

Ecophon Master™ A

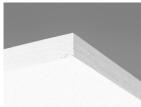
Ecophon Master™ A has an exposed grid system. Each tile is easily demountable. Suitable for open plan offices or other premises where strict demands are made on good acoustics and speech intelligibility, and where demountability is vital.



SYSTEM RANGE

64	Size, mm	600x600
	Connect T15	•
	Connect T24	•
	Thickness (THK)	40
	Inst. Diagr.	M56

15/24







Master A tile

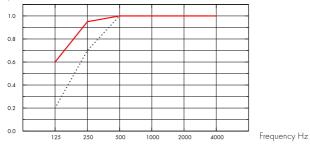
Acoustic



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.

 $lpha_{
m p\prime}$ 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

THK mm	o.d.s. mm	$\alpha_{p'}$ Practical sound absorption coefficient						α	Sound absorption class
		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz		oound absorption class
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

тнк	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	All Products	SOR AIR COM
Eurofins Indoor Air Comfort®	IAC Gold	
French VOC	A+	
Finnish M1	•	-



Cradle to Cradle Certified®

This product is Cradle to Cradle Certified® at Bronze level (version 4.0).

CE



Material Health

This product has received a C2C Certified Material Health Certificate™ at the Silver level (standard version 4.0). The C2C Certified Material Health Certificate™ is a verification of the health and safety of a product's composition using the Material Health requirements of the Cradle-to-Cradle Certified Product Standard.



Environmental Footprint

Kg CO2 equiv/m²: 3,70 From EPD in conformity with ISO 14025 / EN 15804



Circularity

Minimum post-consumer recycled content	59%
Recyclability	Fully recyclable



Fire safety

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



Humidity Resistance

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



Visual appearance

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



Cleanability

Daily dusting and vacuum cleaning. Weekly wet wiping.



Accessibility

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



Installation

Installed according to installation diagrams, installationguides and drawing aid. For information regarding minimum overall depthof system see quantity specification.



System weight

	kg/m²
Master A	2,5
Master A + Connect grid system	3,5

Weight information is indicative and subject to variation.

R	
kg	
\bigcirc	

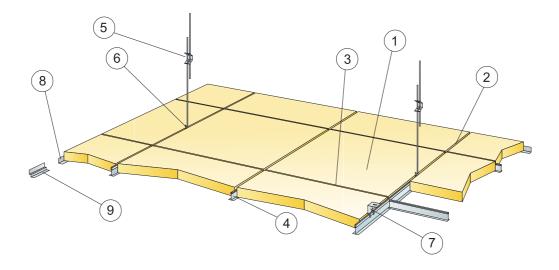
Mechanical properties

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

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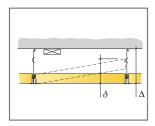
Ecophon ceiling systems are CE marked according to the European harmonized standard EN13964:2014. CE marked construction products are covered by a Declaration of Performance (DOP) which enables customers and users to easily compare performance of products available on the European market.

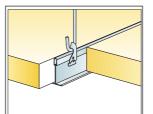


QUANTITY SPECIFICATION (EXCL. WASTAGE)

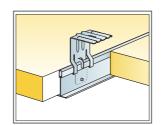
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Size, mm
600×600
2,8/m²
0,9m/m²
1,7m/m²
0,9m/m²
0,7/m²
0,7/m²
0,7/m²
as required
as required
-





Suspension with adjustable hanger and clip



Suspension with direct bracket

Size, mm Max live Min load bearing load (N) capacity (N) 600x600x40 40 160



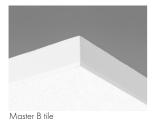
Ecophon Master[™] B

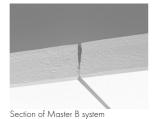
Ecophon Master™ B tiles are bonded edge-to-edge directly to the soffit surface, creating a ceiling with a smooth appearance. The bevelled edge creates a narrow groove between each tile. For applications where the minimum possible overall depth of system is required.



SYSTEM RANGE

40	Size, mm	600x600	1200x600		
	Direct	•	•		
	Thickness (THK)	40	40		
	Inst. Diagr.	M113	M113		







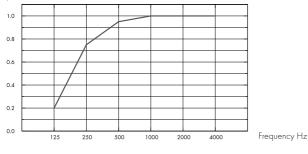
Acoustic



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.

 $lpha_{
m p\prime}$ Practical sound absorption coefficient



Master B 40 mm, 43 mm o.d.s.

o.d.s = overall depth of system

THK mm	o.d.s. mm		$lpha_{ m p}$, Practical sound absorption coefficient					α	Sound absorption class
		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz		Sound absorption class
40	43	0.20	0.75	0.95	1.00	1.00	1.00	1.00	A

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



Indoor Air Quality

Certificate / Label	All Products	ÉMESSIONS DANS L'AIR INTÉRIEUR
Eurofins Indoor Air Comfort®	IAC Gold	
French VOC	A+	
Finnish M1	•	-



Material Health

This product has received a C2C Certified Material Health Certificate™ at the Silver level (standard version 4.0). The C2C Certified Material Health Certificate™ is a verification of the health and safety of a product's composition using the Material Health requirements of the Cradle-to-Cradle Certified Product Standard.



Cradle to Cradle Certified®

This product is Cradle to Cradle Certified® at Bronze level (version 4.0).

Environmental Footprint

kg CO2

Master B

cquiv/	
	7,30

Life-cycle stages A1 to C4 from EPD, in conformity with ISO 14025 / EN 15804 $\,$



Circularity

)	Minimum post-consumer recycled content	62%	
	Recyclability	Fully recyclable	

Fire safety

)	Country	Fire standard	Class	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	non-combusible according to LTV 150-1162.



Humidity Resistance

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



Visual appearance

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



Cleanability

Daily dusting and vacuum cleaning. Weekly wet wiping.



Accessibility

The tiles are not demountable.



Installation

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



System weight

	kg/m²	Weight information is indicative and subject to variation.
Master B	3,6	-



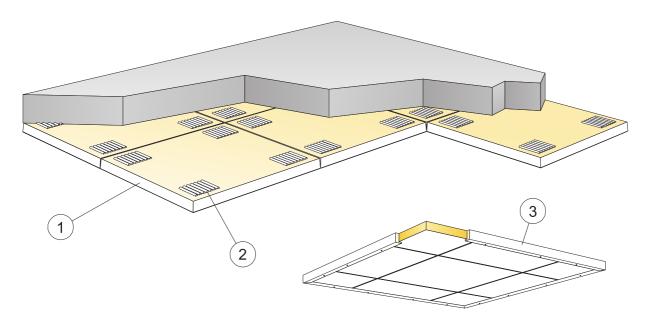
Mechanical properties

Additional live load has to be fixed to the soffit.

CE

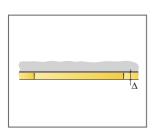
Ecophon ceiling systems are CE marked according to the European harmonized standard EN13964:2014. CE marked construction products are covered by a Declaration of Performance (DOP) which enables customers and users to easily compare performance of products available on the European market.

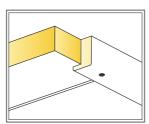
INSTALLATION DIAGRAM (M113) FOR ECOPHON MASTER B, USING CONNECT ABSORBER GLUE



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Q	UANTITY SPECIFICATION (EXCL. WASTAGE)		
		Size, mm	
		600x600	1200×600
1	Master B	2,8/m²	1,4/m²
2	Connect Absorber glue (0,25 l/m² - 0,4 l/m² depending on installation conditions)	as required	as required
	Use Connect Notched spatula to apply the glue.	-	
3	When installing floating ceilings: Connect Wood trim, L=3000, fixed at 500 mm centres	as required	as required
	Δ Min. overall depth of system: 43 mm	-	
	δ Min. demounting depth: The system is not demountable	-	
	Cut visible edges should be painted		-
-			





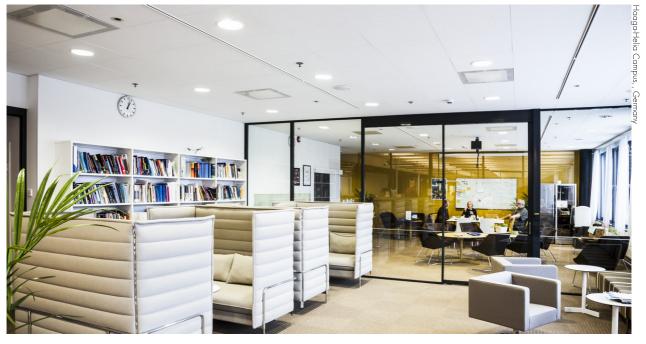
Wood trim for floating installation

Size, mm	Max live load (N)	Min load bearing capacity (N)
600x600x40	-	÷
1200x600x40		



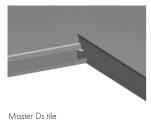
Ecophon Master[™] Ds

Ecophon Master™ Ds has a concealed grid and symmetrical edge design, allowing for easy assembly, and integration of light fittings and ventilation. For applications where a suspended ceiling with a concealed grid is required, but individual tiles must be easily demountable.



