

ECOPHON

FOCUSTM

BERIBĒS DIZAINO GALIMYBĒS



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Akustika, techninės savybės ir montavimo schemos

Visi šioje brošiūroje esantys paveikslėliai, aprašymai, iliustracijos ir matmenys yra tik informacinio pobūdžio ir nėra sutartiniai. Šioje brošiūroje pristatomi Ecophon produktai, taip pat gali būti trečiųjų šalių produktų. Ecophon neatsako už spausdinimo klaidas. Ecophon pasilieka teisę bet kuriuo metu be išankstinio įspėjimo keisti gaminio specifikacijas. Visada reikia laikytis naudojimo ir montavimo/surinkimo rekomendacijų, taip pat laikymo, priežiūros ir patalpų aplinkos sąlygų. Žiūrėkite taikomą techninę dokumentaciją, pvz., techninių duomenų lapą ir montavimo nurodymus. Norėdami gauti išsamią ir naujausią informaciją, įskaitant paskutinę galiojančių bendrųjų pardavimo sąlygų versiją, apsilankykite www.ecophon.com/lt



GARSO POVEIKIS ŽMONĖMS

Saint-Gobain Ecophon prisideda prie geros darbo, sveikimo ir mokymosi aplinkos kūrimo patalpose. Tai darome kurdami, gamindami ir pristatydami akustinius gaminius ir sistemas, sukurtas atsižvelgiant į natūralią žmogaus klausos evoliuciją. Mes siekiame atkartoti lauke girdimo garso patirtį patalpose, nes tai tiesiog geriau žmonėms.

Didžiuojamės, kad visais įmanomais būdais darome žmonėms gerą poveikį. Dėl to kiekvienas iš mūsų aistringai giname patalpų akustikos svarbą žmonių gerovei – nepriklausomai nuo patalpos, veiklos ar poreikių.

GERA AKUSTIKA

SVARBI VISUR

06 Akustikos svarba vis dar nepakankamai suvokiama. Juk garsas daro didelį poveikį mūsų kasdienybei – dokumentuota daugybė mokslinių faktų, kurie patvirtina, kokia yra svarbi gera akustinė patalpų aplinka.

Tad kokia akustinė patalpų aplinka yra tinkamiausia žmonėms? Viena vertus, ji priklauso nuo to, kaip mes patiriame garsą būdami lauke. Žmogaus klausa natūraliai pritaikyta prie lauko aplinkos, kurioje nėra jokių garso atspindžių nuo lubų ir sienų.

Taigi Ecophon deda dideles pastangas, siekdama patalpose atkurti gamtai būdingas garso ypatybes. Norėdami pagerinti eksploatacines savybes ir naudotojų gerovę, siekiame optimaliai pritaikyti vidaus patalpas, kad jose garsas skambėtų kuo natūraliau mūsų klausai, o kalba ir kiti garsai būtų lengvai girdimi ir suprantami.

Kelionė šio tikslo link paprastai prasideda nuo lubų. Vientisos akustinės lubos – lengviausias būdas erdvėje sumontuoti didelį garsą sugeriantį paviršių ir, dažniausiai, geriausias būdas sumažinti garso stiprumą, sutrumpinti aidėjimo trukmę, pagerinti kalbos aiškumą ir bendrąjį klausymosi komfortą.



LINK

TVARIOS AKUSTIKOS

Tvarumas yra daugiau nei žodis – tai kolektyvinis judėjimas, reikalaujantis sąžiningo įsipareigojimo ir nuoširdaus rūpinimosi, kuriuo siekiama apsaugoti žmones ir planetą. Būtent todėl Ecophon, be kita ko, naudoja kokybiškesnes medžiagas, siekia užtikrinti skaidrumą ir laikosi tvarumo principų.

Mes aktyviai remiame viso mūsų sektoriaus siekį parengti standartizuotas, lengvai prieinamas aplinkosaugines gaminių deklaracijas, skirtas atskiriems produktams, o ne jų grupėms. Į tokias deklaracijas turėtų būti įtraukta informacija, apimanti visą produkto gyvavimo ciklą – nuo žaliavų įsigijimo iki gyvavimo pabaigos, o ne tik palankius etapus. Taip pat turėtų būti atsisakoma ženklelių, suteikiamų remiantis gamintojo deklaracijomis, arba nepriklausomai nepatikrintų teiginių apie tvarumą. Visi pažadai dėl tikslų neišskirti į aplinką anglies dioksido turėtų būti patvirtinti Mokslu pagrįstų tikslų iniciatyvose.

Jei ketiname kurti tvarią ateitį, turime pradėti nuo sąžiningo požiūrio, didelių užmojų ir geriausių ketinimų bei kartu siekti geresnių rezultatų.

ECOPHON FOCUS™

NERIBOTOS DIZAINO GALIMYBĖS

Ecophon Focus™ - tai mūsų universaliausia sistemų grupė, siūlanti platų galimybių spektrą dėl skirtingų briaunų tipų, formų, lygių ir montavimo sprendimų.

- Sugerties klasė A
- 11 skirtingų briaunų tipų ir 6 unikalūs sprendimai
- Aukščiausios kokybės paviršius – itin kokybiškas ir matinės išvaizdos

Focus yra puikus pasirinkimas kabinetams, koridoriams, registratūroms, įėjimo salėms, laukimo zonoms, komandiniam darbui skirtoms erdvėms ir kitoms viešosioms patalpoms, kur svarbūs tiek estetiniai sprendimai, tiek garso kokybė.

