

ECOPHON

FOCUSTM

VEELZIJDIGHEID BINNEN UW DESIGN



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04

A SOUND EFFECT

ON PEOPLE

05

Saint-Gobain Ecophon draagt bij aan een goed binnenklimaat voor werken, genezen en leren. We doen dit door akoestische producten en systemen te ontwikkelen, produceren en leveren die zijn ontworpen rond de natuurlijke evolutie van het menselijk gehoor – door de geluidservaring van buiten naar binnen na te bootsen.

A Sound Effect on People, op alle mogelijke manieren, is waar we trots op zijn. Die belofte maakt ieder van ons gepassioneerd over het belang van ruimteakoestiek en de invloed daarvan op het welzijn van mensen – ongeacht de ruimte, activiteit of behoefte.

GOEDE AKOESTIEK IS ESSENTIEEL

Het belang van goede akoestiek wordt vaak onderschat. Geluid heeft invloed op ons dagelijks leven en de wetenschappelijke onderbouwing voor het verbeteren van onze geluidsomgeving binnenshuis is goed gedocumenteerd. En wat is precies een ideale geluidsomgeving binnenshuis?

Een omgeving die gebaseerd is op hoe we geluid buiten ervaren. Het menselijk gehoor is van nature aangepast aan een buitenomgeving waar geen geluidsreflecties van plafonds en wanden zijn. Daarom draait het bij Ecophon vooral om het nabootsen van de akoestische kwaliteiten die in de natuur voorkomen voor binnenruimtes. We willen binnenruimtes optimaliseren voor onze natuurlijke manier van horen, zodat spraak en geluid gemakkelijk te horen en te verstaan zijn, wanneer nodig, wat uiteindelijk de prestaties en het welzijn verbetert.

Meestal begint dat bij het plafond. Een akoestisch plafond van wand tot wand is de gemakkelijkste manier om een groot geluidsabsorberend oppervlak in een ruimte te creëren en is meestal de beste manier om ongewenst lawaai te verminderen, nagalmtijden te verkorten en de spraakverstaanbaarheid en het algehele luistercomfort te verbeteren.





OP WEG NAAR

NET-ZERO AKOESTIEK

Duurzaamheid is geen modewoord, maar een gezamenlijke inspanning om mens en planeet te beschermen. Dat vraagt om eerlijkheid, transparantie en échte betrokkenheid. Daarom blijft Ecophon zich inzetten voor betere materialen, duidelijke principes en open communicatie rond het thema duurzaamheid.

We stimuleren actief een sectorbrede verschuiving naar gestandaardiseerde en toegankelijke milieuproductverklaringen (EPD's) per individueel product – in plaats van generieke verklaringen voor hele productfamilies. Deze verklaringen geven inzicht in de volledige levenscyclus: van grondstofwinning tot end-of-life, niet alleen de meest gunstige fases.

We nemen afstand van zelfbedachte keurmerken of duurzaamheidsclaims zonder onafhankelijke toetsing. Onze doelstellingen voor net-zero uitstoot zijn gevalideerd door het gerenommeerde Science-Based Targets-initiatief.

Een écht duurzame toekomst begint bij een eerlijke benadering, met hoge ambities en oprechte intenties. Zo bouwen we samen verder aan een betere wereld.

ECOPHON FOCUS™

VEELZIJDIGHEID BINNEN UW DESIGN

Ecophon Focus™ is onze meest uitgebreide productfamilie en biedt oplossingen voor een breed scala aan mogelijkheden dankzij verschillende kantafwerkingen en installatieopties.

- Absorptieklasse A
- 11 verschillende kantafwerkingen naast 6 unieke oplossingen
- Oppervlak van hoge kwaliteit en een matte uitstraling

Focus is een uitstekende keuze voor kantoorruimtes, gangen, recepties, entreehallen, wachtkamers, teamwerkplekken en andere openbare ruimtes waar uitstraling en geluidskwaliteit even belangrijk zijn.

De Focus-familie omvat panelen die direct aan het plafond kunnen worden bevestigd. Dit biedt u mogelijkheden voor ruimtes die akoestisch moeilijk of onmogelijk te verbeteren lijken, zoals trappenhuizen, kelders en ruimtes met een laag plafond.

Minimaal

51%

POST-CONSUMER
GERECYCLEDE CONTENT

ECOPHON FOCUS™ PRODUCTAANBOD

Focus is een modulair systeemplafond met uitstekende akoestische eigenschappen, een mooi design en de flexibiliteit om aan elke behoefte te voldoen, Dit maakt van de Focus-familie de perfecte toolbox voor uw project.

De Focus-familie omvat zes unieke, complementaire oplossingen voor niveauverschillen, wandafwerkingen en vrijhangende plafonds. Ze zijn ontworpen om het plafond een geïntegreerde uitstraling te geven die de algehele uitstraling van de ruimte versterkt.

Focus Levels biedt u nog meer ontwerp mogelijkheden. Met Levels combineert u verschillende paneeldiktes en -afmetingen om een plafond of wand een unieke uitstraling te geven.

FOCUS A

- 600x600x20
- 1200x600x20
- 1200x1200x20
- 1600x600x20
- 1800x600x20
- 2000x600x20
- 2400x600x20



FOCUS Ds

- 600x600x20
- 1200x600x20
- 1200x1200x20
- 1600x600x20
- 1800x600x20
- 2000x600x20
- 2400x600x20



FOCUS Dt

- 600x600x20



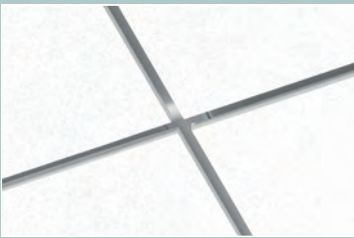
FOCUS B

- 600x600x20
- 1200x600x20



FOCUS Dg

- 600x600x20
- 1200x600x20
- 1200x1200x25
- 1600x600x20
- 1800x600x20
- 2000x600x20
- 2400x600x20



Lage

CO₂

DOOR GEBRUIK VAN GERECYCLED
MATERIAAL EN HERNIEUWBARE
ENERGIE IN DE PRODUCTIE

FOCUS D/A

- 1720x600x20
- 2000x600x20
- 2400x600x20



FOCUS EZ

- 600x600x40



FOCUS LP

- 600x150x20
- 600x300x20
- 600x600x20
- 1200x150x20
- 1200x300x20
- 1200x600x20
- 1800x600x20



FOCUS LEVELS

- 600x600x20
- 1200x600x20
- 1200x300x20
- 600x600x30
- 1200x600x30
- 1200x300x30
- 600x600x40
- 1200x600x40
- 1200x300x40



FOCUS E

- 600x600x20
- 1200x600x20
- 1200x1200x20
- 1600x600x20
- 1800x600x20
- 2000x600x20
- 2400x600x20



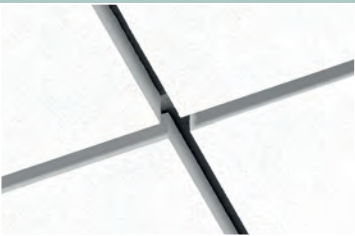
FOCUS F

- 600x600x20
- 1200x600x20



FOCUS SQ

- 600x600x20
- 1200x600x20



FOCUS FLEXIFORM A

- 1200x600x30
- 1600x600x30
- 2000x600x30
- 2400x600x30



FOCUS FIXIFORM E

1200x600x20



FOCUS FRIEZE

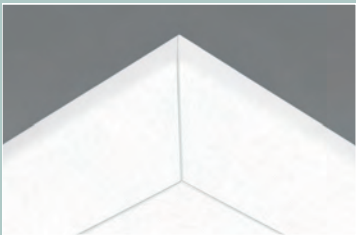
2400x600x20



FOCUS WING

600x200x50

1200x200x50



ECOPHON LIGHTING DOT

voor Focus Dg, Ds, E, Ez en
Master Eg



FOCUS FIXIFORM DS

1200x600x20

1500x600x20

1900x600x20

2300x600x20



FOCUS EDGE 500

600x600x20

1200x600x20

1200x1200x20

1200x1200x25



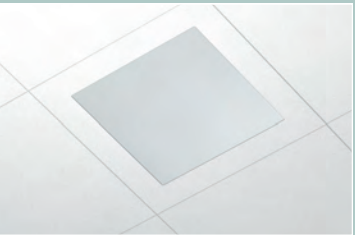
ECOPHON LIGHTING SQUARE 43

Edge Ds, Dg, E:

600x600x20

Edge Ez:

600x600x40



ECOPHON LIGHTING LINE

voor Focus Dg, Ds, E, Lp & Solo



**FOCUS A**

Zichtbaar ophangstelsel en eenvoudig te demonteren panelen. Verkrijgbaar in vele formaten.

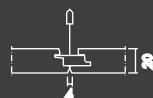
**FOCUS B**

Voor rechtstreekse bevestiging met lijm, ideaal voor installaties waarbij een minimale systeemdiepte nodig is.

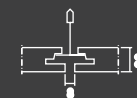


**FOCUS Ds**

Afgeschuinde randen die een discrete groef tussen de panelen creëren. Verdekt ophangstelsel.

**FOCUS Dg**

Unique edge design with concealed support edges and a floating appearance.

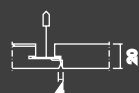
**FOCUS D/A**

Voor gangen en bandroosteroplossingen. Lange panelen met een verdekt grid.



**FOCUS Dt**

Aluminium profiel tussen elk paneel, waardoor een opvallend design ontstaat.

**FOCUS Dt**

**FOCUS E**

Semi-verdekt ophangstelsysteem voor een schaduw effect aan de rand. Eenvoudig te demonteren tegels.

**FOCUS Ez**

Uniek design door het gekantelde systeem op verschillende niveaus.





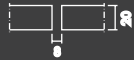
FOCUS F

Voor rechtstreekse installatie met schroeven, ideaal voor installaties waarbij een minimale systeemdiepte nodig is.



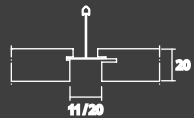
FOCUS SQ

Voor rechtstreekse bevestiging met lijm. Geïnstalleerd met een tussenruimte tussen elk paneel.



FOCUS Lp

Een gepatenteerd systeem om lange rijen in het plafond te creëren, die een specifieke richting in de ruimte benadrukken.





FOCUS LEVELS

Verschillende paneeldiktes binnen het systeem voor het creëren van unieke patronen op muren en plafonds.



FOCUS FLEXIFORM A

Flexibele panelen die concaaf of convex gevormd kunnen worden (hol of bol)



FOCUS EDGE 500

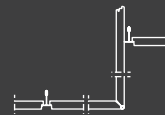
Randprofiel voor eilandinstallaties. Profiel van geëxtrudeerd aluminium en hoeken van gegoten zink.





FOCUS FIXIFORM E

Panelen die buigbaar zijn voor vloeiende overgangen bij niveauverschillen in het plafond.

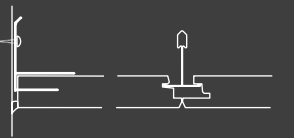


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FOCUS FRIEZE

Panelen voor toepassingen waar een gladde, doorlopende overgang tussen plafond en wand vereist is.

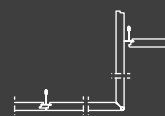


29



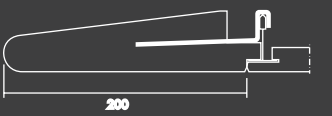
FOCUS FIXIFORM Ds

Panelen die buigbaar zijn voor vloeiende overgangen bij niveauverschillen in het plafond.



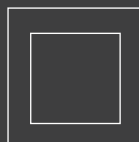
FOCUS WING

Systeem van wing-vormige absorbers voor vrijhangende verlaagde plafonds

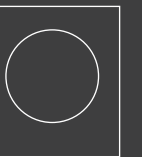


**SQUARE 43**

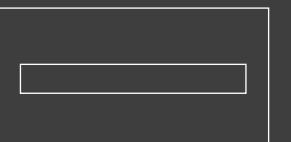
Hoog lichtcomfort met lage UGR-waarde

**DOT**

Hoog lichtcomfort met lage UGR-waarde

**LINE**

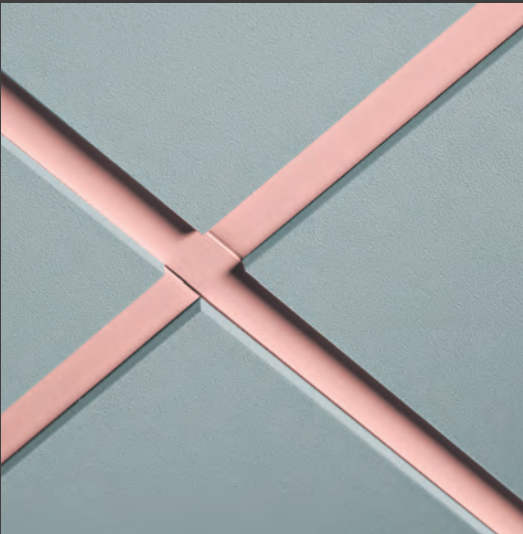
Armatuur met een hoog lichtcomfort en geeft het plafond een duidelijke richting.



GRID KLEUREN - MAAK JE EIGEN DESIGN

Een akoestisch plafond is vaak het grootste aaneengesloten oppervlak in een ruimte. Het beïnvloedt niet alleen de uitstraling van het interieur, maar ook het welzijn van de eindgebruiker.

