CE marked according to the European harmonized standard EN13964:2014. CE marked construction products are covered by a Declaration of Performance (DOP) which enables customers and users to easily compare performance of products available on the European market.

Installation diagram in detail www.ecophon.com

M317EB

Installation diagram (M317EB) for Ecophon Master Rigid E





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.

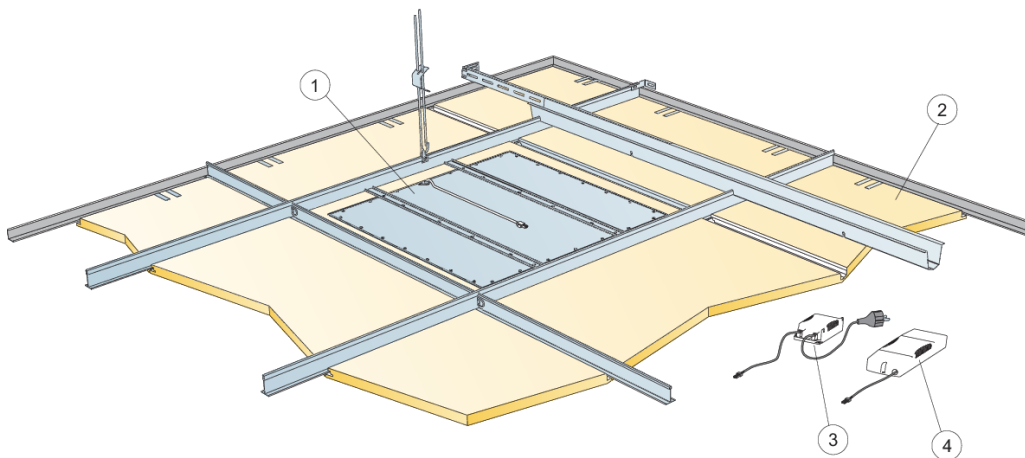
Cleanability: Daily dusting and vacuum cleaning. Weekly wet wiping.

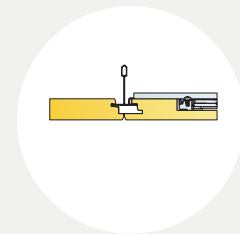
Accessibility: The tiles are easily demountable. Minimum demounting depth according to installation diagrams.

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. M516 and M518 available as installation options

Installation diagram in detail www.ecophon.com

M516





Ecophon Dot™

Lighting performance:

System effect Dot: 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.

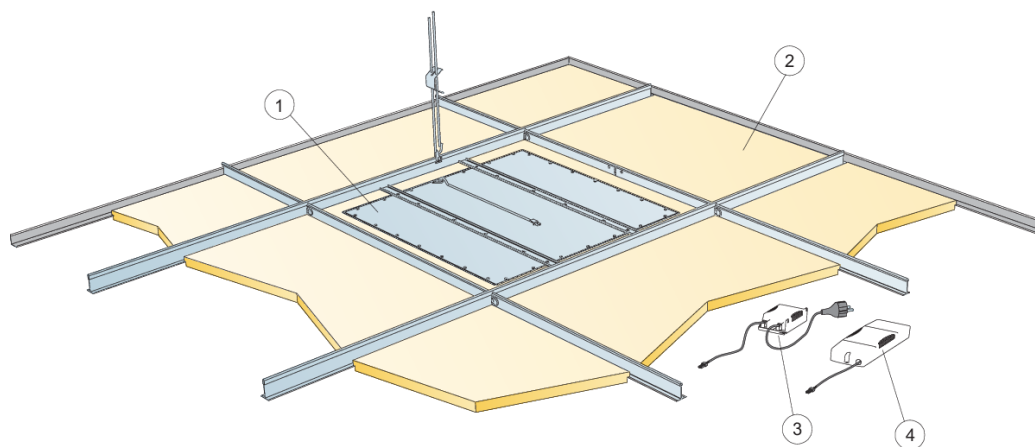
Cleanability: Daily dusting and vacuum cleaning. Weekly wet wiping.

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. M516 and M518 available as installation options

Installation diagram in detail www.ecophon.com

M518







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.


SAINT-GOBAIN
– making the world
a better home.



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/uk or contact your nearest Ecophon representative.