Focus grupėje yra plokščių, kurias galima tvirtinti tiesiai prie perdangos. Tai suteikia galimybių pagerinti akustiką net ir sudėtingose ar iš pirmo žvilgsnio neįmanomose erdvėse, tokiose kaip laiptinės, rūšiai ar patalpos su žemomis lubomis.

Ne mažiau kaip

51%

PERDIRBTŲ MEDŽIAGŲ
PRODUKTUOSE



ECOPHON FOCUS™ PRODUKTŲ ASORTIMENTAS

Focus tai pakabinamos lubos nuo sienos iki sienos, pasižyminčios puikiomis akustinėmis savybėmis, patraukliu dizainu ir lankstumu, todėl Focus sistema yra ideali priemonė kiekvienam poreikiui tenkinti.

Focus grupei priklauso šeši unikalūs papildomi sprendimai, skirti lygio pokyčiams, sienų užbaigimams ir laisvai kabamoms luboms. Jie sukurti taip, kad lubos atrodytų vientisos ir sustiprintų bendrą estetiško vaizdo patrauklumą.

Focus Levels suteikia dar daugiau dizaino galimybių. Naudodami Levels galite derinti įvairaus storio ir dydžio plokštes, kad lubos ar sienos įgytų unikalų, sluoksniuotą ir dinamišką vaizdą bei pojūtį.

Mažesnis

CO₂

IŠSKIRTINĖS ŽALIAVOS IR
PLAČIAI NAUNAUDOJAMA
ATSINAUJINANČIOJI ENERGIJA

FOCUS A

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

FOCUS B

600x600x20
1200x600x20

FOCUS Ds

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

FOCUS Dg

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

FOCUS Dt

600x600x20

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

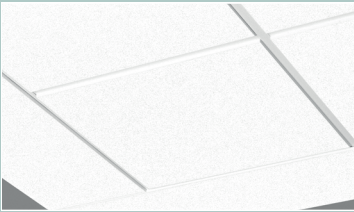
FOCUS FIXIFORM E

1200x600x20



FOCUS FRIEZE

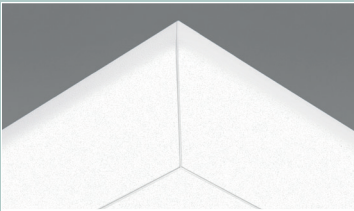
2400x600x20



FOCUS WING

600x200x50

1200x200x50



DOT

Edge Ds, Dg, E:

600x600x20

Edge Ez:

600x600x40



FOCUS FIXIFORM DS

1200x600x20

1500x600x20

1900x600x20

2300x600x20



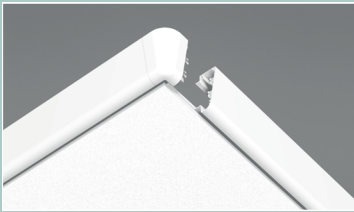
FOCUS EDGE 500

600x600x20

1200x600x20

1200x1200x20

1200x1200x25



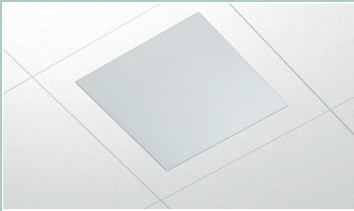
SQUARE 43

Edge Ds, Dg, E:

600x600x20

Edge Ez:

600x600x40



LINE

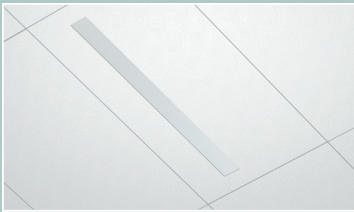
Edge Lp:

1200x150x20

1200x300x20

Edge Ds, Dg, E:

1200x600x20





FOCUS A
Matoma konstrukcija ir lengvai išmontuojamos plokštės. Galima įsigyti įvairių dydžių.

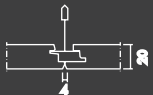


FOCUS B
Tiesioginiam tvirtinimui klijuais, idealiai tinkama montavimui, kai reikalingas minimalus sistemos gylis.

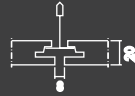




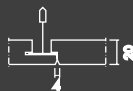
FOCUS Ds
Istrižinė briauna, sukuria subtilų tarpą tarp plokščių. Paslėpta konstrukcija.



FOCUS Dg
Unikalus briaunų dizainas su paslėptais atraminiais kraštais ir „plaukiojančiu“ efektu.

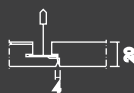


FOCUS D/A
Skirta koridoriams ir linijinėms juostinėms sistemoms. Ilgos plokštės su paslėpta karkaso sistema.

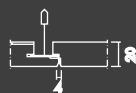




FOCUS Dt
Aliuminio profilis tarp kiekvienos plokštės, sukuriantis išraiškingą ir elegantišką dizainą.

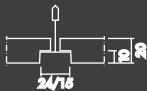


FOCUS Dt
Aliuminio profilis tarp kiekvienos plokštės, suteikiantis dizainui išraiškingumo ir elegancijos.





FOCUS E
Įleidžiama matoma konstrukcija, sukuriantis šešėlio efektą. Lengvai išmontuojamos plokštės.



FOCUS Ez
Su skirtingo lygio briaunomis, leidžiančiomis sukurti pasvirusį vaizdą ir unikalius dizainus.





FOCUS F

Tiesioginiam tvirtinimui varžtais, ypač tinkama montavimui, kai reikalingas minimalus sistemos gylis.



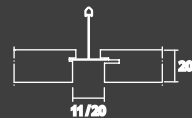
FOCUS SQ

Tiesioginiam tvirtinimui klėjais. Montuojama paliekant tarpą tarp kiekvienos plokštės.