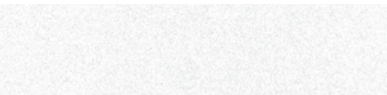
- Connect grids zijn verkrijgbaar in alle Akutex FT-kleurcodes.
- Stem de kleuren van de panelen af op het grid, of combineer ze voor een dynamischer en speelser ontwerp.



KLEUREN EN OPPERVLAKE

AKUTEX™ FT

Het Akutex-label garandeert dat het product dat het draagt een hoogwaardige oppervlakafwerking heeft. Onze research en development richten zich altijd op visuele aspecten, akoestische eigenschappen, werkomgeving, designtrends en milieuaspecten. Zo loopt Akutex altijd een stap voor.



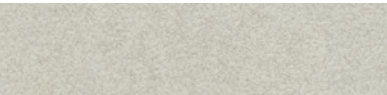
WHITE FROST
Benadert NCS kleurstaal S 0500-N.
Lichtreflectie 85%.



OCEAN STORM
Benadert NCS kleurstaal S 4020-R90B.
Lichtreflectie 24%.



MORNING DRIZZLE
Benadert NCS kleurstaal S 1002-B.
Lichtreflectie 69%.



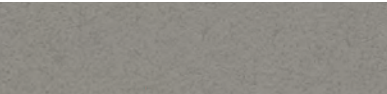
VOLCANIC ASH
Benadert NCS kleurstaal S 2002-Y.
Lichtreflectie 56%.



MOONLIGHT SKY
Benadert NCS kleurstaal S 7020-R90B.
Lichtreflectie 7%.



CLOUDY DAY
Benadert NCS kleurstaal S 1500-N.
Lichtreflectie 62%.



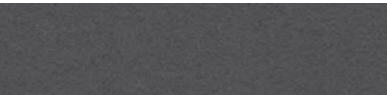
SILVER STONE
Benadert NCS kleurstaal S 4502-Y.
Lichtreflectie 29%.



GOLDEN FIELD
Benadert NCS kleurstaal S 1040-G90Y.
Lichtreflectie 61%.



PEACH ROSE
Benadert NCS kleurstaal S 1515-Y80R.
Lichtreflectie 55%.



SILK SLATE
Benadert NCS kleurstaal S 7000-N.
Lichtreflectie 13%.



SUNSET HEAT
Benadert NCS kleurstaal S 2070-Y60R.
Lichtreflectie 20%.



HIGHLAND FOG
Benadert NCS kleurstaal S 2005-G.
Lichtreflectie 55%.



GOJI BERRY
Benadert NCS kleurstaal S 3030-Y80R.
Lichtreflectie 27%.



RUBY ROCK
Benadert NCS kleurstaal S 4050-R10B.
Lichtreflectie 7%.



SAGE GARDEN
Benadert NCS kleurstaal S 3010-B30G.
Lichtreflectie 40%.



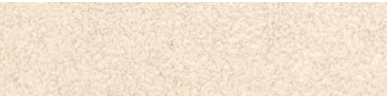
SILENT STEAM
Benadert NCS kleurstaal S 2010-B.
Lichtreflectie 45%.



EUCALYPTUS LEAF
Benadert NCS kleurstaal S 5010-B30G.
Lichtreflectie 23%.



FRESH CLOVER
Benadert NCS kleurstaal S 3020-G40Y.
Lichtreflectie 35%.



SCALLOP SHELLS
Benadert NCS kleurstaal S 0804-Y50R.
Lichtreflectie 76%.



SUMMER FOREST
Benadert NCS kleurstaal S 6030-G10Y.
Lichtreflectie 10%.



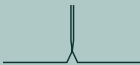
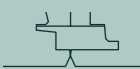
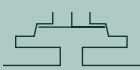
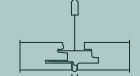
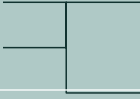
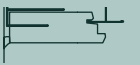
WET SAND
Benadert NCS kleurstaal S 3020-Y30R.
Lichtreflectie 35%.



DARK DIAMOND
Benadert NCS kleurstaal S 9000-N.
Lichtreflectie 4%.

Let op:
kleuren kunnen licht variëren tussen verschillende productiebatches.
De kleurweergave kan variëren tussen de afdruk en de werkelijkheid.

ECOPHON FOCUS OVERZICHT

KANTAFWERKING	PRODUCT	ABSORPTIE-KLASSE	CONNECT GRID	AFMETINGEN (MM)	ECOPHON LIGTHING	MOGELIJKE COMBINATIES
	Ecophon Focus A	A	T15/ T24	600x600x20, 1200x600x20, 1200x1200x20, 1600x600x20, 1800x600x20, 2000x600x20, 2400x600x20		Ecophon Focus Flexiform A Ecophon Focus Frieze
	Ecophon Focus B	C	Direct fixing	600x600x20 1200x600x20		
	Ecophon Focus Ds	A	T24	600x600x20 , 1200x600x20 , 1200x1200x20, 1600x600x20, 1800x600x20, 2000x600x20, 2400x600x20	Ecophon Dot Ecophon Square 43 Ecophon Line	Ecophon Focus Edge 500 Ecophon Focus Fixiform Ds Ecophon Focus Frieze Ecophon Focus Wing
	Ecophon Focus Dg	A	T24	600x600x20, 1200x600x20, 1200x1200x25, 1600x600x20, 1800x600x20, 2000x600x20, 2400x600x20	Ecophon Dot Ecophon Square 43 Ecophon Line	Ecophon Focus Edge 500 Ecophon Focus Frieze
	Ecophon Focus Dt	A	T24	600x600x20		Ecophon Focus Edge 500 Ecophon Focus Fixiform Ds Ecophon Focus Frieze Ecophon Focus Wing
	Ecophon Focus D/A	A	T24 Bandraster	1720x600x20, 2000x600x20, 2400x600x20		
	Ecophon Focus E	A	T15/ T24	600x600x20, 1200x600x20, 1200x1200x20, 1600x600x20 , 1800x600x20, 2000x600x20, 2400x600x20	Ecophon Dot Ecophon Square 43 Ecophon Line	Ecophon Focus Edge 500 Ecophon Focus Fixiform E Ecophon Focus Frieze Ecophon Focus Wing
	Ecophon Focus Ez	A	T24	600x600x40	Ecophon Dot Ecophon Square 43	
	Ecophon Focus F	C	Direct fixing	600x600x20, 1200x600x20		
	Ecophon Focus Lp	A	T24	600x150x20, 600x300x20, 600x600x20 1200x150x20, 1200x300x20, 1200x600x20 1800x600x20	Ecophon Line	
	Ecophon Focus SQ	C	Direct fixing	600x600x20, 1200x600x20		
	Ecophon Focus Levels	Up to A	Direct fixing, ceiling and wall	600x600x20, 1200x600x20, 1200x300x20, 600x600x30, 1200x600x30, 1200x300x30, 600x600x40, 1200x600x40, 1200x300x40		
	Ecophon Focus Flexiform A	A	T24	1200x600x30, 1600x600x30, 2000x600x30, 2400x600x30		Ecophon Focus A
	Ecophon Focus Fixiform E	A	T24	1200x600x20		Ecophon Focus E
	Ecophon Focus Fixiform Ds	A	T24	1200x600x20, 1500x600x20, 1900x600x20, 2300x600x20		Ecophon Focus Ds
	Ecophon Focus Frieze	A	T24	2400x600x20		Ecophon Focus A Ecophon Focus Ds Ecophon Focus Dg Ecophon Focus E
	Ecophon Focus Edge 500		T24	600x600x20, 1200x600x20, 1200x1200x20 1200x1200x25		Ecophon Focus Ds Ecophon Focus Dg Ecophon Focus E
	Ecophon Focus Wing	A	T24	600x200x50, 1200x200x50		Ecophon Focus Ds Ecophon Focus E



Ecophon Focus draagt bij aan een gezond binnenklimaat met superieure akoestische absorptie, lage VOS-emissies conform de strengste eisen en volledige chemische transparantie met een geverifieerd C2C Material Health Certificate. De lage CO2-voetafdruk van onze Focus panelen wordt door een onafhankelijke partij geverifieerd in Environmental Product Declarations.



Ecophon heeft al een van de laagste emissiewaarden op de markt en heeft nu een nieuwe mijlpaal bereikt voor onze complete plafondsysteem. Dankzij innovatie, koolstofarm staal en de introductie van biogas in onze productie, kunnen we nu onze CO2-voetafdruk verkleinen voor een geselecteerd assortiment complete systemen, inclusief panelen en ophangsystemen. Lees meer over CarbonLow op ecophon.nl.

De producten dragen niet bij aan brand en de glaswolkern van de Focus panelen is getest en geclassificeerd als onbrandbaar volgens EN ISO 1182. Brandclassificatie volgens EN 13501-1, zie de technische eigenschappen op het betreffende product.



36

FUNCTIONELE EIGENSCHAPPEN

AKOESTIEK, TECHNISCHE EIGENSCHAPPEN EN INSTALLATIESCHEMA'S

38	Focus A
41	Focus B
43	Focus Ds
48	Focus Dg
50	Focus Dt
52	Focus D/A
54	Focus E
56	Focus Ez
58	Focus F
60	Focus Lp
62	Focus SQ
64	Focus Levels
66	Focus Flexiform A
68	Focus Edge 500
69	Focus Fixiform E
71	Focus Fixiform Ds
73	Focus Frieze
75	Focus Wing
76	Square 43
77	Dot
79	Line

VOOR DE NEDERLANDSE VERSIE KUNT U
ONZE PRODUCTPAGINA'S OP DE WEBSITE
BEZOEKEN VIA DE QR-CODE:



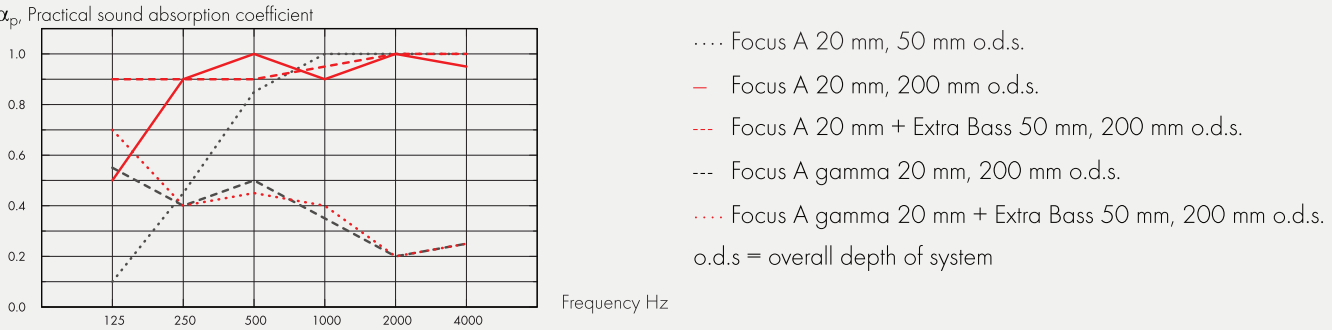
37



Ecophon Focus™ 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.

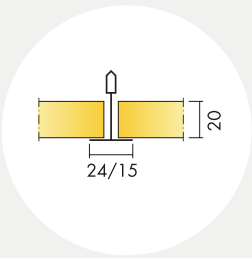


38

	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	0.50	0.90	1.00	0.90	1.00	0.95	1.00	A
+ Extra Bass,	70	200	0.90	0.90	0.90	0.95	1.00	1.00	0.95	A
gamma	20	200	0.55	0.40	0.50	0.35	0.20	0.25	0.30	D
gamma + Extra Bass	70	200	0.70	0.40	0.45	0.40	0.20	0.25	0.30	D

	THK mm	o.d.s. mm	NRC	SAA
-	20	50	0.85	0.83
-	20	200	0.95	0.93
+ Extra Bass,	70	200	0.93	0.93
gamma	20	200	0.35	0.36
gamma + Extra Bass	70	200	0.35	0.37
-	20	400	0.85	0.88

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
20	190	20	21



Indoor Air Quality:

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

Environmental Footprint: Life-cycle stages A1 to C4 from EPD, in conformity with ISO 14025 / EN 15804

	kg CO ₂ equiv/m ²
Focus A	2,6 (Focus family EPD in conformity with ISO 14025 / EN 15804)
Focus A/Plant	1,81 (Focus A/Plant EPD in conformity with ISO 14025 / EN 15804)

Circularity: Minimum post-consumer recycled content: 51%, Recyclability: Fully recyclable,

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

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

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

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

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

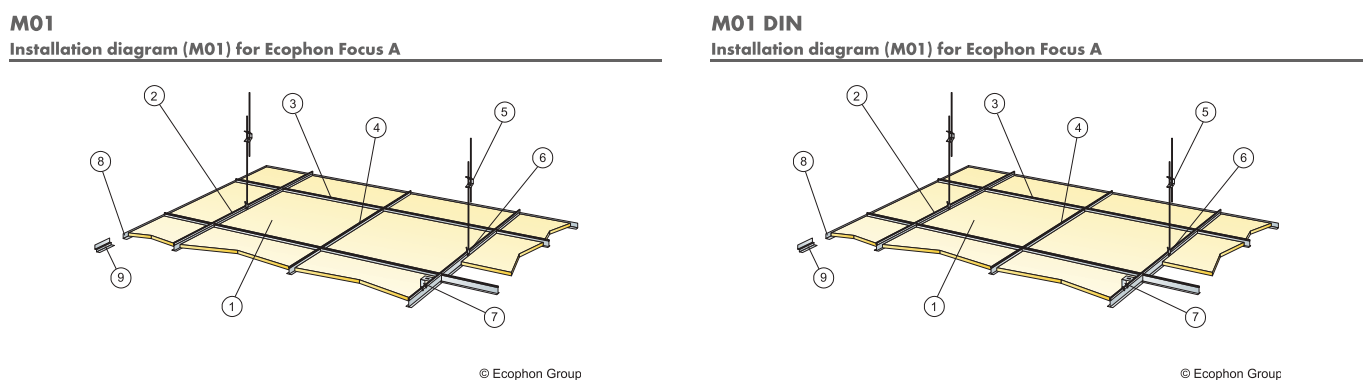
Installation: Installed according to installation diagrams, installation guides and drawing aid. For information regarding minimum overall depth of system see quantity specification.