SYSTEM RANGE

	Size, mm	600x600
<u><u> </u></u>		•
	Thickness (THK)	40
	Inst. Diagr.	M626, M627, M628







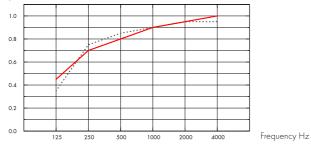
Acoustic



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.

 $lpha_{
m p\prime}$ 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

ТНК	o.d.s. mm	$lpha_{ m p}$, Practical sound absorption coefficient					α	Sound absorption class	
mm		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	~~ _W	
40	95	0.35	0.75	0.85	0.90	0.95	0.95	0.90	A
40	200	0.45	0.70	0.80	0.90	0.95	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

ТЫ	1K	AC(1.5)	D _{nfw}	CAC dB
THK mm		Articulation Class, ASTM E1111, ASTM E1110	Weighted normalized flanking level difference, ISO 10848-2	Ceiling Attenuation Class, ASTM 1414, ASTM E413
40	0	200	31	33



Indoor Air Quality

Certificate / Label	All Products	EMISSIONS DANS L'AIR INTÉRIEUR
Eurofins Indoor Air Comfort®	IAC Gold	
French VOC	A+	
Finnish M 1	•	-



Cradle to Cradle Certified®

This product is Cradle to Cradle Certified® at Bronze level (version 4.0).

CE



Material Health

This product has received a C2C Certified Material Health Certificate™ at the Silver level (standard version 4.0). The C2C Certified Material Health Certificate™ is a verification of the health and safety of a product's composition using the Material Health requirements of the Cradle-to-Cradle Certified Product Standard.



Environmental Footprint

$\sum_{i=1}^{n}$		kg CO2 equiv/m²	Life-cycle stages A1 to C4 from EPD, in conformity with ISO 14025 / EN 15804
	Master Ds	7,10	140z3 / EIN 13804



Circularity

Minimum post-consumer recycled content	63%
Recyclability	Fully recyclable



Fire safety

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



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

	kg/m²
Master Ds	4,4
Master Ds + Connect grid system	5,3

Weight information is indicative and subject to variation.



Mechanical properties

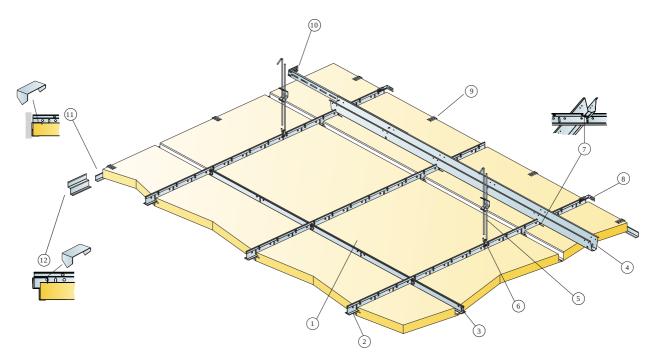
See table about Max live load and Min load bearing capacity and Functional demands, Mechanical properties at www.ecophon.com.

CE

CE

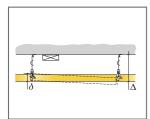
Ecophon ceiling systems are CE marked according to the European harmonized standard EN13964:2014. CE marked construction products are covered by a Declaration of Performance (DOP) which enables customers and users to easily compare performance of products available on the European market.

INSTALLATION DIAGRAM (M626) FOR ECOPHON MASTER DS. SUSPENDED INSTALLATION

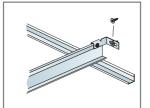


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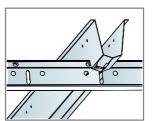
quantity specification (excl. wastage)	
	Size, mm
	600x600
Master Ds	2,8/m²
Connect T24 Main Runner PL, installed at 600 mm centres	1,7m/m²
Connect T24 Cross Tee, L=600 mm	2/row of Main runner
Connect Space Bar, installed at 1500 mm centres (max. distance from wall 300 mm)	0,7m/m²
Connect Adjustable hanger, installed at 1200 mm centres (max. distance from wall 600 mm)	0,7/m²
Connect Hanger Clip (not to be used in swimming hall environments)	0,7/m²
Connect Space Bar Winch, installed one per joint Connect Main Runner/Connect Space Bar	1,4/m²
Connect Wall Bracket for T-profiles	1/suspended row of Main runner
Connect Perimeter tile clip 40	1/300-400mm on any cut edge
0 Connect Wall Bracket, L=700 mm, for Connect Space Bar	1/row of Space bar
1 Connect Angle Trim, fixed at 300 mm centres	as required
2 Connect Shadow-line Trim, fixed at 200 mm centres	as required
Δ Min. overall depth of system: 140 mm	
δ Min. demounting depth: 50 mm	
For luminaire integration in panels use Connect Bridging	



See Quantity Specification

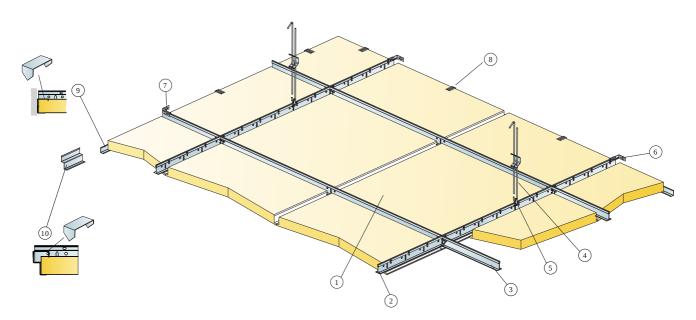


Connect Wall bracket for T-profiles



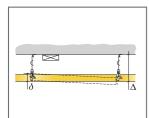
Connection between profiles with space bar winch

Size, mm Max live Min load bearing load (N) capacity (N) 600x600x40 20 160

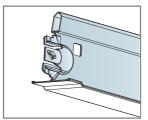


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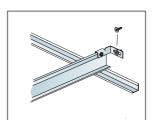
JANTITY SPECIFICATION (EXCL. WASTAGE)	
	Size, mm
	600×600
Master Ds	2,8/m²
Connect T24 Main Runner PL, installed at 1200 mm centres	0,9m/m²
Connect T24 Cross Tee PL, L=1200 mm, installed at 600 mm centres	1,7m/m²
Connect Adjustable hanger, installed at 1200 mm centres (max. distance from wall 600 mm)	0,7/m²
Connect Hanger Clip (not to be used in swimming hall environments)	0,7/m²
Connect Wall Bracket, fixed 1200mm centres for Main runner	2/suspended row of Main runner
Connect Wall Bracket, fixed 1200mm centres for Cross tee	1/row of cross tee
Connect Perimeter tile clip 40	1/perimeter tile
Connect Angle Trim, fixed at 300 mm centres	as required
Connect Shadow-line Trim, fixed at 200 mm centres	as required
Δ Min. overall depth of system: 140 mm	
δ Min. demounting depth: 50 mm	
For luminaire integration in panels use Connect Bridging	
	Connect T24 Main Runner PL, installed at 1200 mm centres Connect T24 Cross Tee PL, L=1200 mm, installed at 600 mm centres Connect Adjustable hanger, installed at 1200 mm centres (max. distance from wall 600 mm) Connect Hanger Clip (not to be used in swimming hall environments) Connect Wall Bracket, fixed 1200mm centres for Main runner Connect Wall Bracket, fixed 1200mm centres for Cross tee Connect Perimeter tile clip 40 Connect Shadow-line Trim, fixed at 200 mm centres Connect Shadow-line Trim, fixed at 200 mm centres Δ Min. overall depth of system: 140 mm δ Min. demounting depth: 50 mm