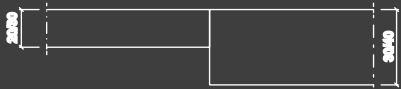
FOCUS Lp

Patentuota sistema, skirta ilgiems lubų segmentams kurti, pabrėžiant erdvės kryptį.

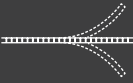




FOCUS LEVELS
Skirtingi plokščių storai sistemoje leidžia kurti unikalius raštus sienoms ir luboms.



FOCUS FLEXIFORM A
Lanksčios plokštės, kurias galima formuoti įgaubtomis arba išgaubtomis formomis.



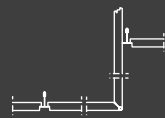
FOCUS EDGE 500
Kraštų profilis salos tipo montavimui. Profilis iš presuoto aliuminio, kampai – iš lieto cinko.





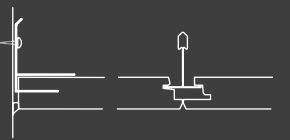
FOCUS FIXIFORM E

Sulenkiamos plokštės sklandiems perėjimams ten, kur lubose yra aukščio skirtumų.



FOCUS FRIEZE

Užbaigimo plokštės, skirtos tolygiam perėjimui nuo lubų prie sienos.



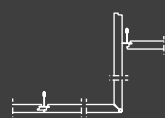
28

29



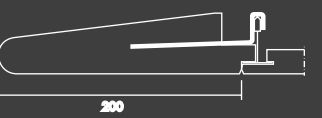
FOCUS FIXIFORM Ds

Lankstomos plokštės, skirtos sklandiems perėjimams ten, kur lubose keičiasi aukščio lygiai.



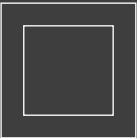
FOCUS WING

Sparno formos elementai atskiroms kabamosioms luboms





SQUARE 43
Puikus apšvietimo komfortas ir žema UGR vertė.



DOT
Aukštas apšvietimo komfortas ir žema UGR reikšmė.



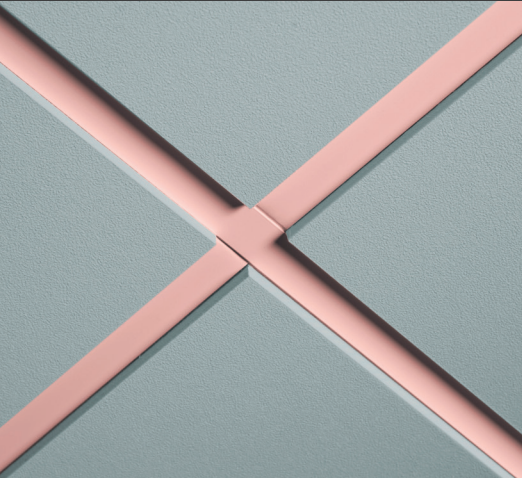
LINE
Šviestuvai užtikrina puikų apšvietimo komfortą ir pabrėžia lubų kryptį.



SPALVOTA KONSTRUKCIJA - KURKITE SAVO UNIKALŲ DIZAINĄ

Akustinės lubos dažnai yra didžiausias vientisas paviršius patalpoje. Jos daro įtaką ne tik bendram interjero vaizdui ir atmosferai, bet ir galutinių naudotojų gerovei.

- Connect konstrukcija galima visomis Akutex FT spalvomis.
- Galite derinti plokščių spalvas su konstrukcija arba maišyti skirtingas spalvas, kad sukurtumėte dinamiškesnį ir žaismingesnį dizainą.



SPALVOS IR PAVIRŠIAUS DANGOS

AKUTEX™ FT

Ženklas Akutex rodo, kad gaminiui buvo taikyta aukščiausios kokybės paviršiaus apdorojimo technologija. Vykdydami mokslinius tyrimus ir plėtros darbus, mes visada sutelkiame dėmesį į gaminių vizualines ir akustines savybes, darbo aplinką, architektūrines tendencijas ir aplinkosaugos aspektus. Taip užtikriname, kad Akutex ženklu būtų žymimi pažangiausi gaminiai.



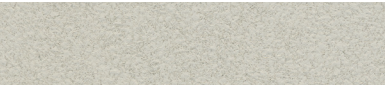
WHITE FROST
Artimiausia NCS spalva S 0500-N.
Šviesos atspindėjimas 85%.



OCEAN STORM
Artimiausia NCS spalva S 4020-R90B.
Šviesos atspindėjimas 24%.



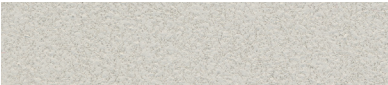
MORNING DRIZZLE
Artimiausia NCS spalva S 1002-B.
Šviesos atspindėjimas 69%.



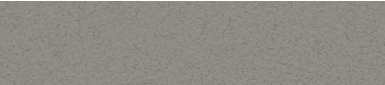
VOLCANIC ASH
Artimiausia NCS spalva 2002-Y.
Šviesos atspindėjimas 56%.



MOONLIGHT SKY
Artimiausia NCS spalva S 7020-R90B.
Šviesos atspindėjimas 7%.



CLOUDY DAY
Artimiausia NCS spalva S 1500-N.
Šviesos atspindėjimas 62%.



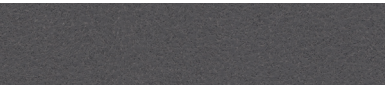
SILVER STONE
Artimiausia NCS spalva S 4502-Y.
Šviesos atspindėjimas 29%.



GOLDEN FIELD
Artimiausia NCS spalva S 1040-G90Y.
Šviesos atspindėjimas 61%.