System weight: The weight of the system (including suspension grid) should be approximately 3 kg/m².

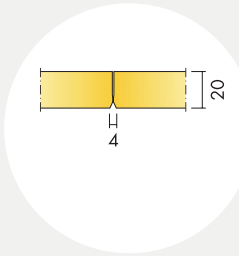
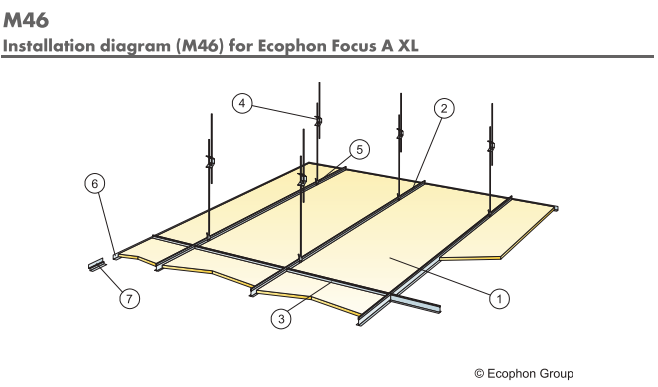
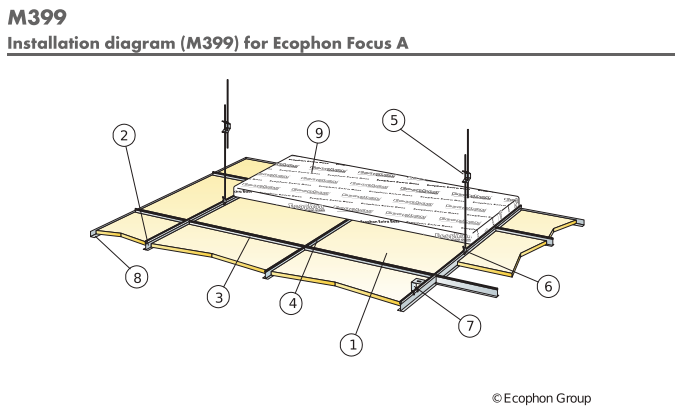
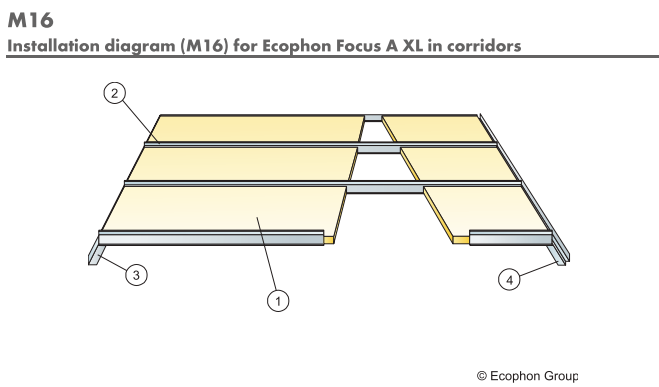
Mechanical properties: See table about Max live load and Min load bearing capacity and Functional demands, Mechanical properties at www.ecophon.com.

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



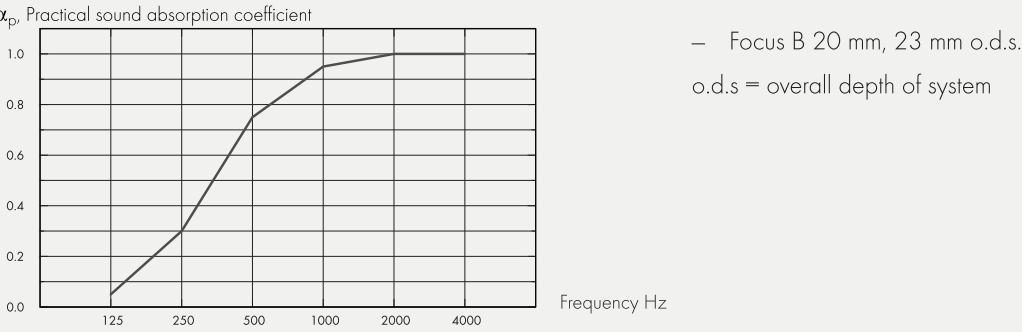
39



Ecophon Focus™ 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.



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	23	0.05	0.30	0.75	0.95	1.00	1.00	0.60	C

	THK mm	o.d.s. mm	NRC	SAA
-	20	23	0.75	0.76

Indoor Air Quality:

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

Environmental Footprint: Life-cycle stages A1 to C4 from EPD, in conformity with ISO 14025 / EN 15804

	kg CO ₂ equiv/m ²
Focus B	4,10

Circularity: Minimum post-consumer recycled content: 56%, Recyclability: Fully recyclable,

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

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

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

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

Accessibility: The tiles are not demountable.

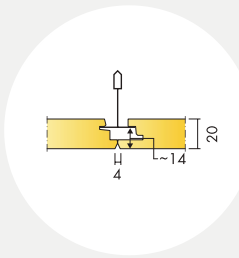
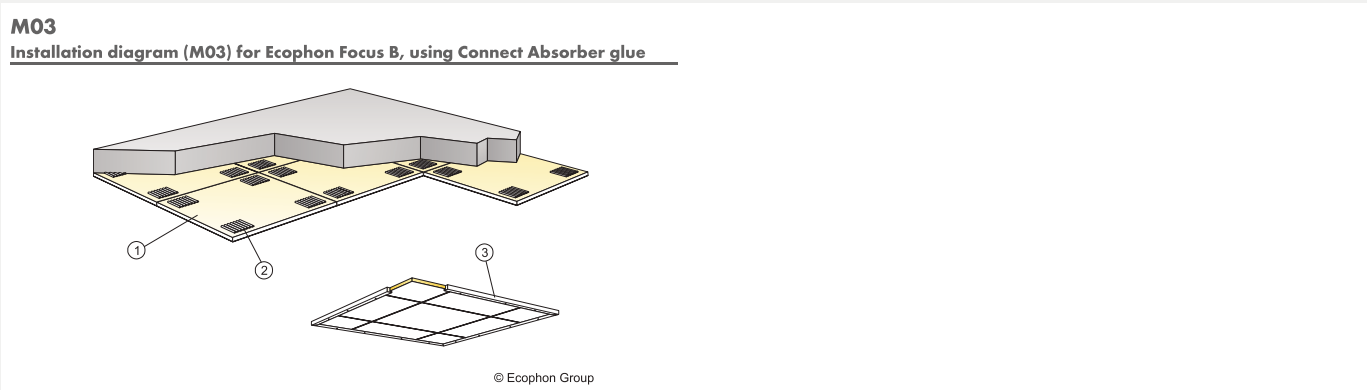
Installation: Installed according to installation diagrams, installation guides and drawing aid. For information regarding minimum overall depth of system see quantity specification. Rendered surfaces must have sufficient strength to be able to carry the load imposed by the tiles. If doubts, test gluing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

System weight: The weight of the system should be approximately 2,5 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.

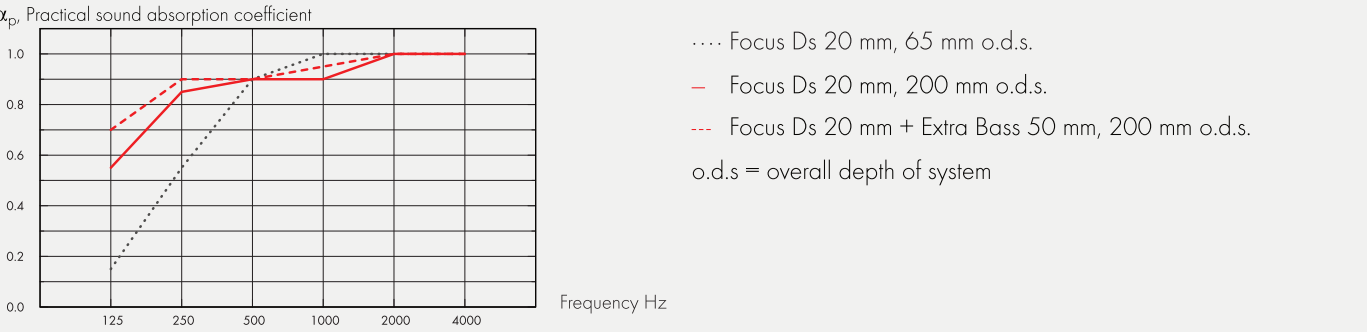
Installation diagram in detail www.ecophon.com



Ecophon Focus™ Ds

Acoustics:

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



	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	0.15	0.55	0.90	1.00	1.00	1.00	0.85	B
-	20	200	0.55	0.85	0.90	0.90	1.00	1.00	0.95	A
+ Extra Bass	70	200	0.70	0.90	0.90	0.95	1.00	1.00	0.95	A

	THK mm	o.d.s. mm	NRC	SAA
-	20	65	0.85	0.86
-	20	200	0.90	0.93
+ Extra Bass	70	200	0.95	0.95

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
20	180	24	23

Indoor Air Quality:

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

Indoor Air Quality:

Certificate / Label	6x6, 12x6 White Frost/Dark Diamond - 12x12 White Frost	Other formats
Eurofins Indoor Air Comfort®	IAC Gold	IAC Gold
French VOC	A+	A+
Finnish M1		•

Indoor Air Quality: In collaboration with the Allergy, Skin and Asthma Association

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

	kg CO ₂ equiv/m ²
Focus Ds (EN 15804+A2)	3,70

Circularity: Minimum post-consumer recycled content: 54%, Recyclability: Fully recyclable,

Circularity: Minimum post-consumer recycled content: 54%, Recyclability: Fully recyclable,

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

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

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

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

Accessibility: The tiles in size 600x600 and 1200x600 are easliy demountable. The tiles in size 1200x1200 and XL sizes are 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.

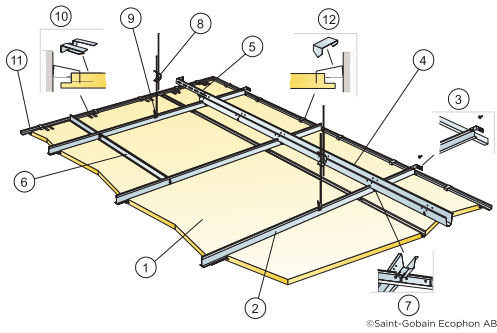
System weight: The weight of the system (including suspension grid) should be approximately 3kg/m² and 4,5kg/m² with Extra Bass

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

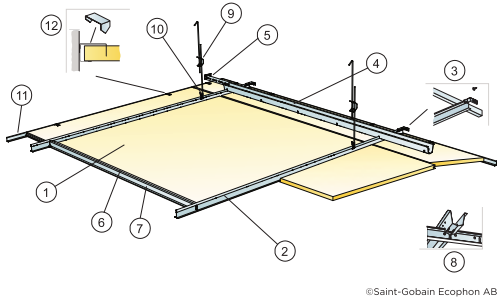
CE: Ecophon ceiling systems are CE marked according to the European harmonized standard EN13964:2014. CE marked construction products are covered by a Declaration of Performance (DOP) which enables customers and users to easily compare performance of products available on the European market.