See Quantity Specification



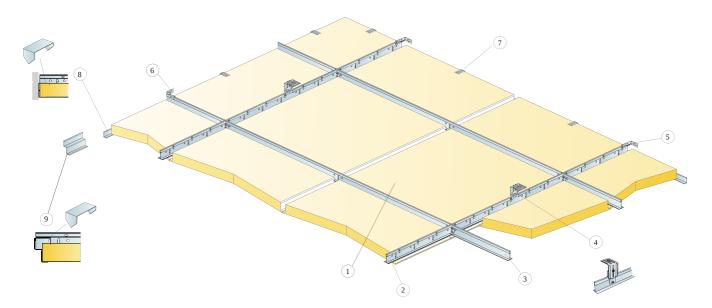
Cross tee PL



Connect Wall bracket for T-profiles

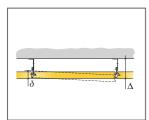
Size, mm Max live Min load bearing load (N) capacity (N) 600x600x40 35 160

INSTALLATION DIAGRAM (M628) FOR ECOPHON MASTER DS 600X600 MM. DIRECT INSTALLATION

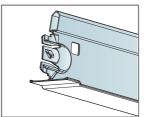


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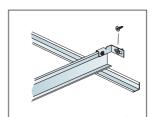
Q	uantity specification (excl. wastage)	
		Size, mm
		600x600
1	Master Ds	2,8/m ²
2	Connect T24 Main Runner PL, installed at 1200 mm centres	0,9m/m²
3	Connect T24 Cross Tee PL, L=1200 mm, installed at 600 mm centres	1,7m/m²
4	Connect Adjust direct bracket, installed at 1200 mm centres	0,7/m ²
5	Connect Wall Bracket, fixed 1200mm centres for Main runner	2/suspended row of Main runner
6	Connect Wall Bracket, fixed 1200mm centres for Cross tee	1/row of cross tee
7	Connect Perimeter tile clip 40	1/perimeter tile
8	Connect Angle Trim, fixed at 300 mm centres	as required
9	Connect Shadow-line Trim, fixed at 200 mm centres	as required
	Δ Min. overall depth of system: 95 mm	
	δ Min. demounting depth: 50 mm	
	For luminaire integration in panels use Connect Bridging	



See Quantity Specification



Cross tee PL



Connect Wall bracket for T-profiles

Size, mm Max live Min load bearing load (N) capacity (N) 600x600x40 35 160



Ecophon Master[™] E

Ecophon Master™ E has a recessed visible grid and a tegular edge design, creating a ceiling with a shadow effect that accentuates each tile and partially conceals the grid system. Suitable for open plan offices or other premises where strict demands are made on good acoustics.



SYSTEM RANGE

40	Size, mm	600x600	1200x600	1200×1200
	Connect T15	•	•	
	Connect T24	•	•	•
	Thickness (THK)	40	40	40
	Inst. Diagr.	M58	M58	M567





Master E tile

Acoustic

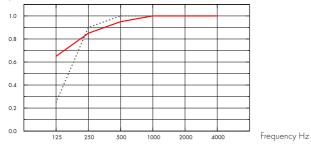


Sound Absorption:

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 E system

 $lpha_{
m p\prime}$ 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

THK	o.d.s. mm	$lpha_{ m p\prime}$ Practical sound absorption coefficient				α"	Sound absorption class		
mm	0.0.3. 11111	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	~~ _W	
40	60	0.25	0.90	1.00	1.00	1.00	1.00	1.00	A
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

ТНК	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	29	31



Indoor Air Quality

Certificate / Label	All Products	EMISSIONS DANS L'AIR INTÉRIEUR
Eurofins Indoor Air Comfort®	IAC Gold	
French VOC	A+	
Finnish M1	•	-



Cradle to Cradle Certified®

This product is Cradle to Cradle Certified® at Bronze level (version 4.0).

6



Material Health

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Environmental Footprint

<u> </u>	kg CO2 equiv/m²		Life-cycle stages A1 to C4 from EPD, in conformity with ISO 14025 / FN 15804		
	Master E	6,10	- 14023 / EIN 13604		



Circularity

Minimum post-consumer recycled content	61%
Recyclability	Fully recyclable



Fire safety

)	Country	Fire standard	Class	The glass wool core of the tiles is tested and classified as
-	Europe	en 13501-1	A2-s1,d0	non-combustible according to EN ISO 1182.



Humidity Resistance

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



Visual appearance

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



Cleanability

Daily dusting and vacuum cleaning. Weekly wet wiping.



Accessibility

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



Installation

Installed according to installation diagrams, installationguides and drawing aid. For information regarding minimum overall depthof system see quantity specification.



System weight

	kg∕m²	Weig
Master Ds	4,4	
Master Ds + Connect grid system	5,3	-

Weight information is indicative and subject to variation.

	5	2	
	k	g	
ζ	_	_	

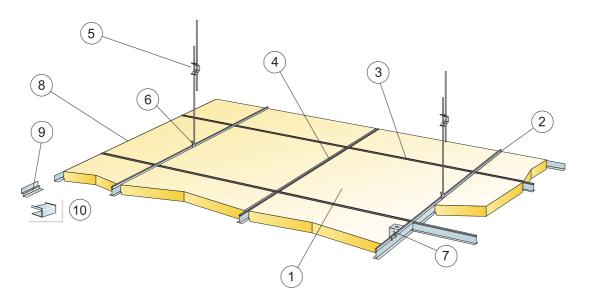
Mechanical properties

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

CE

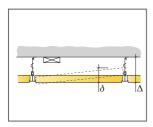
CE

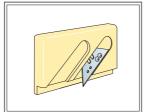
Ecophon ceiling systems are CE marked according to the European harmonized standard EN13964:2014. CE marked construction products are covered by a Declaration of Performance (DOP) which enables customers and users to easily compare performance of products available on the European market.



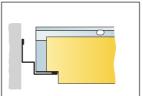
© Ecophon Group

QUANTITY SPECIFICATION (EXCL. WASTAGE)			
	Size, mm		
	600×600	1200x600	
1 Master E	2,8/m²	1,4/m²	
2 Connect T24 or T15 Main runner, installed at 1200 mm centres (max. distance from wall 600 mm, can be extended up to 1200 mm if no live load between Main runner and wall).	0,9m/m²	0,9m/m²	
3 Connect T24 or T15 Cross tee, L=1200 mm	1,7m/m²	1,7m/m²	
4 Connect T24 or T15 Cross tee, L=600 mm	0,9m/m²		
5 Connect Adjustable hanger, installed at 1200 mm centres (max. distance from wall 600 mm)	0,7/m²	0,7/m²	
5 Connect Hanger Clip (not to be used in swimming hall environments)	0,7/m²	0,7/m²	
7 For direct installation: Connect Direct Bracket, installed at 1200 mm centres	0,7/m²	0,7/m²	
3 Connect Angle trim, fixed at 300 mm centres	as required	as required	
9 Connect Shadow-line trim, fixed at 300 mm centres	as required	as required	
10 Connect Eplug (for Shadow-line trim)	as required	as required	
Δ Min. overall depth of system, with adjustable hanger: 110 mm, with direct bracket: 60 mm			
δ Min. demounting depth: 170 mm			





Cutting tool E



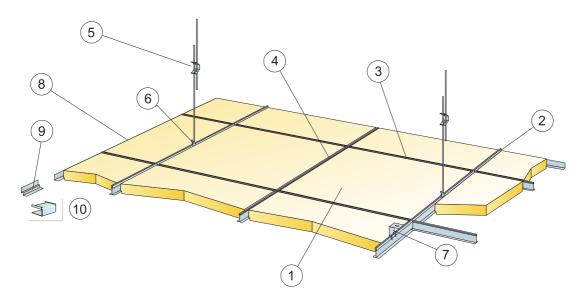
Tegular rebate with shadow-line trim.