PEACH ROSE
Artimiausia NCS spalva S 1515-Y80R.
Šviesos atspindėjimas 55%.



SILK SLATE
Artimiausia NCS spalva S 7000-N.
Šviesos atspindėjimas 13%.



SUNSET HEAT
Artimiausia NCS spalva S 2070-Y60R.
Šviesos atspindėjimas 20%.



HIGHLAND FOG
Artimiausia NCS spalva S 2005-G.
Šviesos atspindėjimas 55%.



GOJI BERRY
Artimiausia NCS spalva S 3030-Y80R.
Šviesos atspindėjimas 27%.



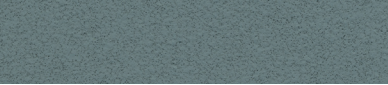
RUBY ROCK
Artimiausia NCS spalva S 4050-R10B.
Šviesos atspindėjimas 7%.



SAGE GARDEN
Artimiausia NCS spalva S 3010-B30G.
Šviesos atspindėjimas 40%.



SILENT STEAM
Artimiausia NCS spalva S 2010-B.
Šviesos atspindėjimas 45%.



EUCALYPTUS LEAF
Artimiausia NCS spalva S 5010-B30G.
Šviesos atspindėjimas 23%.



FRESH CLOVER
Artimiausia NCS spalva S 3020-G40Y.
Šviesos atspindėjimas 35%.



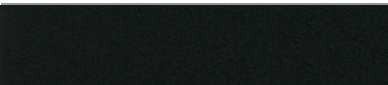
SCALLOP SHELLS
Artimiausia NCS spalva S 0804-Y50R.
Šviesos atspindėjimas 76%.



SUMMER FOREST
Artimiausia NCS spalva S 6030-G10Y.
Šviesos atspindėjimas 10%.

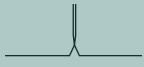
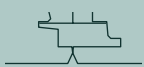
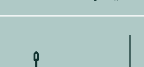


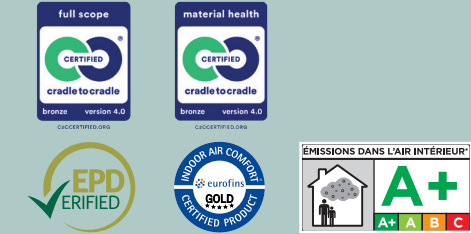
WET SAND
Artimiausia NCS spalva S 3020-Y30R.
Šviesos atspindėjimas 35%.



DARK DIAMOND
Artimiausia NCS spalva S 9000-N.
Šviesos atspindėjimas 4%.

PASTABA
Skirtingų partijų gaminių spalvos gali šiek tiek skirtis.
Spalvos paveikslėlyje gali šiek tiek skirtis nuo realybės.

BRIAUNA	PRODUKTAS	GARSO SUGERTIES KLASĖ	KONSTRUKCIJA	DYDIS (MM)	ECOPHON APŠVIETIMAS	GALIMI DERINIAI
	Ecophon Focus A	A	T15/ T24	600x600x20, 1200x600x20, 1200x1200x20, 1600x600x20, 1800x600x20, 2000x600x20, 2400x600x20		Ecophon Focus Flexiform A Ecophon Focus Frieze
	Ecophon Focus B	C	Tiesioginis tvirtinimas	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	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	Tiesioginis tvirtinimas	600x600x20, 1200x600x20		
	Ecophon Focus Lp	A	T24	600x150x20, 600x300x20, 600x600x20 1200x150x20, 1200x300x20, 1200x600x20 1800x600x20	Ecophon Line	
	Ecophon Focus SQ	C	Tiesioginis tvirtinimas	600x600x20, 1200x600x20		
	Ecophon Focus Levels	iki A	Tiesioginis tvirtinimas prie lubų ir sienų	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 prisideda prie sveikos vidaus aplinkos kūrimo – pasižymi puikiais garso sugerties savybėmis, labai žemomis LOJ (lakiųjų organinių junginių) emisijomis, atitinkančiomis griežčiausius reikalavimus, bei visišku cheminių medžiagų skaidrumu, patvirtintu Cradle to Cradle medžiagų sveikatos sertifikatu. Mažą Focus“ plokščių anglies dioksido pėdsaką patvirtina trečiosios šalies išduotos Aplinkosaugos produkto deklaracijos (EPD).



Ecophon jau dabar pasižymi vienomis žemiausių emisijų verčių rinkoje, o dabar pasiekė dar žemesnį lygį visoms savo lubų sistemoms.

Dėl inovacijų, mažo anglies dioksido pėdsako plieno bei biodujų naudojimo gamyboje, galime dar labiau sumažinti savo anglies dioksido pėdsaką pasirinktoms sistemoms – tiek plokštėms, tiek konstrukcijoms. Daugiau apie CarbonLow skaitykite ecophon.com/lt/

Produktai neprisideda prie gaisro plitimo, o Focus plokščių stiklo vatos sluoksnis buvo išbandytas pagal EN ISO 1182 standartą ir klasifikuojamas kaip nedegus. Gaisro klasifikacija atliekama pagal EN 13501-1, daugiau informacijos rasite atitinkamų produktų techninėse savybėse.

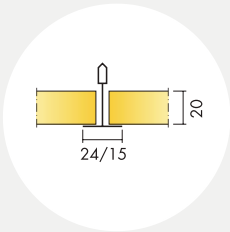
PASTABA
Daugiau informacijos apie produktus ir sistemas, įskaitant montavimo schemas bei tvarumo dokumentaciją, rasite www.ecophon.com/lt/ svetainėje.