Installation diagram in detail www.ecophon.com

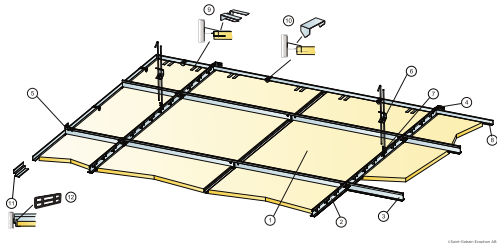
M581
Installation diagram (M581) for Ecophon Focus Ds 600x600, 1200x600 mm and Ecophon Focus Ds XL. Suspended installation



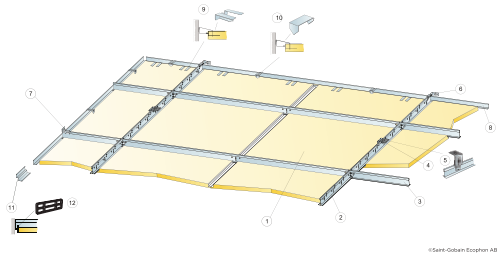
M582
Installation diagram (M582) for Ecophon Focus Ds 1200x1200 mm. Suspended installation



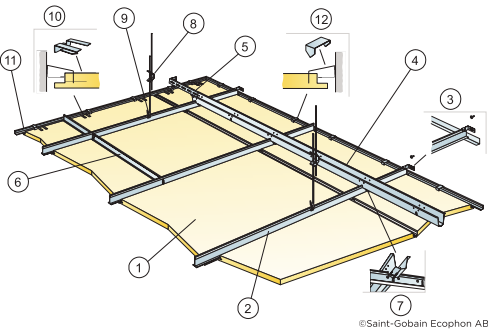
M583DIN
Installation diagram (M583DIN) for Ecophon Focus Ds 625x625, 1250x625 mm. Suspended installation



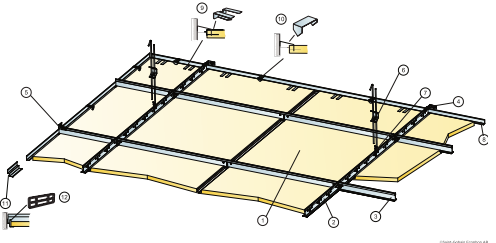
M584DIN
Installation diagram (M584DIN) for Ecophon Focus Ds 625x625, 1250x625 mm. Direct installation



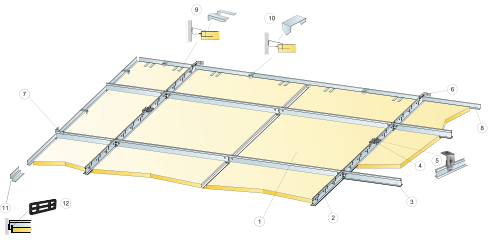
M581DIN
Installation diagram (M581DIN) for Ecophon Focus Ds 625x625, 1250x625 mm. Suspended installation



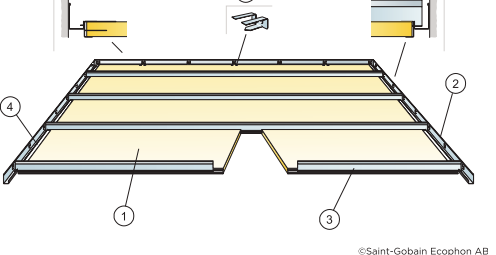
M583
Installation diagram (M583) for Ecophon Focus Ds 600x600, 1200x600 mm. Suspended installation



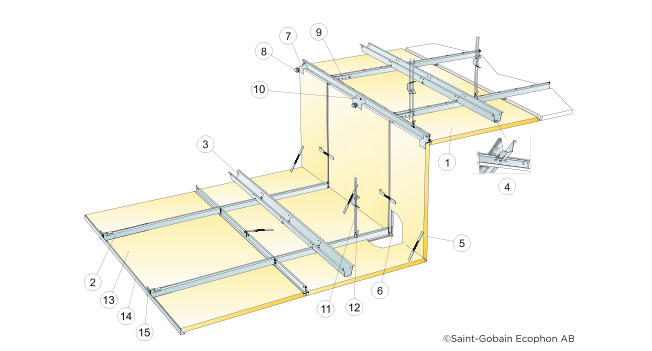
M584
Installation diagram (M584) for Ecophon Focus Ds 600x600, 1200x600 mm. Direct installation



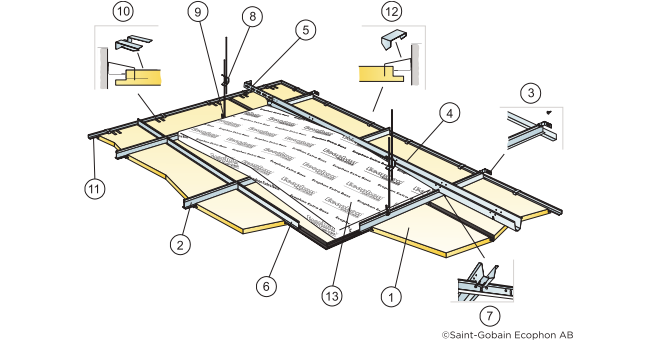
M238
Installation diagram (M238) for Ecophon Focus Ds XL in corridors



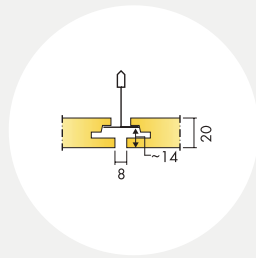
M613
Installation diagram (M613) for Ecophon Focus Ds Level change. Suspended installation



M614
Installation diagram (M614) for Ecophon Focus Ds. Suspended installation



Ecophon Focus™ Dg

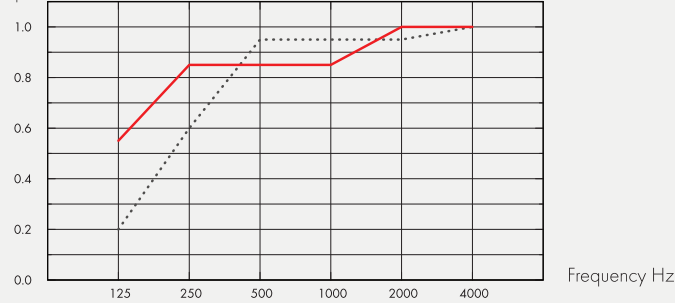


Acoustic:

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



..... Focus Dg 20 mm, 65 mm o.d.s.
— Focus Dg 20 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		
20	65	0.20	0.60	0.95	0.95	0.95	1.00	0.90	A
20	200	0.55	0.85	0.85	0.85	1.00	1.00	0.90	A

	THK mm	o.d.s. mm	NRC	SAA
-	20	65	0.90	0.89
-	20	400	0.80	0.82

THK mm	AC(1.5) Articulation Class, ASTM E1111, ASTM E1110
20	180

Indoor Air Quality:

Certificate / Label

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

Environmental Footprint: Life-cycle stages A1 to C4 from EPD, in conformity with ISO 14025 / EN 15804

	kg CO ₂ equiv/m ²
Focus Dg	4,20

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

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

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

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

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

Accessibility: The tiles in size 600x600 and 1200x600 are easily demountable. The tiles in size 1200x1200 and XL sizes are 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 3-4 kg/m².

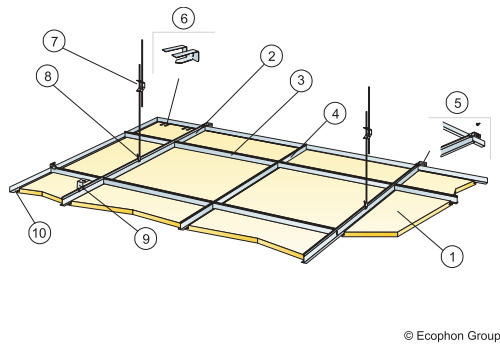
Mechanical properties: See table about Max live load and Min load bearing capacity and Functional demands, Mechanical properties at www.ecophon.com.

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

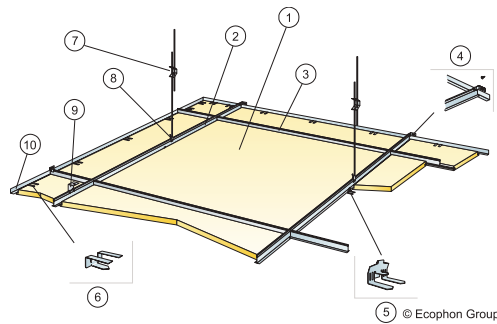
M202

Installation diagram (M202) for Ecophon Focus Dg 600x600, 1200x600 mm



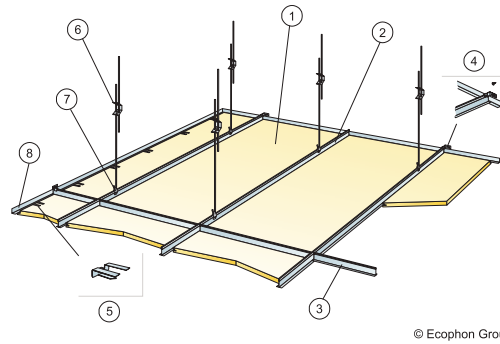
M203

Installation diagram (M203) for Ecophon Focus Dg 1200x1200 mm



M204

Installation diagram (M204) for Ecophon Focus Dg XL



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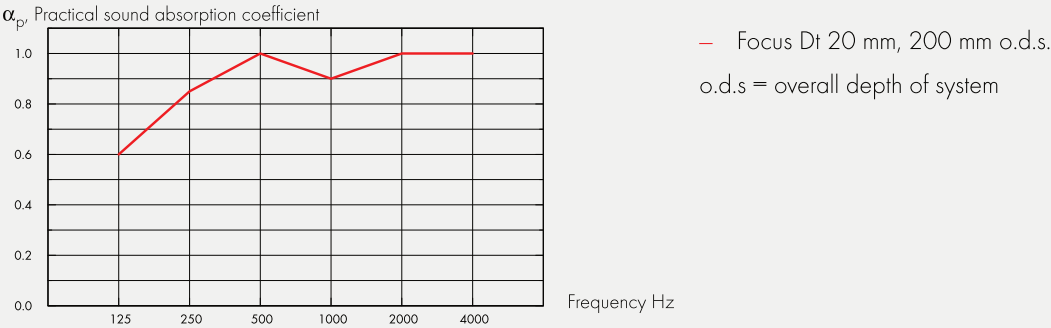


Ecophon Focus™ Dt

Acoustics:

Sound Absorption:

Test results according to EN ISO 354. Classification according to EN ISO 11654, and the single value rating for Noise Reduction Coefficient, NRC, according to ASTM C 423.



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	200	0.60	0.85	1.00	0.90	1.00	1.00	1.00	A

THK mm	o.d.s. mm	NRC	SAA
20	200	0.95	

Indoor Air Quality:

Certificate / Label	
Eurofins Indoor Air Comfort®	IAC Gold
French VOC	A+

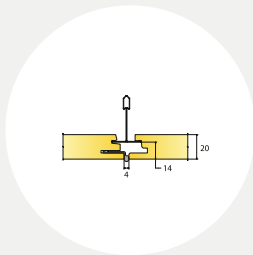
Indoor Air Quality: In collaboration with the Allergy, Skin and Asthma Association

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.

Carbon footprint: Life-cycle stages A1 to C4 from EPD, in conformity with ISO 14025 / EN 15804

	kg CO ₂ equiv/m ²
Focus Dt (EN 15804+A2)	3,68



Carbon footprint: Étapes de cycle de vie A1 à C4 de la FDES, en conformité avec NF EN 15804/CN

	kg CO ₂ equiv/m ²
Focus Dt (EN 15804+A2)	5,28

Circularity: Minimum post-consumer recycled content: 54%, Recyclability: Fully recyclable,

Circularity: Minimum post-consumer recycled content: 54%, Recyclability: Fully recyclable,

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

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

Visual appearance: Dark Diamond: Nearest NCS colour sample S 9000-N, 4% light reflectance, 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 in size 600x600 is 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.

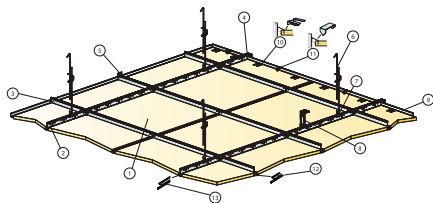
System weight: Weight information is indicative and subject to variation. Focus Dt: 2, Focus Dt + Connect grid system: 3,3,

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

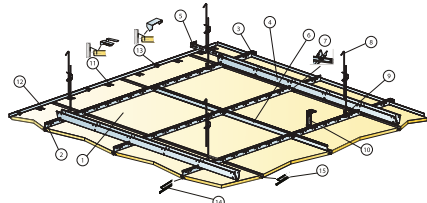
CE: Ecophon ceiling systems are CE marked according to the European harmonized standard EN13964:2014. CE marked construction products are covered by a Declaration of Performance (DOP) which enables customers and users to easily compare performance of products available on the European market.

Installation diagram in detail www.ecophon.com

M673
Installation diagram (M673) for Ecophon Focus Dt 600x600. Suspended installation

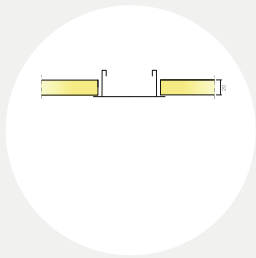


M674
Installation diagram (M674) for Ecophon Focus Dt 600x600. Suspended installation



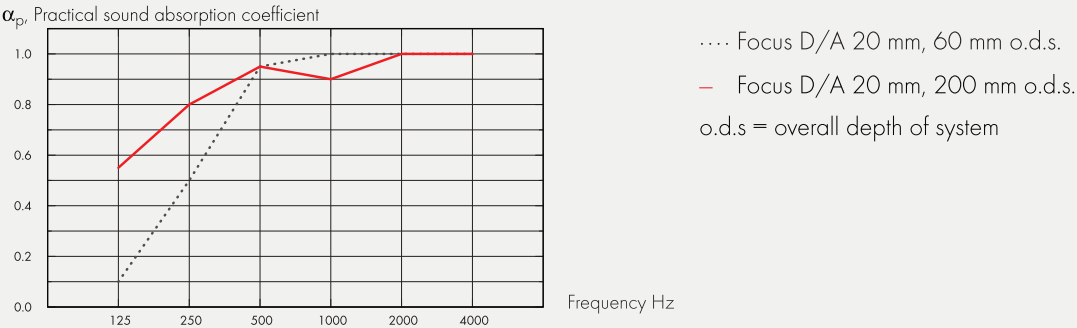


Ecophon Focus™ D/A



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.