Live load/load bearing capacity

Size, mm 600x600x40 1200x600x40 40

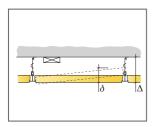
Max live Min load bearing load (N) capacity (N) 40 160

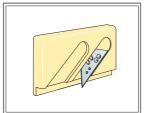
160



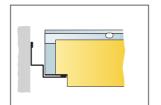
© Ecophon Group

	Size, mm
	1200×1200
Master E	0,7/m²
2 Connect T24 Main runner, installed at 1200 mm centres (max. distance from wall 600 mm, can be extended up to 1200 mm if no live load between Main runner and wall).	0,9m/m²
3 Connect T24 Cross tee, L=1200 mm, installed at 600 mm centres	0,9m/m²
4 Connect T24 Cross tee, L=600 mm	-
5 Connect Adjustable hanger, installed at 1200 mm centres (max. distance from wall 600 mm)	0,7/m²
5 Connect Hanger Clip (not to be used in swimming hall environments)	0,7/m²
7 For direct installation: Connect Direct Bracket, installed at 1200 mm centres	0,7/m²
3 Connect Angle trim, fixed at 300 mm centres	as required
7 Connect Shadow-line trim, fixed at 300 mm centres	as required
10 Connect Eplug (for Shadow-line trim)	as required
Δ Min. overall depth of system, with adjustable hanger: 110 mm, with direct bracket: 60 mm	
δ Min. demounting depth: 170 mm	-





Cutting tool E



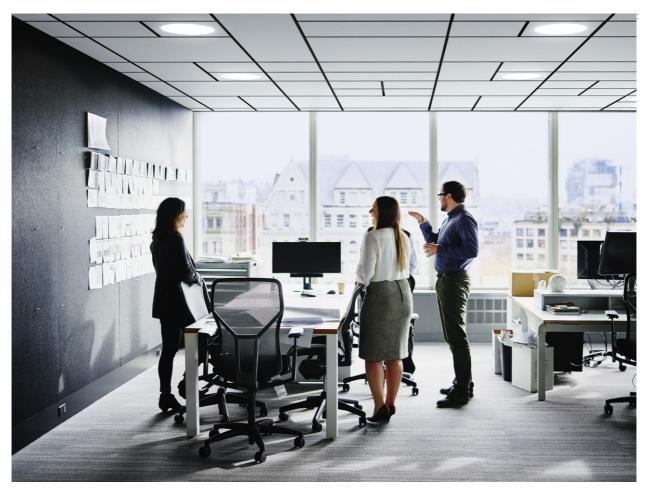
Size, mm Max live Min load bearing load (N) capacity (N) 1200x1200x40 40 160

Tegular rebate with shadow-line trim.



Ecophon Master[™] Eg

Ecophon Master™ Eg is a unique system that conceals the supporting tile edges, creating a distinctive floating appearance. Make an individual design with different panel sizes. Four supporting edges, makes it easy to install and demount. Suitable for open-plan offices or other premises where strict demands are made on good acoustics. Patent-pending system.



SYSTEM RANGE

-20 25	Size, mm	600x600	1200x600	1200x1200	XL 2400x600
	T24	•	•	•	•
	Thickness (THK)	40	40	40	40
	Inst. Diagr.	M498, M500	M498, M499, M500	M498	M500



~///~



Section of Master Eg system

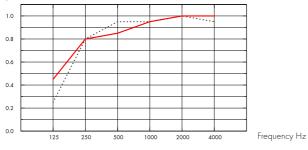


Acoustic

Sound Absorption:

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

 $lpha_{
m p}$, Practical sound absorption coefficient



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

ТНК	o.d.s. mm		α _p , Pr	actical soun	d absorption c	coefficient		α	Sound absorption class
mm	0.0.5. 11111	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	~~ _W	
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

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



Indoor Air Quality

Certificate / Label	All Products	EMISSIONS DANS L'AIR INTÉRIEUR
Eurofins Indoor Air Comfort®	IAC Gold	
French VOC	A+	
Finnish M 1	•	-



Cradle to Cradle Certified®

This product is Cradle to Cradle Certified® at Bronze level (version 4.0).



Material Health

This product has received a C2C Certified Material Health Certificate™ at the Silver level (standard version 4.0). The C2C Certified Material Health Certificate™ is a verification of the health and safety of a product's composition using the Material Health requirements of the Cradle-to-Cradle Certified Product Standard.

\mathcal{P}		kg CO2 equiv/m²	Life-cycle stages A1 to C4 from EPD, in conformity with ISO 14025 / EN 15804
\checkmark	Master Eg	6,10	- 14023 / EIN 13604



Circularity

Minimum post-consumer recycled content	61%
Recyclability	Fully recyclable



Fire safety

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



Humidity Resistance

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



Visual appearance

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



Cleanability

Daily dusting and vacuum cleaning. Weekly wet wiping.



Accessibility

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



Installation

Installed according to installation diagrams, installationguides and drawing aid. For information regarding minimum overall depthof system see quantity specification.



System weight

	kg/m²	Weight information is indicative and subject to variation.
Master Eg	3,6	
Master Eg + Connect grid system	4,6	

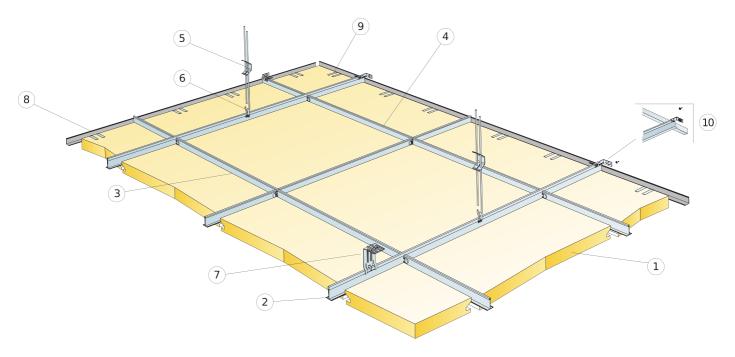


Mechanical properties

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

CE

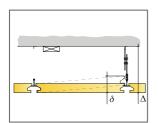
Ecophon ceiling systems are CE marked according to the European harmonized standard EN13964:2014. CE marked construction products are covered by a Declaration of Performance (DOP) which enables customers and users to easily compare performance of products available on the European market.



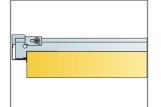
© Ecophon Group

QUANTITY SPECIFICATION (EXCL. WASTAGE)
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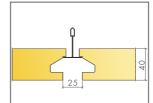
		Size, mm	Size, mm	
		600x600	1200x600	1200x1200
1	Master Eg	2,8/m²	1,4/m²	0,7/m²
2	Connect T24 Main runner, installed at 1200 mm centres (max. distance from wall 600 mm)	0,9m/m²	0,9m/m²	0,9m/m²
3	Connect T24 Cross tee, L=1200 mm	1,7m/m²	1,7m/m²	0,9m/m²
1	Connect T24 Cross tee, L=600 mm	0,9m/m²		
5	Connect Adjustable hanger, installed at 1200 mm centres (max. distance from wall 600 mm)	0,7/m²	0,7/m²	0,7/m²
ò	Connect Hanger Clip (not to be used in swimming hall environments)	0,7/m²	0,7/m²	0,7/m²
7	For direct installation: Connect Direct Bracket, installed at 1200 mm centres	0,7/m²	0,7/m²	0,7/m²
3	Connect Angle trim, fixed at 300 mm centres	as required	as required	as required
>	Connect Support clip DG25	1/300-400mm	1/300-400mm on any cut edge	
10	Connect Wall Bracket for T-profiles	1/suspended row of Main runner		
	Δ Min. overall depth of system, with adjustable hanger: 130 mm, with direct bracket: 80 mm			
	δ Min. demounting depth: 170 mm, 180mm with 1200x1200			
	For luminaire integration in panels use Connect Bridging	-		
_				



See Quantity specification



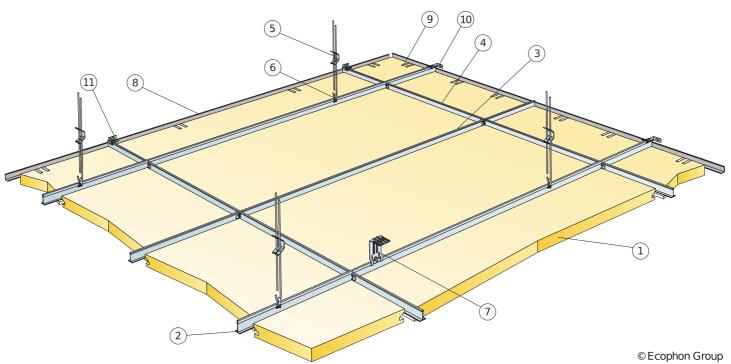
Straight cut edge with support clip. T-profiles resting on Angle trim.