SISTEMOS

SAVYBĖS

AKUSTIKA, TECHNINĖS SAVYBĖS IR MONTAVIMO SCHEMAS

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

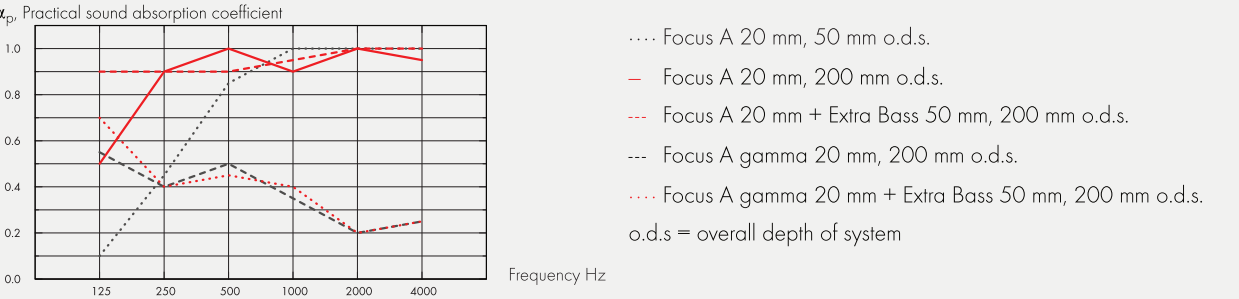


Ecophon Focus™ A

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.



	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.

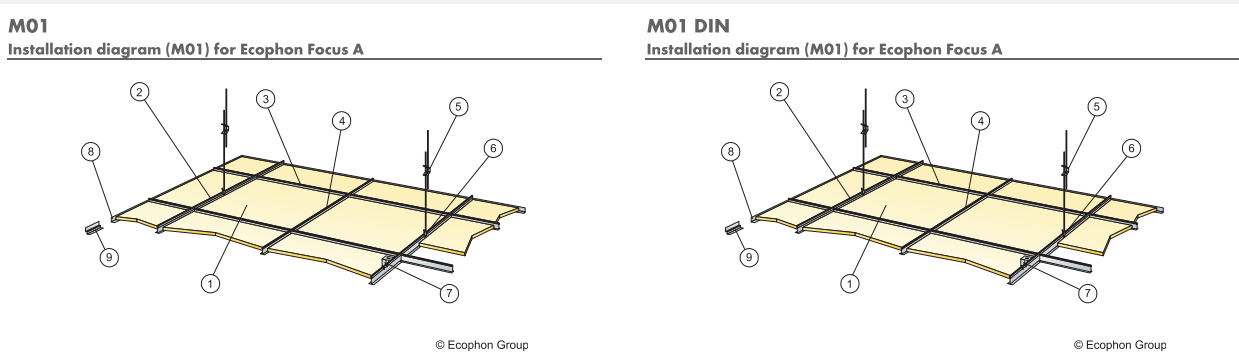
Installation: Installed according to installation diagrams, installation guides and drawing aid. For information regarding minimum overall depth of system see quantity specification.

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

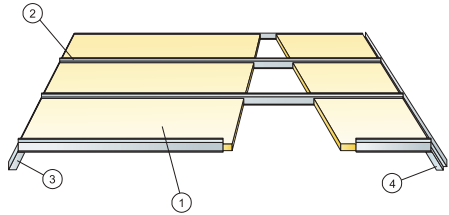
Mechanical properties: See table about Max live load and Min load bearing capacity and Functional demands, Mechanical properties at www.ecophon.com.

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

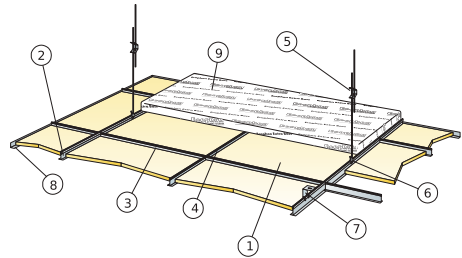


M16
Installation diagram (M16) for Ecophon Focus A XL in corridors



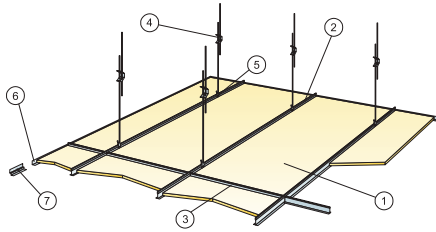
© Ecophon Group

M399
Installation diagram (M399) for Ecophon Focus A



© Ecophon Group

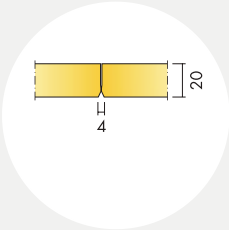
M46
Installation diagram (M46) for Ecophon Focus A XL



© Ecophon Group

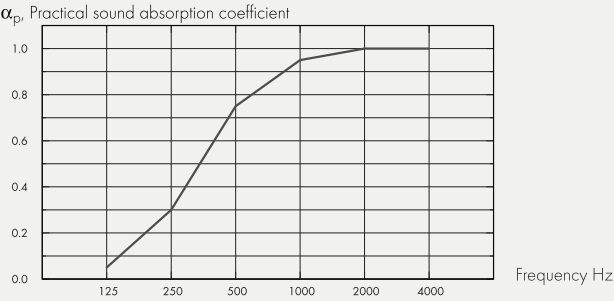


Ecophon Focus™ B



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.



— Focus B 20 mm, 23 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	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.