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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		
20	60	0.10	0.50	0.95	1.00	1.00	1.00	0.80	A
20	200	0.55	0.80	0.95	0.90	1.00	1.00	0.95	A

	THK mm	o.d.s. mm	NRC	SAA
-	20	60	0.90	0.89
-	20	400	0.80	0.82

THK mm	AC(1.5)	D_{nfw}	CAC dB
	Articulation Class, ASTM E1111, ASTM E1110	Weighted normalized flanking level difference, ISO 10848-2	Ceiling Attenuation Class, ASTM 1414, ASTM E413
20	180	24	25

Indoor Air Quality:

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

Environmental Footprint: Life-cycle stages A1 to C4 from EPD, in conformity with ISO 14025 / EN 15804

	kg CO ₂ equiv/m ²
Focus DA	4,32

Circularity: Minimum post-consumer recycled content: 57%, Recyclability: Fully recyclable,

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

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

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

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

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

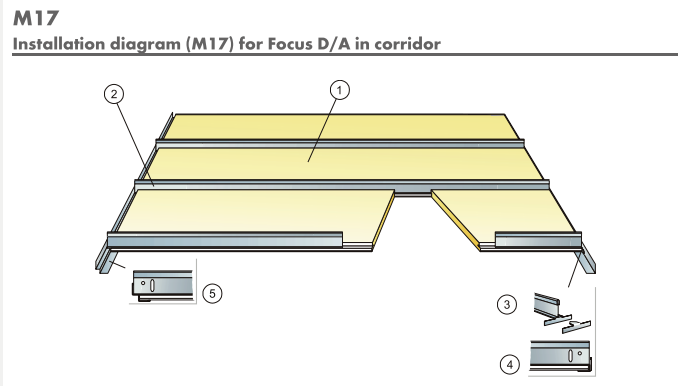
Installation: Installed according to installation diagram and bandraster/grid supplier recommendations.

System weight: The weight of the system (including suspension grid) should be approximately 2 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.

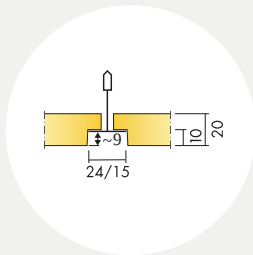
Installation diagram in detail www.ecophon.com



53



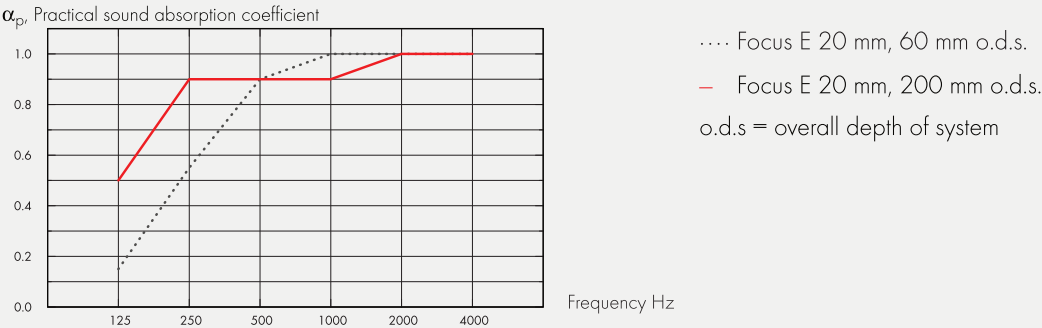
Ecophon Focus™ E



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.



54

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	0.55	0.90	1.00	1.00	1.00	0.85	B
20	200	0.50	0.90	0.90	0.90	1.00	1.00	0.95	A

	THK mm	o.d.s. mm	NRC	SAA
-	20	60	0.90	0.87
-	20	400	0.85	0.85

THK mm	AC(1.5)	D_{nfw}	CAC dB
	Articulation Class, ASTM E1111, ASTM E1110	Weighted normalized flanking level difference, ISO 10848-2	Ceiling Attenuation Class, ASTM 1414, ASTM E413
20	180	22	23

Indoor Air Quality:

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

Environmental Footprint: Life-cycle stages A1 to C4 from EPD, in conformity with ISO 14025 / EN 15804

	kg CO ₂ equiv/m ²
Focus E	3,66
Focus E/Plant	2,35

Circularity: Minimum post-consumer recycled content: 55%, Recyclability: Fully recyclable,

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

Humidity Resistance: 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.

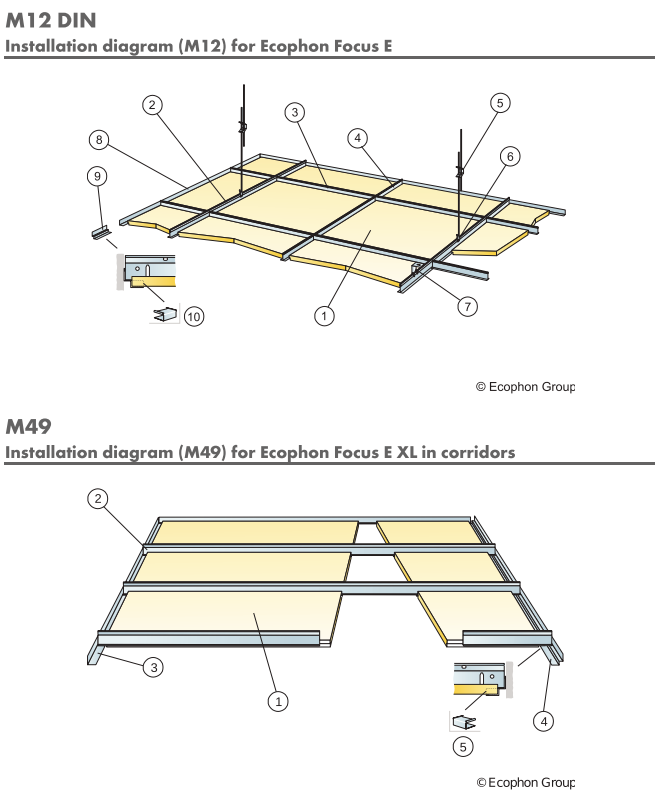
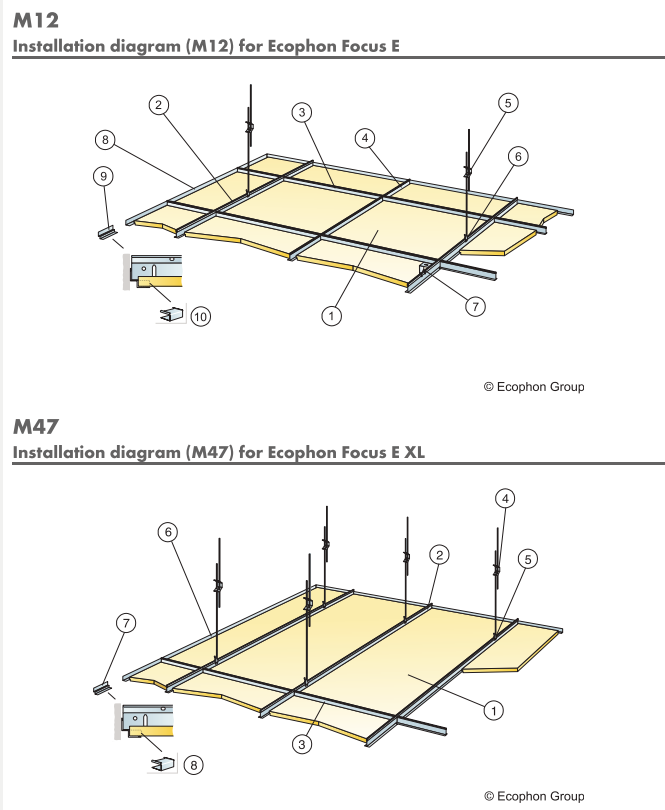
Installation: Installed according to installation diagrams, installation guides and drawing aid. For information regarding minimum overall depth of system see quantity specification.

System weight: The weight of the system (including suspension grid) should be approximately 3 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.

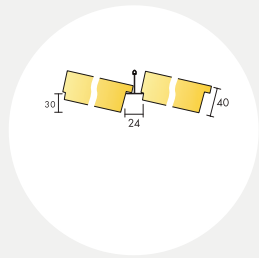
Installation diagram in detail www.ecophon.com



55

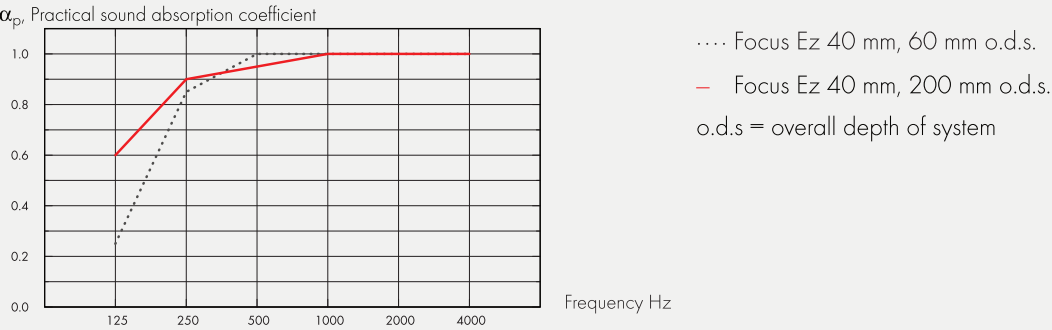


Ecophon Focus™ Ez



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.



56

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	0.85	1.00	1.00	1.00	1.00	1.00	A
40	200	0.60	0.90	0.95	1.00	1.00	1.00	1.00	A

	THK mm	o.d.s. mm	NRC	SAA
-	40	60	1.00	0.99
-	40	200	1.00	0.97

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

Indoor Air Quality:

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

Environmental Footprint: Life-cycle stages A1 to C4 from EPD, in conformity with ISO 14025 / EN 15804

	kg CO ₂ equiv/m ²
Focus Ez	5,9

Circularity: Minimum post-consumer recycled content: 62%, Recyclability: Fully recyclable,

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

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

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

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

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

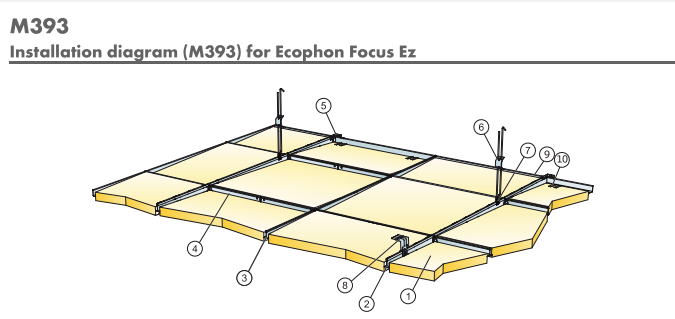
Installation: Installed according to installation diagrams, installation guides and drawing aid. For information regarding minimum overall depth of system see quantity specification.

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

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

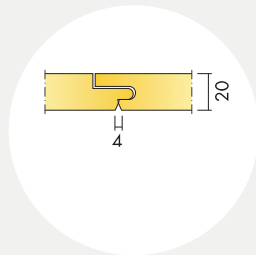
CE: Ecophon ceiling systems are CE marked according to the European harmonized standard EN13964:2014. CE marked construction products are covered by a Declaration of Performance (DOP) which enables customers and users to easily compare performance of products available on the European market.

Installation diagram in detail www.ecophon.com



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Ecophon Focus™ F

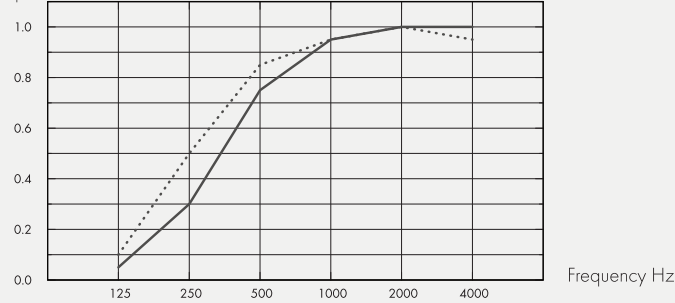


Acoustic:

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.

α_p , Practical sound absorption coefficient



— Focus F 20 mm, 20 mm o.d.s.
.... Focus F 20 mm, 40 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		
20	20	0.05	0.30	0.75	0.95	1.00	1.00	0.60	C
20	40	0.10	0.50	0.85	0.95	1.00	0.95	0.80	B

	THK mm	o.d.s. mm	NRC	SAA
-	20	20	0.75	0.76
-	20	40	0.85	0.82

Indoor Air Quality:

Certificate / Label

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

Environmental Footprint: Life-cycle stages A1 to C4 from EPD, in conformity with ISO 14025 / EN 15804

	kg CO ₂ equiv/m ²
Focus F	4,90

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

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

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

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

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

Accessibility: The tiles are not demountable.

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

System weight: The weight of the system should be approximately 2,5 kg/m²

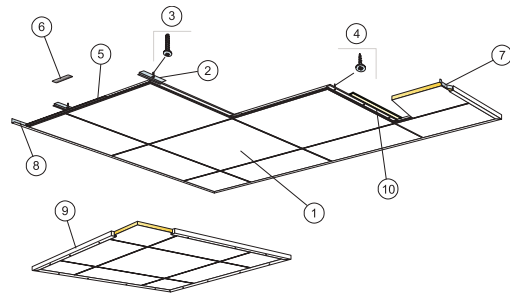
Mechanical properties: Additional live load has to be fixed to the soffit.