Lay in panel with edge design for floating ceiling appearance

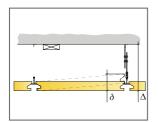
Size, mm	Max live load (N)	Min load bearing capacity (N)
600x600x40	40	160
1200x600x40	40	160
1200x1200x40	40	160

INSTALLATION DIAGRAM (M499) FOR ECOPHON MASTER EG

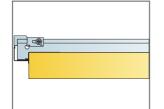


QUANTITY SPECIFICATION (EXCL. WASTAGE)

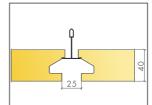
		Size, mm
		1200×600
1	Master Eg	1,4/m²
	Connect T24 Main runner, installed at 1200 mm centres (max. distance from wall 600 mm)	0,9m/m²
	Connect T24 Cross tee, L=1200 mm	0,85m/m²
	Connect T24 Cross tee, L=1200 mm	0,85m/m²
	Connect Adjustable hanger, installed at 1200 mm centres (max. distance from wall 600 mm)	0,7/m²
	Connect Hanger Clip (not to be used in swimming hall environments)	0,7/m²
	For direct installation: Connect Direct Bracket, installed at 1200 mm centres	0,7/m²
	Connect Angle trim, fixed at 300 mm centres	as required
	Connect Support clip DG25	1/300-400mm on any cut edge
0	Connect Wall Bracket for Main runners	1/suspended row of Main runner
1	Connect Wall Bracket for Cross tees	1/row of cross tee
	Δ Min. overall depth of system, with adjustable hanger: 130 mm, with direct bracket: 80 mm	
	δ Min. demounting depth: 170 mm	
	For luminaire integration in panels use Connect Bridging	



See Quantity specification

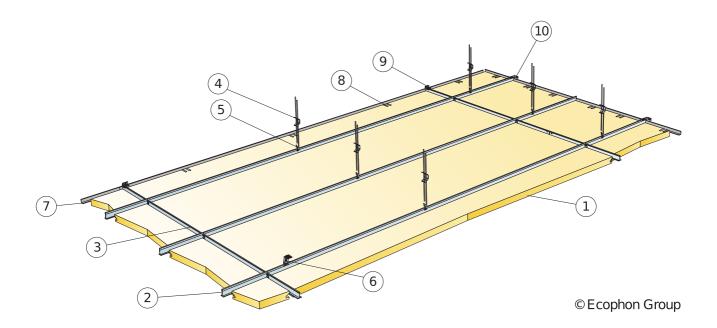


Straight cut edge with support clip. T-profiles resting on Angle trim.



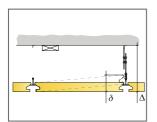
Lay in panel with edge design for floating ceiling appearance

Size, mm Max live Min load bearing load (N) capacity (N) 1200x600x40 40 160

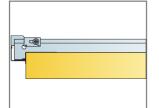


QUANTITY SPECIFICATION (EXCL. WASTAGE)

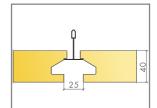
		Size, mm		
		600×600	1200×600	2400×600
1	Master Eg	2,8/m²	1,4/m ²	0,7/m²
2	Connect T24 Main runner, installed at 600 mm centres (max. distance from wall 600 mm)	1,7m/m²	1,7m/m²	1,7m/m²
3	Connect T24 Cross tee, L=600 mm	1,7m/m²	0,9m/m²	0,45m/m²
4	Connect Adjustable hanger, installed at 1500 mm centres (max. distance from wall 600 mm)	1,1/m²	1,1/m ²	1,1/m ²
5	Connect Hanger Clip (not to be used in swimming hall environments)	1,1/m²	1,1/m²	
6	For direct installation: Connect Direct Bracket, installed at 1,500 mm centres	1,1/m²	1,1/m²	1,1/m ²
7	Connect Angle trim, fixed at 300 mm centres	as required	as required	as required
8	Connect Support clip DG25	2/500-600mm on any cut edge	2/500-600mm on any cut edge	1/500-600mm on any cut edge
9	Connect Wall Bracket for Cross tees	0,25/row of cross tee	0,5/row of cross tee	1/row of cross tee
10	Connect Wall Bracket for Main runners	1/second row of Main runner		
	Δ Min. overall depth of system, with adjustable hanger: 130 mm, with direct bracket: 80 mm			
	δ Min. demounting depth: 170 mm			
	For luminaire integration in panels use Connect Bridging			



See Quantity specification



Straight cut edge with support clip. T-profiles resting on Angle trim.



Lay in panel with edge design for floating ceiling appearance

Size, mm	Max live load (N)	Min load bearing capacity (N)
600x600x40	40	160
1200x600x40	40	160
2400x600x40	40	160



Ecophon Master[™] F

Ecophon Master™ F is installed directly to an existing plaster ceiling, boarding, battens or concrete to create a ceiling with a smooth appearance. Suitable for schools, open plan offices or other premises where strict demands are made on good acoustics.



SYSTEM RANGE

4 4	Size, mm	600x600	1200x600	
4	Direct	•	•	
	Thickness (THK)	40	40	
	Inst. Diagr.	M52	M52	









Master F tile

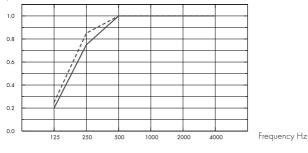
Acoustic



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.

 $lpha_{
m p\prime}$ Practical sound absorption coefficient



and grove

- 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

ТНК	o.d.s. mm	$lpha_{ m p}$, Practical sound absorption coefficient						α"	Sound absorption class
mm		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	. u. _w	
40	40	0.20	0.75	1.00	1.00	1.00	1.00	1.00	A
40	60	0.25	0.85	1.00	1.00	1.00	1.00	1.00	A

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	All Products	EMISSIONS DANS L'AIR INTÉRIEUR
Eurofins Indoor Air Comfort®	IAC Gold	
French VOC	A+	
Finnish M1	•	



Cradle to Cradle Certified®

This product is Cradle to Cradle Certified® at Bronze level (version 4.0).



Material Health

This product has received a C2C Certified Material Health Certificate™ at the Silver level (standard version 4.0). The C2C Certified Material Health Certificate™ is a verification of the health and safety of a product's composition using the Material Health requirements of the Cradle-to-Cradle Certified Product Standard.

Ŧ,		kg CO2 equiv/m²	Life-cycle stages A1 to C4 from EPD, in conformity with IS 14025 / EN 15804		
\checkmark	Master F	7,30	- 14023 / EIN 13604		



Circularity

Minimum post-consumer recycled content	63%
Recyclability	Fully recyclable



Fire safety

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



Humidity Resistance

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



Visual appearance

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



Cleanability

Daily dusting and vacuum cleaning. Weekly wet wiping.



Accessibility

The tiles are not demountable.



Installation

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



System weight

Ń		kg/m²	Weight information is indicative and subject to variation.
	Master F	4,3	-



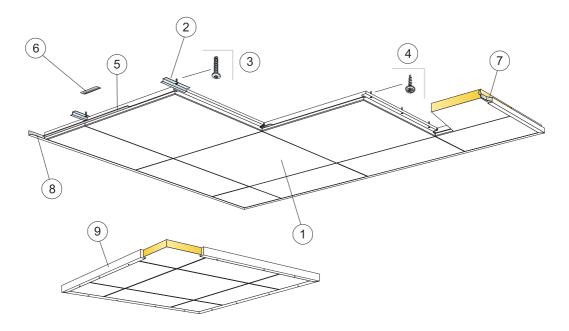
Mechanical properties

Additional live load has to be fixed to the soffit.