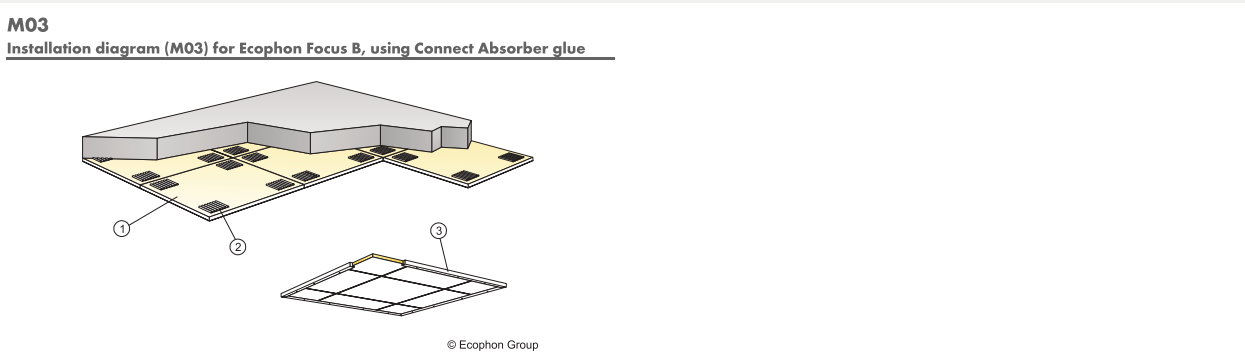
Installation: Installed according to installation diagrams, installation guides and drawing aid. For information regarding minimum overall depth of system see quantity specification. Rendered surfaces must have sufficient strength to be able to carry the load imposed by the tiles. If doubts, test gluing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

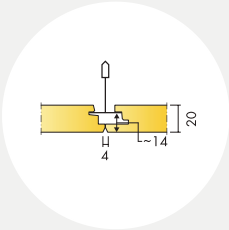
Mechanical properties: Additional live load has to be fixed to the soffit.

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

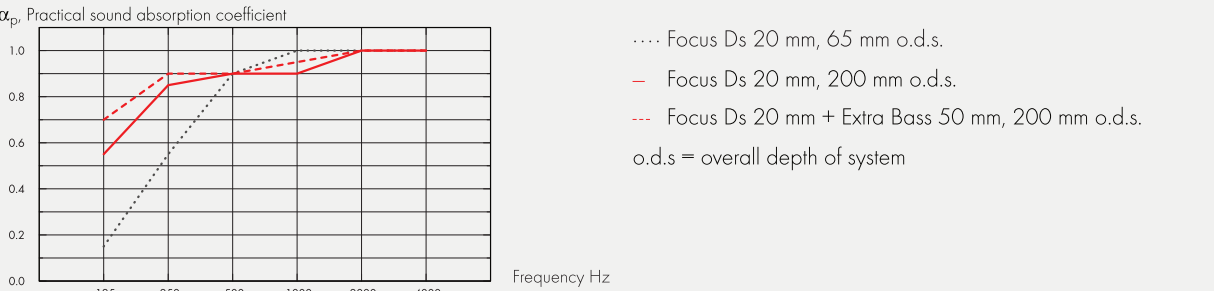


Ecophon Focus™ Ds



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)	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	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.

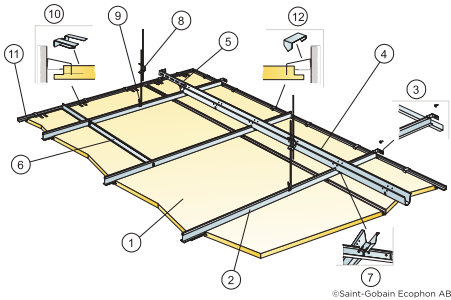
System weight: The weight of the system (including suspension grid) should be approximately 3kg/m² and 4,5kg/m² with Extra Bass

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

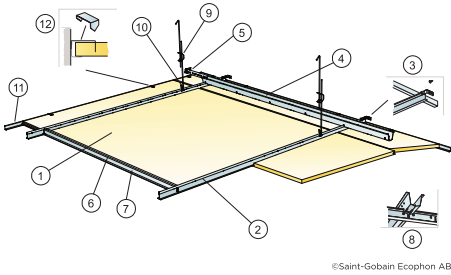
CE: Ecophon ceiling systems are CE marked according to the European harmonized standard EN13964:2014. CE marked construction products are covered by a Declaration of Performance (DOP) which enables customers and users to easily compare performance of products available on the European market.

Installation diagram in detail www.ecophon.com

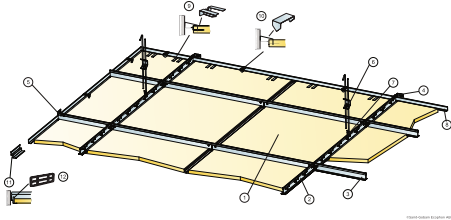
M581
Installation diagram (M581) for Ecophon Focus Ds 600x600, 1200x600 mm and Ecophon Focus Ds XL. Suspended installation



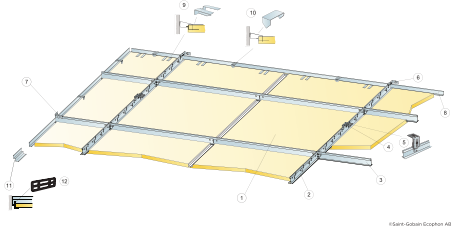
M582
Installation diagram (M582) for Ecophon Focus Ds 1200x1200 mm. Suspended installation