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

M15

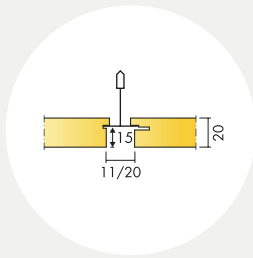
Installation diagram (M15) for Ecophon Focus F



© Ecophon Group



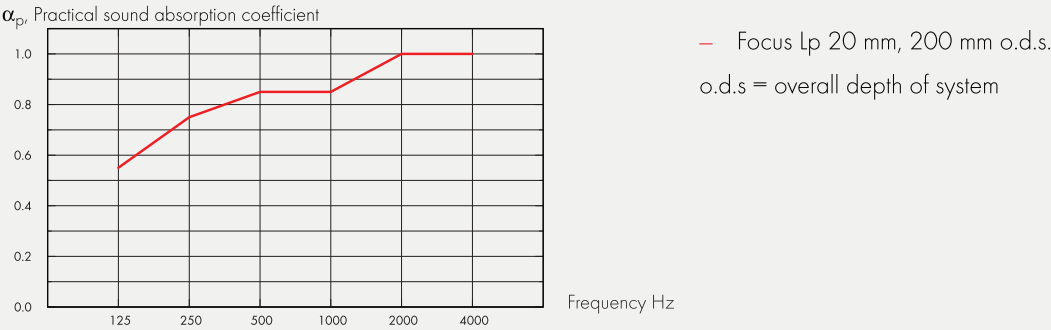
Ecophon Focus™ Lp



Acoustic:

Sound Absorption:

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



THK mm	o.d.s. mm	α_p , Practical sound absorption coefficient						α_w	Sound absorption class
		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz		
20	200	0.55	0.75	0.85	0.85	1.00	1.00	0.90	A

	THK mm	o.d.s. mm	NRC	SAA
-	20	400	0.80	0.82

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
20	180	24	25

Indoor Air Quality:

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

Environmental Footprint: Life-cycle stages A1 to C4 from EPD, in conformity with ISO 14025 / EN 15804

	kg CO ₂ equiv/m ²
Focus Lp	4,66

Circularity: Minimum post-consumer recycled content: 57%, Recyclability: Fully recyclable,

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

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

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

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

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

Installation: Installed according to installation diagrams, installation guides and drawing aid. For information regarding minimum overall depth of system see quantity specification. The systems are not recommended for small rooms (approximately 2x2 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 3-4 kg/m².

Mechanical properties: See table about Max live load and Min load bearing capacity and Functional demands, Mechanical properties at www.ecophon.com. For the Technical tiles installed according to M391 there is a load bearing capacity of 100 N for each Main runner per 1200 mm. This gives a total load bearing capacity of 200 N for a load evenly distributed on two Main runners.

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.

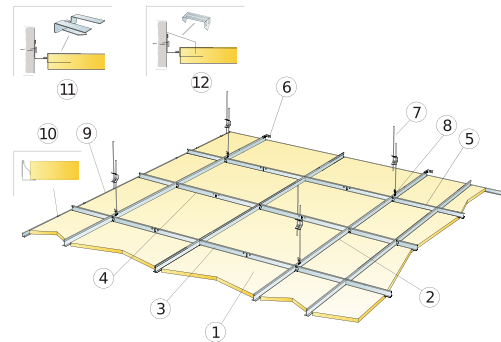
Indoor Air Quality:

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

Installation diagram in detail www.ecophon.com

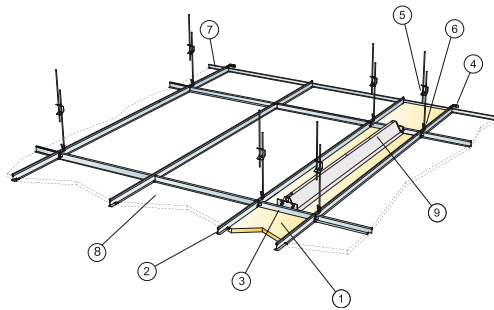
M390

Installation diagram (M278) for Ecophon Focus Lp



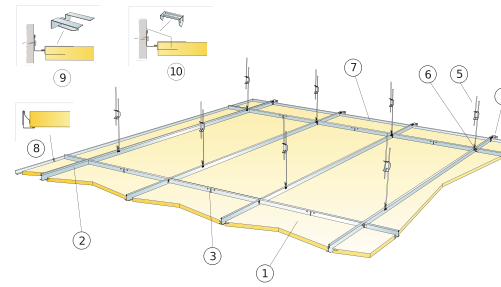
M391

Installation diagram (M279) for Ecophon Focus Lp Technical tile



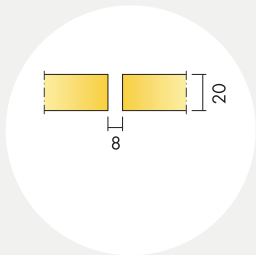
M392

Installation diagram (M278) for Ecophon Focus Lp XL





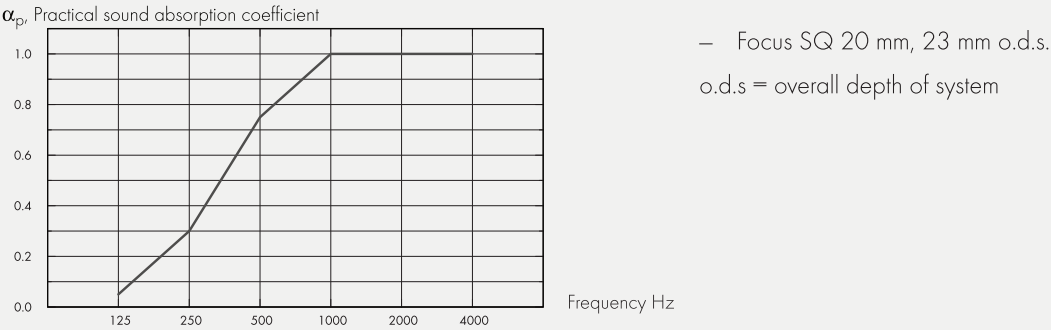
Ecophon Focus™ SQ



Acoustic:

Sound Absorption:

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



THK mm	o.d.s. mm	α_p , Practical sound absorption coefficient						α_w	Sound absorption class
		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz		
20	23	0.05	0.30	0.75	1.00	1.00	1.00	0.60	C

	THK mm	o.d.s. mm	NRC	SAA
-	20	23	0.75	0.78

THK mm	AC(1.5) Articulation Class, ASTM E1111, ASTM E1110
20	190

Indoor Air Quality:

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

Environmental Footprint: Life-cycle stages A1 to C4 from EPD, in conformity with ISO 14025 / EN 15804

	kg CO ₂ equiv/m ²
Focus SQ	4,88

Circularity: Minimum post-consumer recycled content: 57%, Recyclability: Fully recyclable,

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

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

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

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

Accessibility: The tiles are not demountable.

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

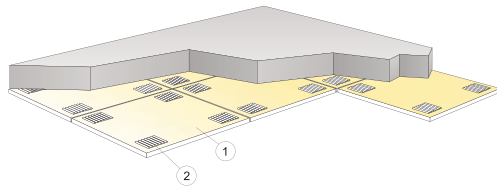
System weight: The weight of the system should be approximately 2,5 kg/m²

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

M107
Installation diagram (M107) for Ecophon Focus SQ, using Connect Absorber glue



© Ecophon Group

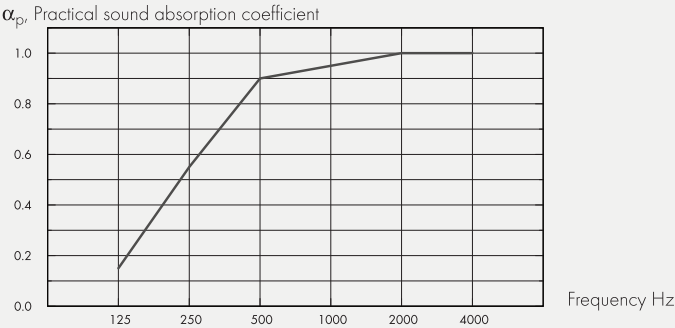
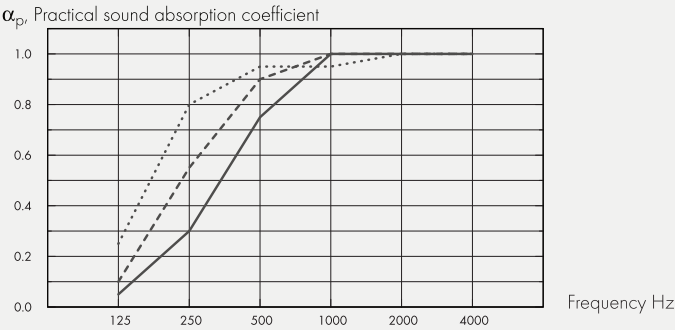


Ecophon Focus™ Levels

Acoustic:

Sound Absorption:

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



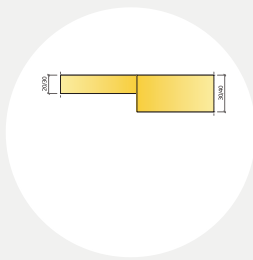
THK mm	o.d.s. mm	α_p , Practical sound absorption coefficient						α_w	Sound absorption class
		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz		
40	43	0.25	0.80	0.95	0.95	1.00	1.00	1.00	A
30	33	0.10	0.55	0.90	1.00	1.00	1.00	0.85	B
20	23	0.05	0.30	0.75	1.00	1.00	1.00	0.60	C
0	43	0.15	0.55	0.90	0.95	1.00	1.00	0.85	B

	THK mm	o.d.s. mm	NRC	SAA
-	20	23	0.75	0.78

Indoor Air Quality:

Certificate / Label

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



Environmental Footprint: Life-cycle stages A1 to C4 from EPD, in conformity with ISO 14025 / EN 15804

	kg CO ₂ equiv/m ²
Focus Levels 20mm	5,03
Focus Levels 30mm	6,23
Focus Levels 40mm	7,44

Circularity: Minimum post-consumer recycled content (20 mm): 58%, Minimum post-consumer recycled content (30 mm): 62%, Minimum post-consumer recycled content (40 mm): 64%, Recyclability: Fully recyclable,

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

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

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

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

Accessibility: The tiles are not demountable.

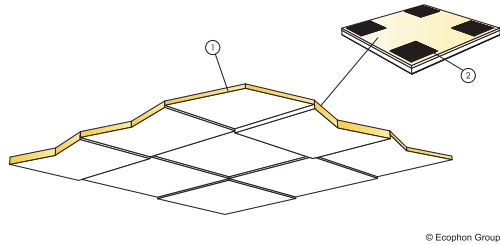
Installation: Installed according to installation diagrams, installation guides and drawing aid. For information regarding minimum overall depth of system see quantity specification. Rendered surfaces must have sufficient strength to be able to carry the load imposed by the tiles. If doubts, test gluing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

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

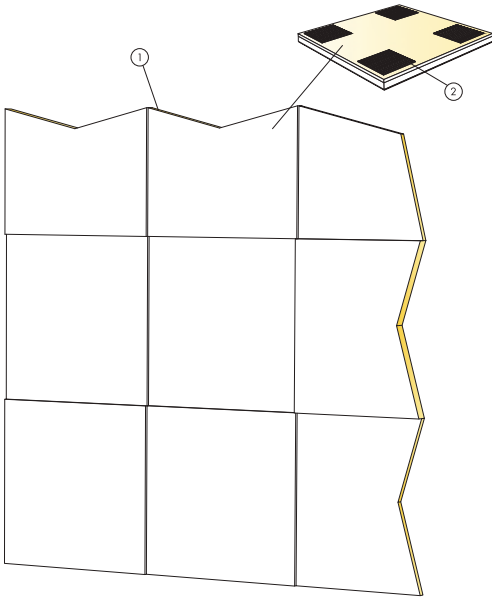
CE: Ecophon ceiling systems are CE marked according to the European harmonized standard EN13964:2014. CE marked construction products are covered by a Declaration of Performance (DOP) which enables customers and users to easily compare performance of products available on the European market.

Installation diagram in detail www.ecophon.com

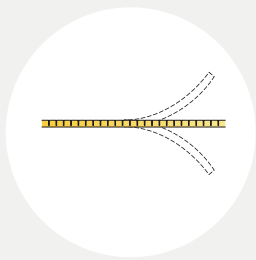
M488
Installation diagram (M488) for Ecophon Focus Levels, using Connect Absorber glue



M489
Installation diagram (M489) for Ecophon Focus Levels, using Connect Absorber glue



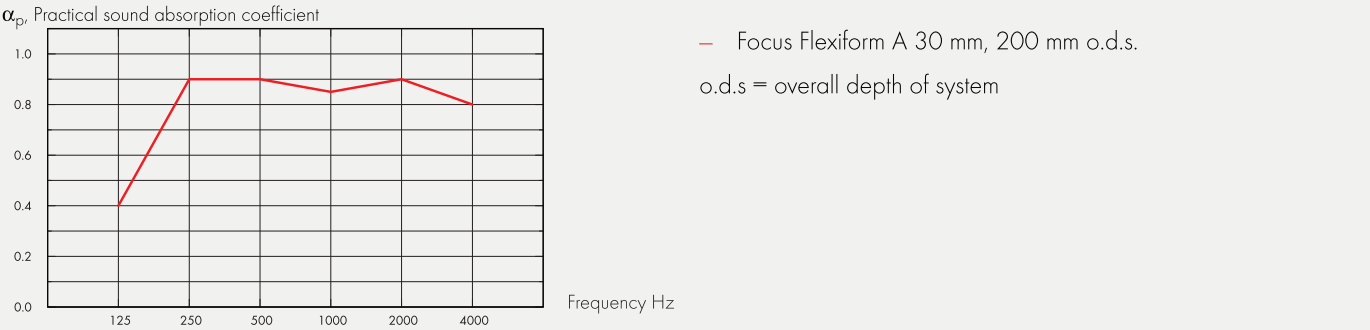
Ecophon Focus™ Flexiform A



Acoustic: Acoustic values corresponding to a flat ceiling.