6

CE

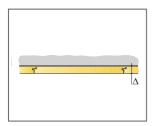
Ecophon ceiling systems are CE marked according to the European harmonized standard EN13964:2014. CE marked construction products are covered by a Declaration of Performance (DOP) which enables customers and users to easily compare performance of products available on the European market.

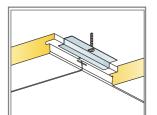


QUANTITY SPECIFICATION (EXCL. WASTAGE)

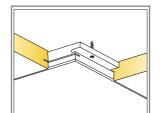
© Ecophon Group

	Size, mm	
	600×600	1200x600
1 Master F	2,8/m²	1,4/m²
2 Connect Direct fixing plate F 0152, installed at 600 mm centres (for use in concrete)	2,8/m²	2,8/m²
3 Connect Anchor screw, installed at 600 mm centres (for use in concrete)	2,8/m²	2,8/m²
Connect Installation screw MVL [for use in plasterboard or timber]	8,3/m²	7/m²
Connect Spline F, L=600 mm. Must be used in Sweden, Denmark, Norway and Finland at fireclass 'Tändskyddande beklädnad'	2,8/m²	1,4/m²
o Connect Spline, L=150 mm	2,8/m²	1,4/m²
Connect Wall spring spacer	1/panel in the last row	2/panel in the last row
3 Connect Angle trim, fixed at 300 mm centres	as required	as required
When installing floating ceilings: Connect Wood trim, L=3000, fixed at 500 mm centres	as required	as required
Δ Min. overall depth of system: 40 mm		-
δ Min. demounting depth: The system is not demountable	-	





Installation in concrete



Installation in plasterboard or timber





Ecophon Master[™] SQ

Ecophon Master[™] SQ has bonded tiles directly to the soffit surface. Installed with a gap between each tile the result is a ceiling with a smooth appearance. Suitable for schools, open plan offices or other premises where strict demands are made on good acoustics.



SYSTEM RANGE

64	Size, mm	600x600	1200x600	
8	Direct	•	•	
	Thickness (THK)	40	40	
	Inst. Diagr.	M106	M106	







Master SQ tile

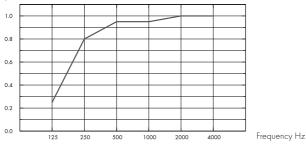
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Acoustic

Sound Absorption:

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

 $lpha_{
m p}$, Practical sound absorption coefficient



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

ТНК	o.d.s. mm	$lpha_{ m p'}$ Practical sound absorption coefficient						α"	Sound absorption class
mm		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz		
40	43	0.25	0.80	0.95	0.95	1.00	1.00	1.00	A



Indoor Air Quality

Certificate / Label	All Products	EMISSIONS DANS L'AR INTÉRIEUR A L
Eurofins Indoor Air Comfort®	IAC Gold	
French VOC	A+	-
Finnish M1	•	-



Cradle to Cradle Certified®

This product is Cradle to Cradle Certified® at Bronze level (version 4.0).



Material Health

This product has received a C2C Certified Material Health Certificate™ at the Silver level (standard version 4.0). The C2C Certified Material Health Certificate™ is a verification of the health and safety of a product's composition using the Material Health requirements of the Cradle-to-Cradle Certified Product Standard.



Environmental Footprint

 kg CO2 equiv/m²
 Life-cycle stages A1 to C4 from EPD, in conformity with ISO

 Master SQ
 7,20



Circularity

)	Minimum post-consumer recycled content	62%
	Recyclability	Fully recyclable

Fire safety

	Country	Fire standard	Class	The glass wool core of the tiles is tested and classified as
\smile	Europe	EN 13501-1	A2-s1,d0	non-combustible according to EN ISO 1182.



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

	kg/m²		Weight information is indicative and subject to variation.		
1	Master SQ	3,6			



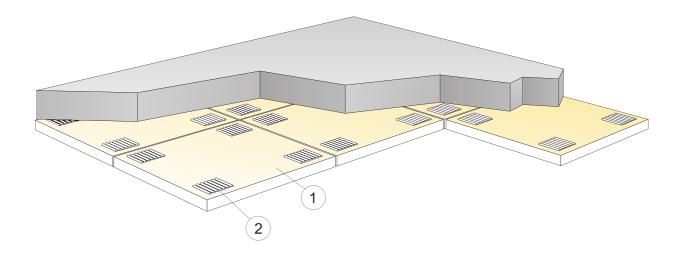
Mechanical properties

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.

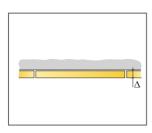
INSTALLATION DIAGRAM (M106) FOR ECOPHON MASTER SQ, USING CONNECT ABSORBER GLUE

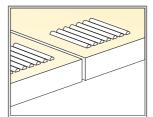


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QUANTITY SPECIFICATION (EXCL. WASTAGE)

		Size, mm	
		600x600	1200x600
	Master SQ	2,8/m²	1,4/m²
2	Connect Absorber glue (0,25 l/m² - 0,4 l/m² depending on installation conditions)	as required	as required
	Use Connect Notched spatula to apply the glue.	-	-
	Δ Min. overall depth of system: 43 mm	-	-
	δ Min. demounting depth: The system is not demountable	-	-
	Cut visible edges should be painted	-	-
	* Panel Module size 600x600 (592x592), 1200x600 (1192x592)	-	





Application of glue

Size, mm Max live Min load bearing load (N) copacity (N) <u>600x600x40</u> 1200x600x40



Ecophon Master[™] Rigid A

Ecophon Master™ Rigid A has an exposed grid system. Each tile is secured in the grid by clips and is fully demountable. The surface is a reinforced sandwich construction. Used together with Ecophon Extra Bass, optimal acoustics are achieved.





28	Size, mm	600x600	1200x600	XL 1600x600	XL 1 800x600	XL 2000x600	XL 2400x600
	Extra Bass	•	•				
	T24	•	•	•	•	•	•
	Thickness (THK)	20	20	20	20	20	20
	Inst. Diagr.	M316EB	M316EB	M333	M333	M333	M333





Section of Master Rigid A system with Connect T24



Acoustic

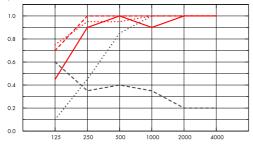
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Sound Absorption:

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

 $lpha_{
m p\prime}$ Practical sound absorption coefficient



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

 $F_{requency Hz}$ o.d.s = overall depth of system

	тнк	o.d.s. mm		$lpha_{ m p'}$ Pra	ctical soun	d absorption	i coefficient		. α.,,	Sound absorption class
	mm	0.0.5. 11111	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	u.,	Sound 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	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
70	200	1.00	1.00
20	200	0.35	0.33



Indoor Air Quality

Certificate / Label	All Products
Eurofins Indoor Air Comfort®	IAC Gold
French VOC	A+
Finnish M 1	•





Environmental Footprint

6		kg CO2 equiv/m²		e-cycle stages A1 to C4 from EPD, in conformity with ISO
	Master Rigid A	2,95	- 14	1025 / EN 15804

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Circularity

)	Minimum post-consumer recycled content	46%
	Recyclability	Fully recyclable

Fire safety

	Country	Fire standard	Class	The glass wool core of the tiles is tested and classified as non-combustible according to EN ISO 1182.
\smile	Europe	EN 13501-1	A2-s1,d0	non-combusible according to ETA ISO TT 82.



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, installationguides and drawing aid. For information regarding minimum overall depthof system see quantity specification.



System weight

		kg/m²	Weight information is indicative and subject to variation.
	Master Rigid A	1,6	
-	Master Rigid A + Connect grid system	2,6	

kg

Mechanical properties

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

ЗA



Impact Resistance

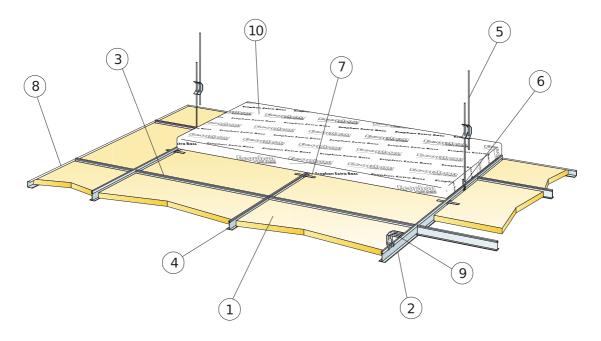
M-sketch M316

CE

Tested and classified according to EN 13964 annex D.