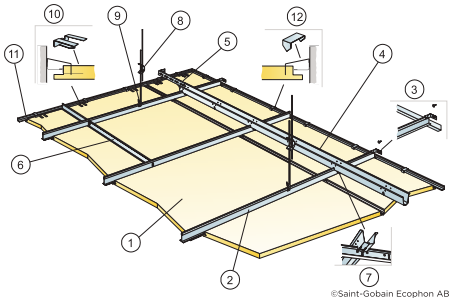
M583DIN
Installation diagram (M583DIN) for Ecophon Focus Ds 625x625, 1250x625 mm. Suspended installation



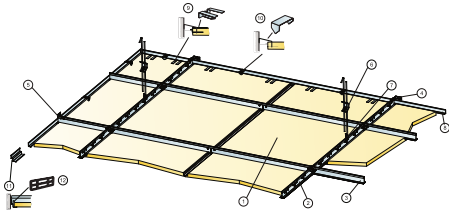
M584DIN
Installation diagram (M584DIN) for Ecophon Focus Ds 625x625, 1250x625 mm. Direct installation



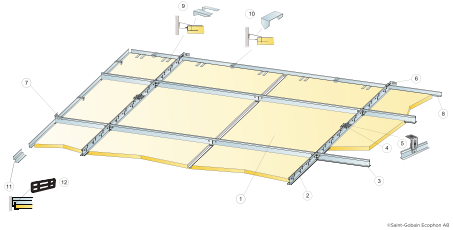
M581DIN
Installation diagram (M581DIN) for Ecophon Focus Ds 625x625, 1250x625 mm. Suspended installation



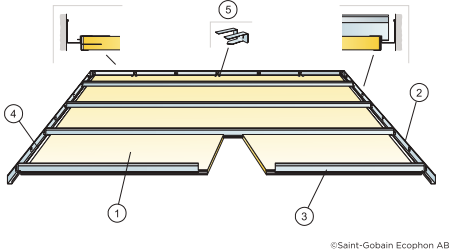
M583
Installation diagram (M583) for Ecophon Focus Ds 600x600, 1200x600 mm. Suspended installation



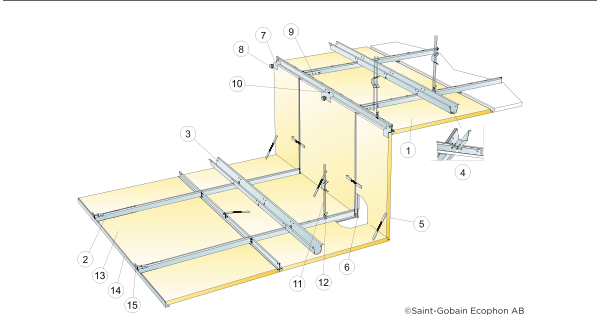
M584
Installation diagram (M584) for Ecophon Focus Ds 600x600, 1200x600 mm. Direct installation



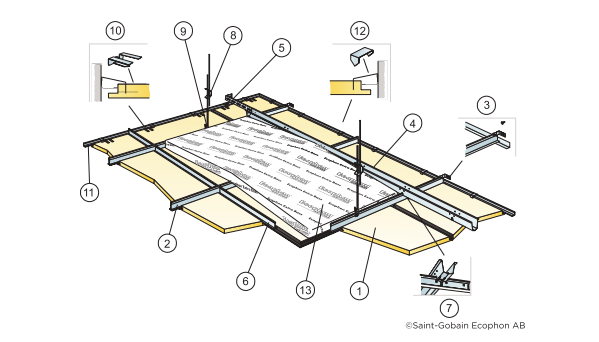
M238
Installation diagram (M238) for Ecophon Focus Ds XL in corridors

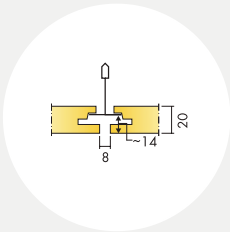


M613
Installation diagram (M613) for Ecophon Focus Ds Level change. Suspended installation



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



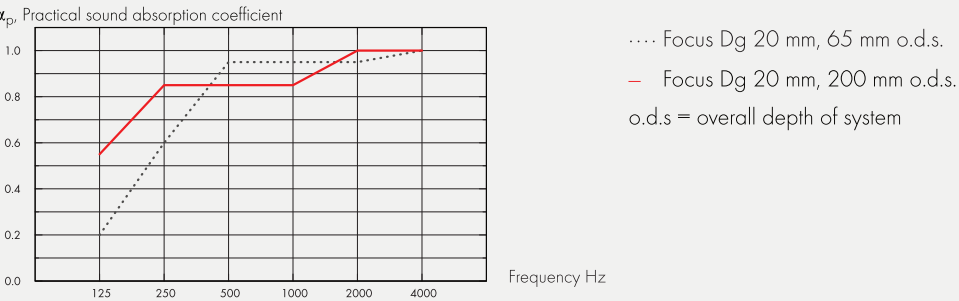


Ecophon Focus™ Dg

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.



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)	
20	Articulation Class, ASTM E1111, ASTM E1110	

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

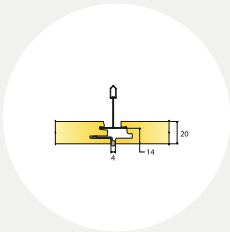
Installation diagram (M202) for Ecophon Focus Dg 600x600, 1200x600 mm