Sound Absorption:

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



THK mm	o.d.s. mm	α _p , Practical sound absorption coefficient						α _w	Sound absorption class
		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz		
30	200	0.40	0.90	0.90	0.85	0.90	0.80	0.90	A

THK mm	D _{nfw}			CAC dB	
	Weighted normalized flanking level difference, ISO 10848-2			Ceiling Attenuation Class, ASTM 1414, ASTM E413	
20	24			25	

Environmental Footprint: Life-cycle stages A1 to C4 from EPD, in conformity with ISO 14025 / EN 15804

	kg CO ₂ equiv/m ²
Focus Flexiform A	3,1

Circularity: Minimum post-consumer recycled content: 39%, Recyclability: Fully recyclable,

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

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

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

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

Accessibility: The tiles are not demountable.

Installation: Installed according to installation diagrams, installation guides and drawing aid. (Please note: Extreme incident light, near windows or other light sources, can create undesired shadow effects on the structured surface on curved installations.)

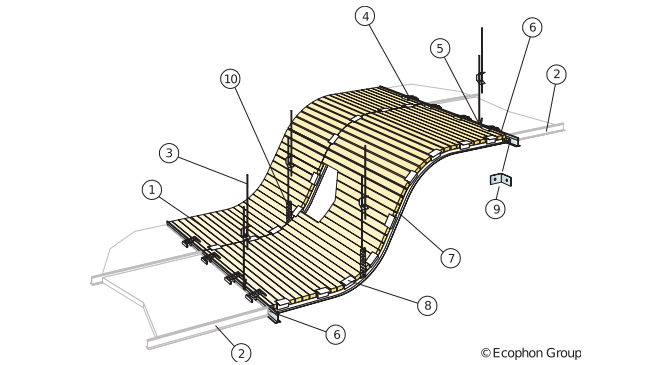
System weight: The weight is approximately 3 kg/m², depending on the installation method.

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

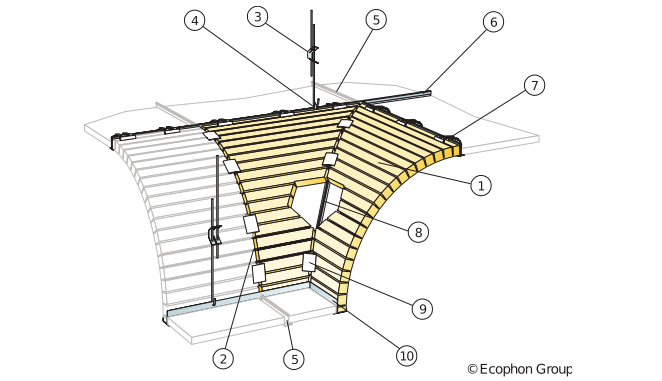
CE: Ecophon ceiling systems are CE marked according to the European harmonized standard EN13964:2014. CE marked construction products are covered by a Declaration of Performance (DOP) which enables customers and users to easily compare performance of products available on the European market.

Installation diagram in detail www.ecophon.com

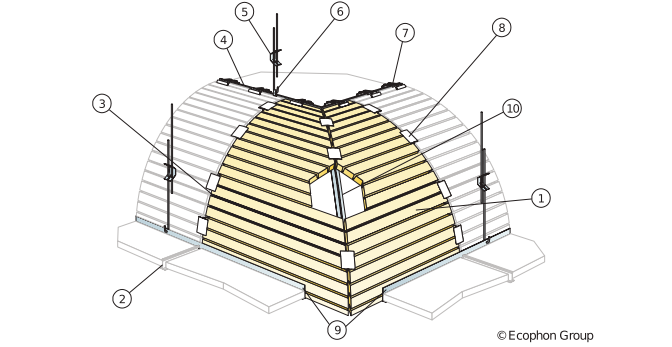
M31
Installation diagram (M31) for Ecophon Focus Flexiform A



M31ec
Installation diagram (M31EC) for Ecophon Focus Flexiform A external corner



M31ic
Installation diagram (M31IC) for Ecophon Focus Flexiform A internal corner



Ecophon Focus Edge™ 500

Acoustic: Ecophon Focus Edge 500 is a perimeter component. For acoustic data on the system - please see corresponding ceiling system (Focus Ds, Focus Dg or Focus/Master E).

Circularity: Fully recyclable.

Fire safety: Europe: EN 13501-1, A1,

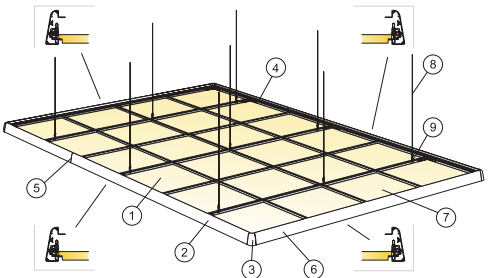
Installation: Installed according to installation diagrams, installation guides and drawing aid. For information regarding minimum overall depth of system see quantity specification.

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.

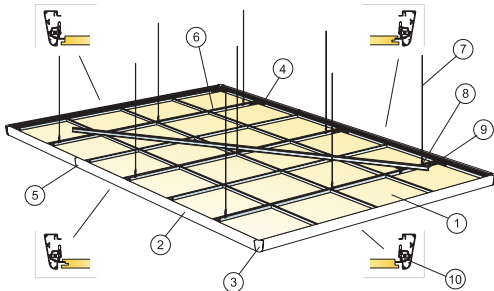
Installation diagram in detail www.ecophon.com

M165
Installation diagram (M165) for Ecophon Edge 500 with Focus E T24



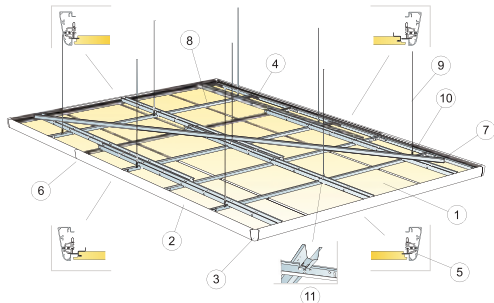
© Ecophon Group

M211
Installation diagram (M211) for Ecophon Edge 500 with Focus Dg



© Ecophon Group

M210
Installation diagram (M210) for Ecophon Edge 500 with Focus Ds

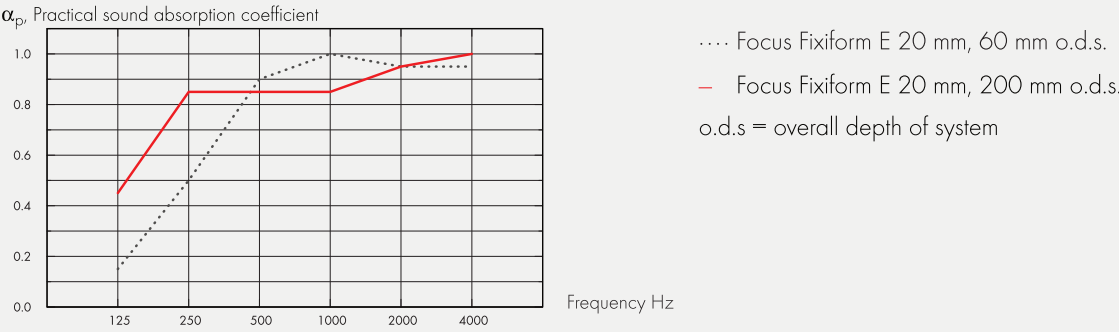


Ecophon Focus™ Fixiform E

Acoustic: Acoustic values corresponding to a flat ceiling.

Sound Absorption:

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



THK mm	o.d.s. mm	α_{pr} 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	0.50	0.90	1.00	0.95	0.95	0.80	B
20	200	0.45	0.85	0.85	0.85	0.95	1.00	0.90	A

THK mm	D_{nfw}				CAC dB	
	Weighted normalized flanking level difference, ISO 10848-2				Ceiling Attenuation Class, ASTM 1414, ASTM E413	
20	24				25	

Indoor Air Quality:

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

Circularity: Minimum post-consumer recycled content: 57%, Recyclability: Fully recyclable,

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

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

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

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

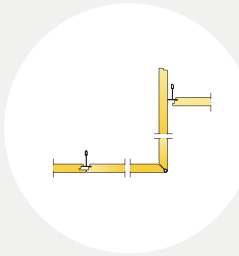
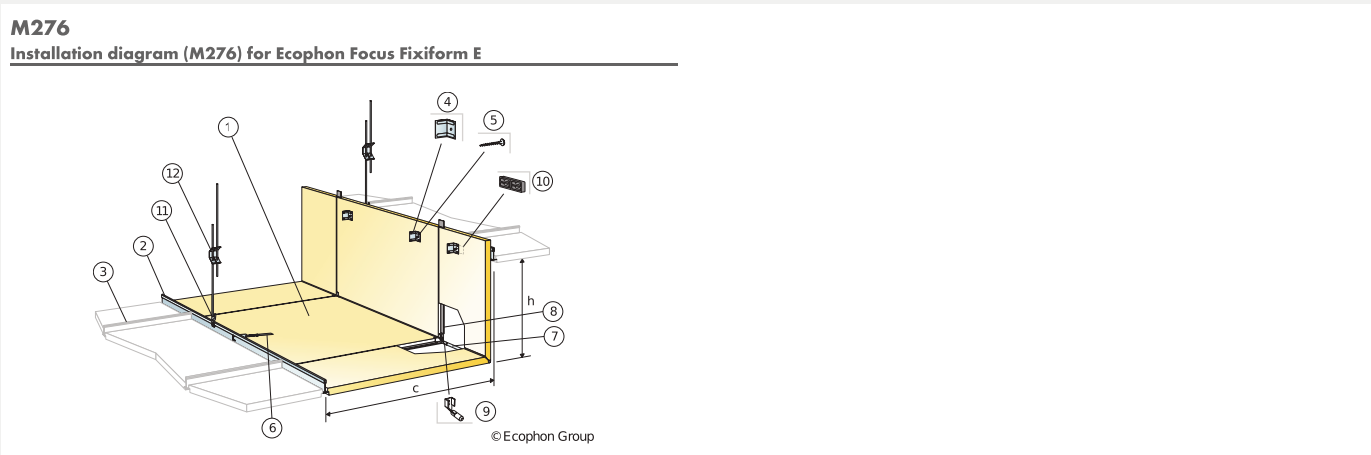
Accessibility: The panels are demountable via adjacent flat ceiling tiles.

Installation: Installed according to installation diagrams, installation guides and drawing aid. Focus Fixiform E is supplied with all necessary installation accessories.

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.

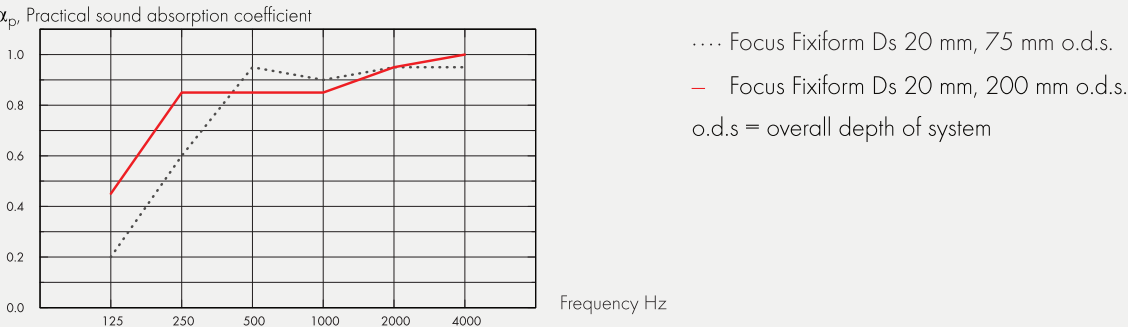
Installation diagram in detail www.ecophon.com



Ecophon Focus™ Fixiform Ds

Acoustic: Acoustic values corresponding to a flat ceiling.

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		
20	75	0.20	0.60	0.95	0.90	0.95	0.95	0.90	A
20	200	0.45	0.85	0.85	0.85	0.95	1.00	0.90	A

THK mm	D_{nfw}		CAC dB	
	Weighted normalized flanking level difference, ISO 10848-2		Ceiling Attenuation Class, ASTM 1414, ASTM E413	
20	24		25	

Indoor Air Quality:

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

Circularity: Minimum post-consumer recycled content: 57%, Recyclability: Fully recyclable,

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

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

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

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

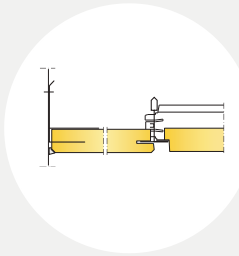
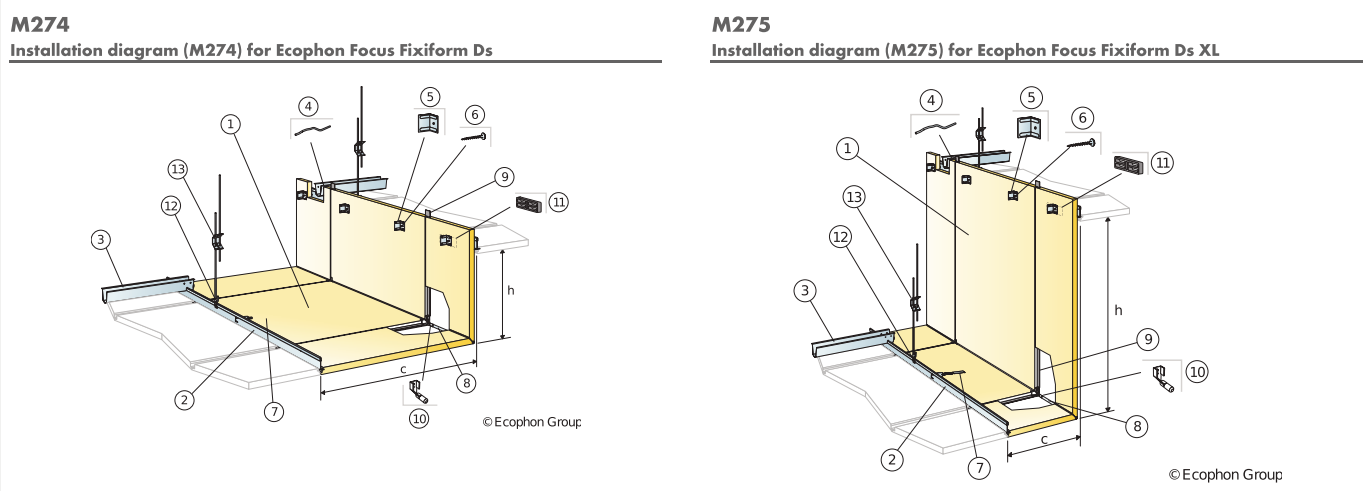
Accessibility: The panels are demountable via adjacent flat ceiling tiles.