C F

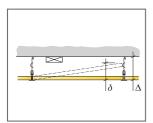
Ecophon ceiling systems are CE marked according to the European harmonized standard EN13964:2014. CE marked construction products are covered by a Declaration of Performance (DOP) which enables customers and users to easily compare performance of products available on the European market.



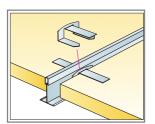
${}^{\textcircled{C}}\mathsf{Ecophon}\,\mathsf{Group}$

QUANTITY	Specification	(EXCL. WASTAGE)	

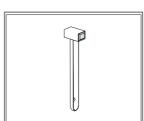
	Size, mm	
	600×600	1200×600
1 Master Rigid A	2,8/m²	1,4/m²
2 Connect T24 Main runner, installed at 1200 mm centres (max. distance from wall 600 mm, can be extended up to 1200 mm if no live load between Main runner and wall).	0,9m/m²	0,9m/m²
3 Connect T24 Cross tee, L=1200 mm, installed at 600 mm centres	1,7m/m²	1,7m/m²
4 Connect T24 Cross tee, L=600 mm	0,9m/m²	-
5 Connect Adjustable hanger, installed at 1200 mm centres (max. distance from wall 600 mm)	0,7/m²	0,7/m²
6 Connect Hanger Clip (not to be used in swimming hall environments)	0,7/m²	0,7/m²
7 Connect Hold down clip A	2pcs/panel	2pcs/panel
8 Connect Channel trim, fixed at c300 mm (1200x1200, c200 mm)	as required	as required
9 For direct installation: Connect Direct bracket, installed at 1200 mm centres	0,7/m²	0,7/m²
10 Extra Bass (1200x600x50 mm)	0,7/m²	0,7/m²
11 Connect Demounting tool	-	
Δ Min. overall depth of system: 100 mm	-	
δ Min. demounting depth: 120 mm (tiles without Extra Bass above)		
For luminaire integration in panels use Connect Bridging		



See Quantity specification



Connect Hold down clip A (patent pending)

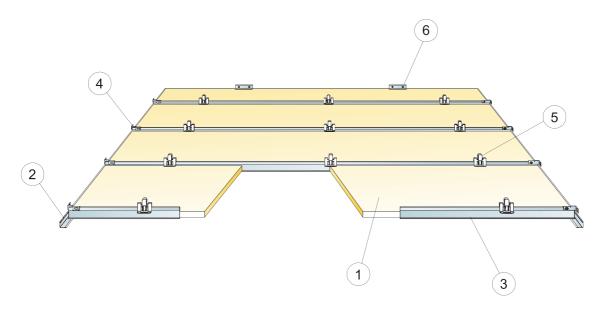


 Size, mm
 Max live load (N)
 Min load bearing capacity (N)

 600x600x20
 50
 160

 1200x600x20
 50
 160

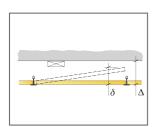
Connect Demounting tool



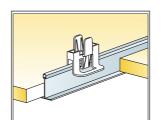
© Ecophon Group

QUANTITY SPECIFICATION (EXCL. WASTAGE)

		Size, mm			
		1600×600	1800×600	2000×600	2400×600
1	Master Rigid A XL	1,05/m²	0,95/m²	0,85/m²	0,7/m²
2	Connect Angle trim, fixed at 200 mm centres	as required	as required	as required	as required
3	Connect T24 Corridor profile, installed at 600 mm centres	1,05/m²	0,95/m²	0,85/m²	0,7/m²
4	Connect Wall bracket for T-profiles	2/row of corridor	profile		
5	Connect Hygiene clip 20	3,15/m² (3/tile)	2,8/m² (3/tile)	2,5/m² (3/tile)	2,1/m² (3/tile)
6	Connect Angle trim	as required	as required	as required	as required
	Δ Min. overall depth of system: 150 mm				-
	δ Min. demounting depth: 150 mm	-			



See Quantity specification



Clip for keeping tiles in place

Size, mm	Max live load (N)	Min load bearing capacity (N)
1600x600x20	40	÷
1800x600x20	20	-
2000x600x20	10	-
2400x600x20	0	-



Ecophon Master[™] Rigid Dp

Ecophon Master™ Rigid Dp is a patented, semiconcealed grid system for use when a lockable, impact resistant system is required. Features a reinforced sandwich construction. For classrooms or other spaces that require good acoustics and speech intelligibility, and can also be demounted.



SYSTEM RANGE

Size, mm	600x600	1200x600
Extra Bass	•	•
T24	•	•
Thickness (THK)	20	20
Inst. Diagr.	M318EB, M319	M318EB, M319

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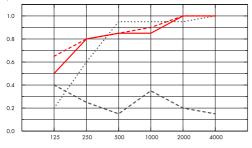


Acoustic

Sound Absorption:

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

 $lpha_{
m p\prime}$ Practical sound absorption coefficient



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

	тнк	o.d.s. mm		$lpha_{p'}$ Pra	ctical sound	d absorption	coefficient		α	Sound absorption class
	mm	0.0.3. 11111	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

Frequency Hz



Indoor Air Quality

Certificate / Label	All Products	ÉMISSIONS DANS L'AIR INTÉRIEUR
Eurofins Indoor Air Comfort®	IAC Gold	
French VOC	A+	
Finnish M1	•	-



Environmental Footprint

5		kg CO2 equiv/m²	Life-cycle stages A1 to C4 from EPD, in conformity with ISO
	Master Rigid Dp	4,95	14025 / EN 15804
	Extra Bass	1,62	-



Circularity

Minimum post-consumer recycled content	55%
Recyclability	Fully recyclable



Fire safety

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



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, installationguides and drawing aid. For information regarding minimum overall depthof system see quantity specification.



System weight

	kg/m²
Master Rigid Dp	2,5
Master Rigid Dp + Connect grid system	3,5

kg/m² Weight information is indicative and subject to variation.



Mechanical properties

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

ЗA



Impact Resistance

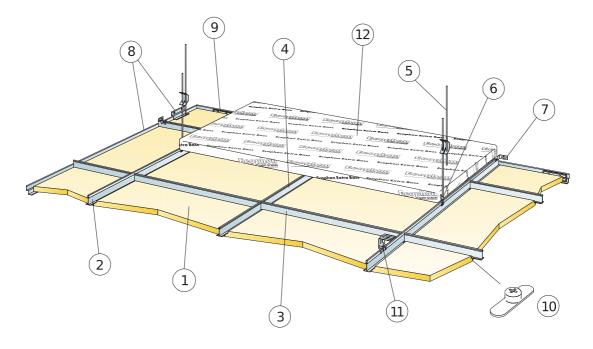
M-sketch M318

CE

Tested and classified according to EN 13964 annex D.

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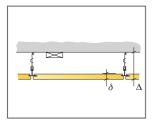
Ecophon ceiling systems are CE marked according to the European harmonized standard EN13964:2014. CE marked construction products are covered by a Declaration of Performance (DOP) which enables customers and users to easily compare performance of products available on the European market.