Installation: Installed according to installation diagrams, installation guides and drawing aid. Focus Fixiform Ds is supplied with all necessary installation accessories.

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.

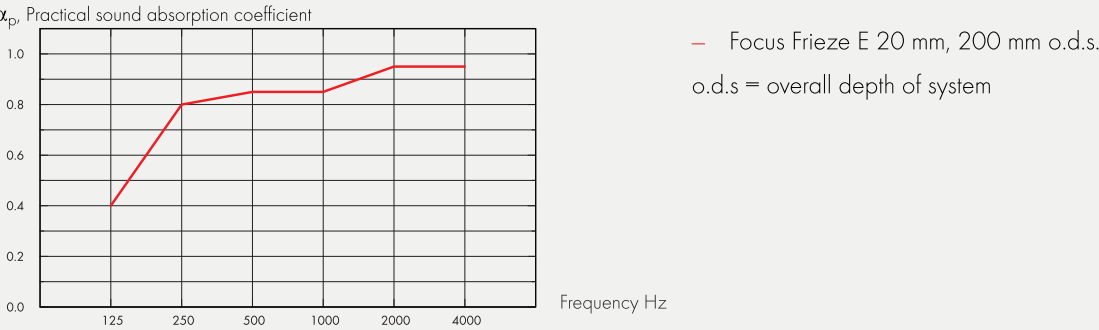
Installation diagram in detail www.ecophon.com



Ecophon Focus™ Frieze

Acoustic:

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



THK mm	o.d.s. mm	α_{pr} Practical sound absorption coefficient						α_w	Sound absorption class
		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz		
20	200	0.40	0.80	0.85	0.85	0.95	0.95	0.90	A

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
20	190	24	25

Indoor Air Quality:

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

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

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

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

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

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

Accessibility: The tiles are not demountable.

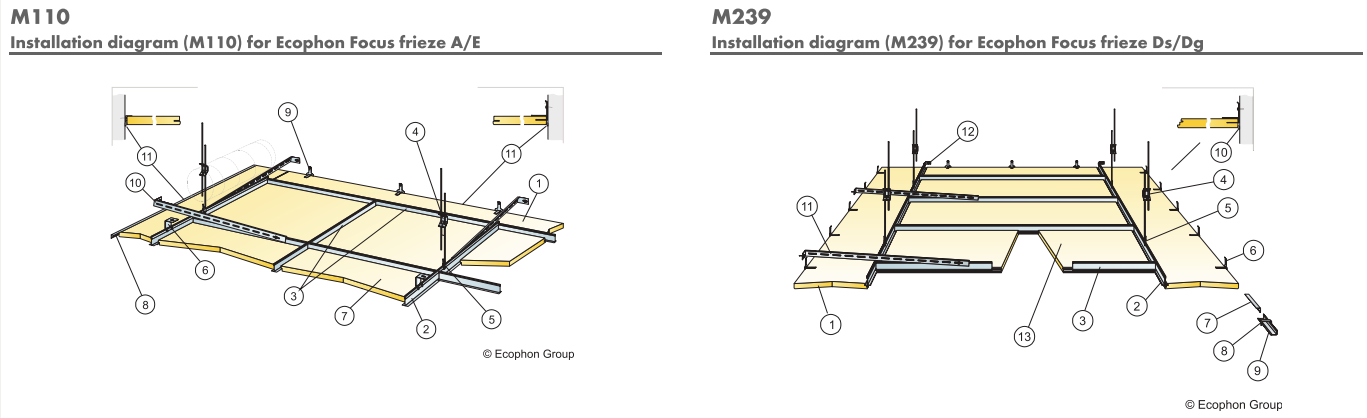
Installation: Installed according to installation diagrams, installation guides and drawing aid. For information regarding minimum overall depth of system see quantity specification.

System weight: The system consists of Ecophon Focus™ frieze tiles and Connect™ grid systems, with an approximate weight of 3 kg/m².

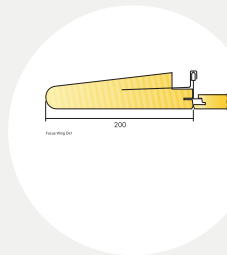
Mechanical properties: See table about Max live load and Min load bearing capacity and Functional demands, Mechanical properties at www.ecophon.com.

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



Ecophon Focus™ Wing



Acoustic: Ecophon Focus Wing is a perimeter component. As such it is absorbent, however, for acoustic data on the system - please see corresponding ceiling system (Focus Ds or Focus/Master E).

Indoor Air Quality:

Certificate / Label	
Eurofins Indoor Air Comfort®	IAC Gold
French VOC	A+

Circularity: Minimum post-consumer recycled content: 61%, Recyclability: Fully recyclable,

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

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

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

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

Accessibility: The tiles are not demountable.

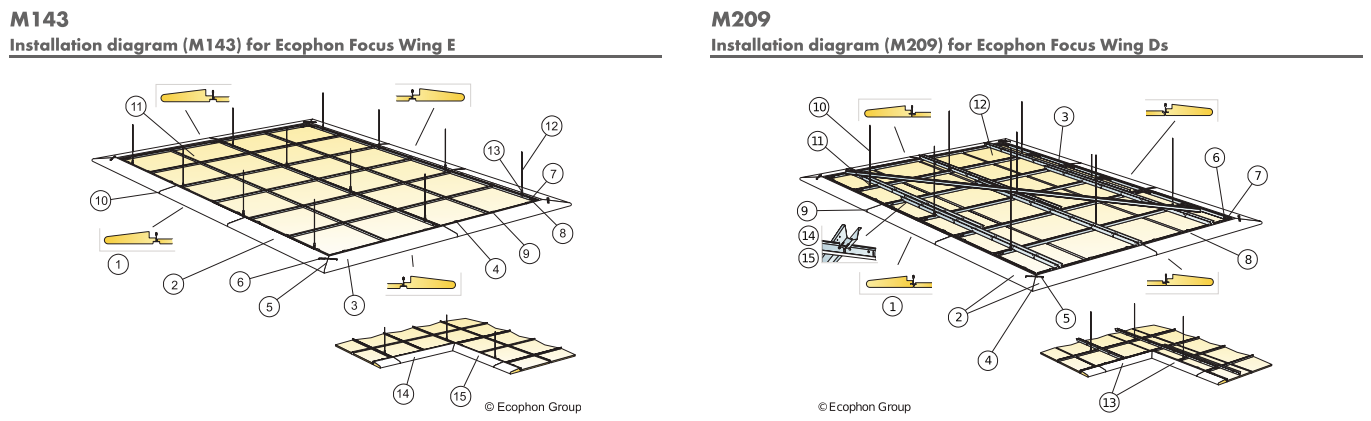
Installation: Installed according to installation diagrams, installation guides and drawing aid. For information regarding minimum overall depth of system see quantity specification.

System weight: The systems consist of Ecophon Focus™ Wing elements and Connect™ grid systems, with an approximate weight of 1 kg/m.

Mechanical properties: No additional live load is allowed.

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





Ecophon Square 43™

Lighting performance:

System effect: 27 W Light source: LED 24,5 W Luminous flux Square Dg, Ds, E: 3281 lm Luminous flux Square Eg, Ez: 2898 lm Light efficiency Square Dg, Ds, E: 121,4 lm/W Light efficiency Square Dg, Ds, E: 108 lm/W Colour temperature: 4000K Color rendering index: Ra ≥80 Colour tolerance: MacAdam ≤3 SDCM Light output ratio (LOR): 100% Light distribution up/down: 0/100 Expected lifespan: L90 >50 000 h Expected lifespan: L70 >100 000 h

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

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

Electrical approvals: IP20, Class 1.

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

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

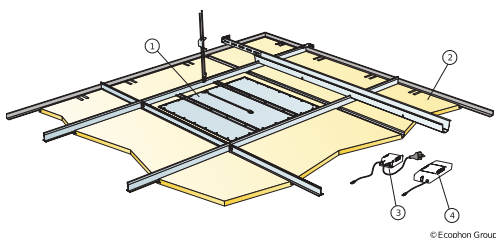
Accessibility: The tiles are easily demountable. Minimum demounting depth according to installation diagrams.

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

Installation diagram in detail www.ecophon.com

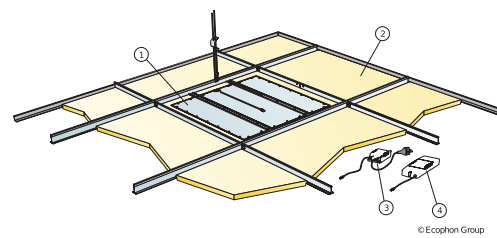
M516

Installation diagram (M516) for Ecophon Dot LED Ds



M518

Installation diagram (M518) for Ecophon Dot LED Dg, E, Eg and Ez



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.

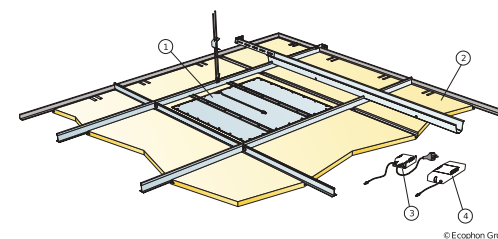
Accessibility: The tiles are easily demountable. Minimum demounting depth according to installation diagrams.

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.

Installation diagram in detail www.ecophon.com

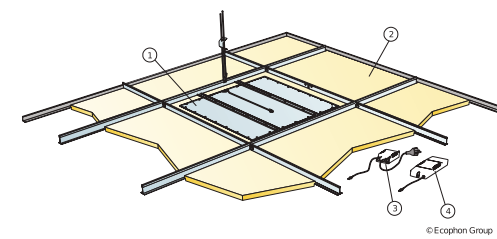
M516

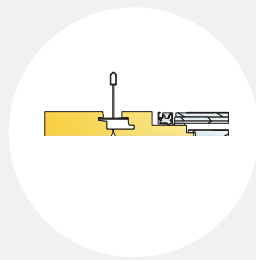
Installation diagram (M516) for Ecophon Dot LED Ds



M518

Installation diagram (M518) for Ecophon Dot LED Dg, E, Eg and Ez





Ecophon Line™

Lighting performance:

System effect: 29,4W Light source: LED 26,7 W Luminous flux: 2337 lm Light efficiency: 87,5 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.

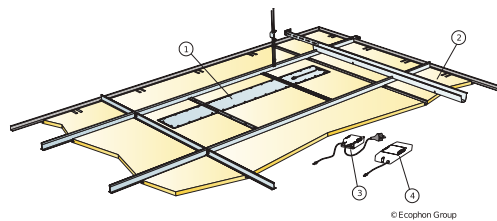
Accessibility: The tiles are easily demountable. Minimum demounting depth according to installation diagrams.

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

Installation diagram in detail www.ecophon.com

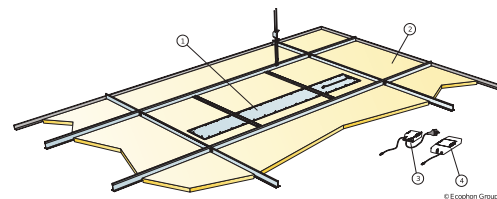
M517

Installation diagram (M517) for Ecophon Line LED Ds



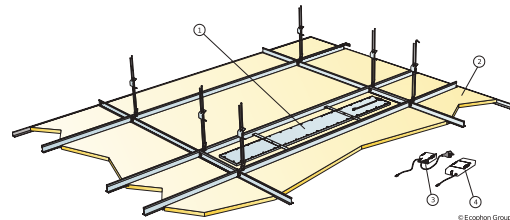
M519

Installation diagram (M519) for Ecophon Line LED Dg and E



M520

Installation diagram (M520) for Ecophon Line LED Lp



The image is showing Ecophon Focus™ Ds

Ecophon is dé toonaangevende leverancier van akoestische oplossingen voor binnenomgevingen die de werkprestaties en de kwaliteit van leven verbeteren. Wij geloven in het verschil dat geluid kan maken in ons dagelijks leven en zijn gepassioneerde voorstanders van de invloed van ruimteakoestiek op het welzijn van mensen – ongeacht de ruimte, activiteit of behoefte.

A Sound Effect on People is het principe dat alles wat we doen, bepaalt. We zijn trots op het Zweedse erfgoed en de menselijke benadering waarop deze belofte is gebaseerd. En als onderdeel van de Saint-Gobain Group dragen we ons steentje bij aan making the world a better home.

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