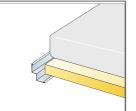


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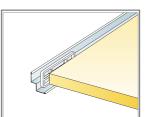
QUANTITY SPECIFICATION (EXCL. WASTAGE)

	Size, mm	
	600×600	1200×600
1 Master Rigid Dp	2,8/m²	1,4/m ²
2 Connect T24 Main runner, installed at 1200 mm centres (max. distance from wall 600 mm, can be extended up to 1200 mm if no live load between Main runner and wall).	0,9m/m²	0,9m/m²
3 Connect T24 Cross tee, L=1200 mm, installed at 600 mm centres	1,7m/m²	1,7m/m²
4 Connect T24 Cross tee, L=600 mm	0,9m/m²	-
5 Connect Adjustable hanger, installed at 1200 mm centres (max. distance from wall 600 mm)	0,7/m²	0,7/m²
6 Connect Hanger Clip (not to be used in swimming hall environments)	0,7/m²	0,7/m²
7 Connect Wall bracket for T-profiles(For every suspended row of main runner and every second row of cross tee)	as required	as required
8 Connect Shadow-line trim, fixed at 300 mm centres	as required	as required
9 Connect Wall spacer 5	1/cut tile with one bearing edge	2/cut tile with one bearing edge
10 Connect Panel lock Dp	1/panel	2/panel
11 For direct installation: Connect Direct bracket, installed at 1200 mm centres	0,7/m²	0,7/m²
12 Extra Bass (1200x600x50 mm)	0,7/m²	0,7/m²
Δ Min. overall depth of system: 115 mm		
δ Min. demounting depth: 20 mm (tiles without Extra Bass above)		
For luminaire integration in panels use Connect Bridging	-	



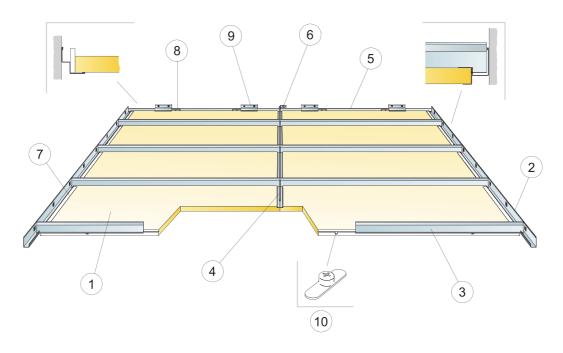


Wall connection with Connect Shadow-line trim



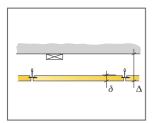
Connect Wall spacer 5 for locking of the perimeter tile

600x600x20 1200x600x20	50	160
	50	160

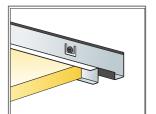


QUANTITY SPECIFICATION (EXCL. WASTAGE)

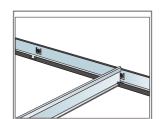
		Size, mm	
		600x600	1200×600
1	Master Rigid Dp	2,8/m²	1,4/m²
2	Connect Modular Wall trim	as required	as required
3	Connect T24 Corridor profile	as required	as required
4	Connect T24 Cross tee, L=600 mm	0,9m/m²	-
5	Connect Shadow-line trim, fixed at 300 mm centres	as required	as required
5	Connect Wall bracket for T-profiles	2 /row of cross tee	
7	Connect Cover trim Dp/Dg	as required	as required
3	Connect Wall spacer 5	1/cut tile with one bearing edge	2/cut tile with one bearing edge
>	Connect Shadow-line trim	as required	as required
10	Connect Panel lock Dp	1/panel	2/panel
	Δ Min. overall depth of system: 115 mm	-	
	δ Min. demounting depth: 20 mm		
	For luminaire integration in panels use Connect Bridging		



See Quantity specification



Tile and Connect Cover trim Dp/Dg



Corridor profile positioned by Modular wall trim



Live load/load bearing capacity

© Ecophon Group



Ecophon Master[™] Rigid E

Ecophon Master[™] Rigid E has a recessed visible grid and tegular edge to create a shadow effect ceiling, accentuating each tile and partially concealing the grid system. Secured by clips, each tile is fully demountable. Together with Ecophon Extra Bass optimal acoustics are achieved.



SYSTEM RANGE

]8	Size, mm	600x600	1200x600	1200x1200		
	Extra Bass	•	•	•		
	Т24	•	•	•		
	Thickness (THK)	20	20	20		
	Inst. Diagr.	M317EB	M317EB	M317EB		

© Saint-Gobain Ecophon AB





Section of Master Rigid E system with Connect T24



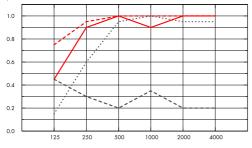
Acoustic

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Sound Absorption:

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

 $lpha_{
m p}$, Practical sound absorption coefficient



- ···· Master Rigid E 20 mm, 60 mm o.d.s.
- Master Rigid E 20 mm, 200 mm o.d.s.
- --- Master Rigid E 20 mm + Extra Bass 50 mm, 200 mm o.d.s.
- --- Master Rigid E gamma 20 mm, 200 mm o.d.s.

o.d.s = overall depth of system

	тнк	o.d.s. mm		$lpha_{p'}$ Pra	ctical sound	d absorption	coefficient		.α.,	Sound absorption class
	mm	0.0.3. 11111	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

Frequency Hz



Indoor Air Quality

Certificate / Label	All Products	EMISSIONS DANS L'AIR INTÉRIEUR
Eurofins Indoor Air Comfort®	IAC Gold	
French VOC	A+	
Finnish M1	•	-



Environmental Footprint

P	kg CO2 equiv/m²		Life-cycle stages A1 to C4 from EPD, in conformity with ISO	
	Master Rigid E	3,27	14025 / EN 15804	



Circularity

Minimum post-consumer recycled content	45%
Recyclability	Fully recyclable



Fire safety

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



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, installationguides and drawing aid. For information regarding minimum overall depthof system see quantity specification.



System weight

	kg∕m²
Master Rigid E	1,6
Master Rigid E + Connect grid system	2,6

kg/m² Weight information is indicative and subject to variation.



Mechanical properties

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

ЗA



Impact Resistance

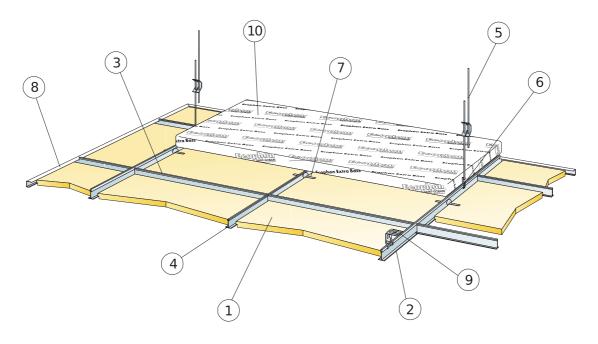
M-sketch M317

CE

Tested and classified according to EN 13964 annex D.

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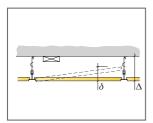
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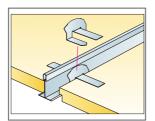
© Ecophon Group

QUANTITY SPECIFICATION (EXCL. WASTAGE)

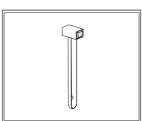
	Size, mm	Size, mm		
	600×600	1200×600	1200×1200	
1 Master Rigid E	2,8/m²	1,4/m²	0,7/m²	
2 Connect T24 Main runner, installed at 1200 mm centres (max. distance from wall 600 mm, can be extended up to 1200 mm if t between Main runner and wall).	no live load 0,9m/m²	0,9m/m²	0,9m/m²	
3 Connect T24 Cross tee, L=1200 mm, installed at 600 mm centres	1,7m/m²	1,7m/m²	0,9m/m²	
4 Connect T24 Cross tee, L=600 mm	0,9m/m²			
5 Connect Adjustable hanger, installed at 1200 mm centres (max. distance from wall 600 mm)	0,7/m²	0,7/m²	0,7/m²	
6 Connect Hanger Clip (not to be used in swimming hall environments)	0,7/m²	0,7/m²	0,7/m²	
7 Connect Hold down clip E	2pcs/panel	2pcs/panel	2pcs/panel	
3 Connect Channel trim, fixed at c300 mm (1200x1200, c200 mm)	as required	as required	as required	
9 For direct installation: Connect Direct bracket, installed at 1200 mm centres	0,7/m²	0,7/m²	0,7/m²	
10 Extra Bass (1200x600x50 mm)	0,7/m²	0,7/m²	0,7/m²	
11 Connect Demounting tool				
Δ Min. overall depth of system: 110 mm				
δ Min. demounting depth: 120 mm (tiles without Extra Bass above)				
For luminaire integration in panels use Connect Bridging	-		-	



See Quantity specification



Connect Hold down clip E (patent pending)



 Size, mm
 Max live load (N)
 Min load bearing capacity (N)

 600x600x20
 50
 160

 1200x600x20
 50
 160

 1200x1200x20
 50
 160

Connect Demounting tool