M203

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

M204

Installation diagram (M204) for Ecophon Focus Dg XL

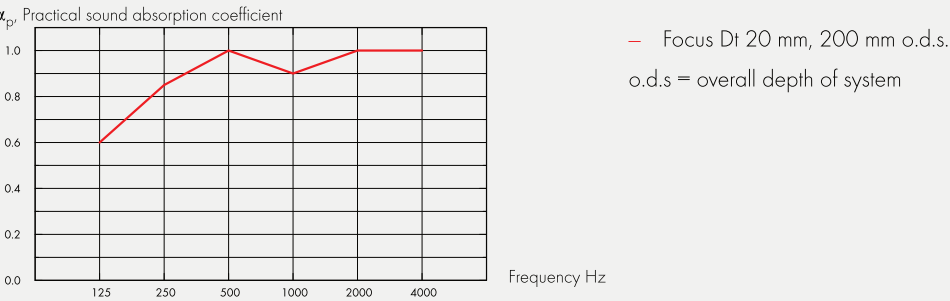


Ecophon Focus™ Dt

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 easliy 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,

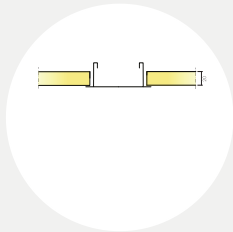
Mechanical properties: See table about Max live load and Min load bearing capacity and Functional demands, Mechanical properties at www.ecophon.com.

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

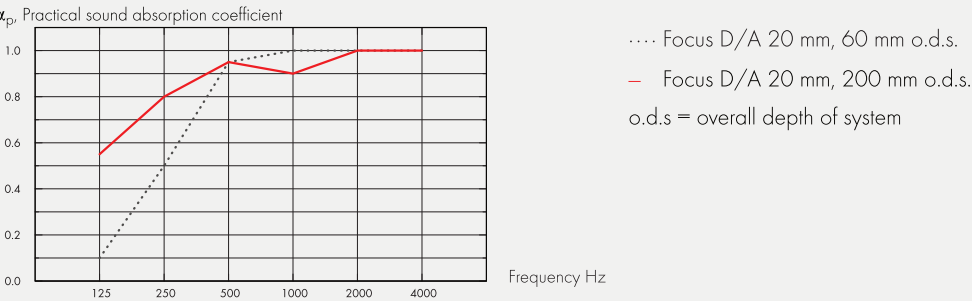
M674
Installation diagram (M674) for Ecophon Focus Dt 600x600. Suspended installation



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.



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.

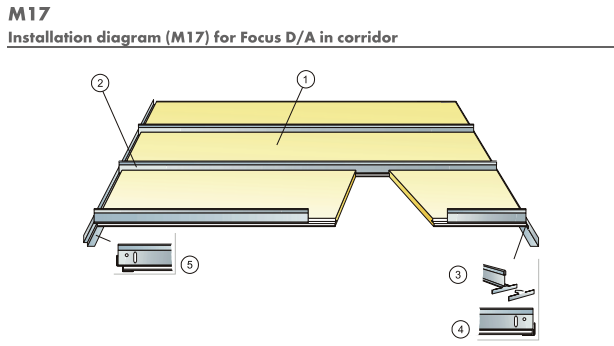
Installation: Installed according to installation diagram and bandraster/grid supplier recommendations.

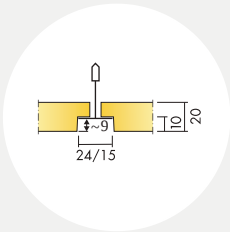
System weight: The weight of the system (including suspension grid) should be approximately 2 kg/m².

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

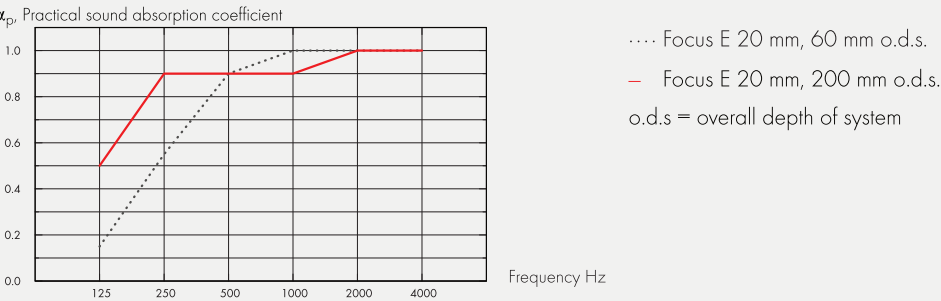




Ecophon Focus™ E

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.



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.

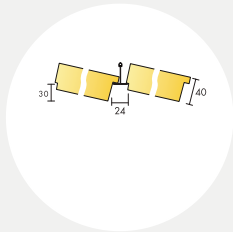
Installation diagram in detail www.ecophon.com

M12
Installation diagram (M12) for Ecophon Focus E

M12 DIN
Installation diagram (M12) for Ecophon Focus E

M47
Installation diagram (M47) for Ecophon Focus E XL

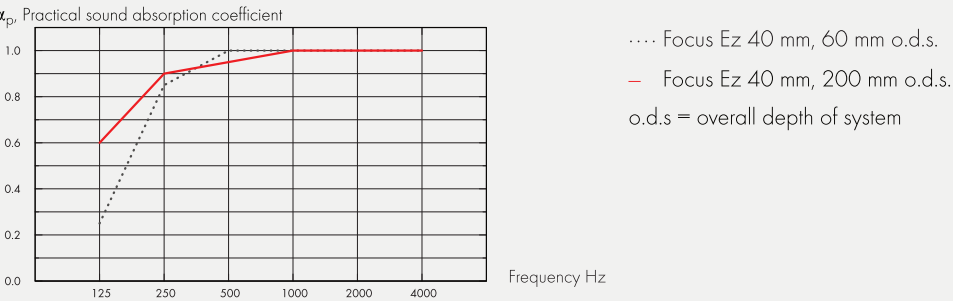
M49
Installation diagram (M49) for Ecophon Focus E XL in corridors



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.



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.

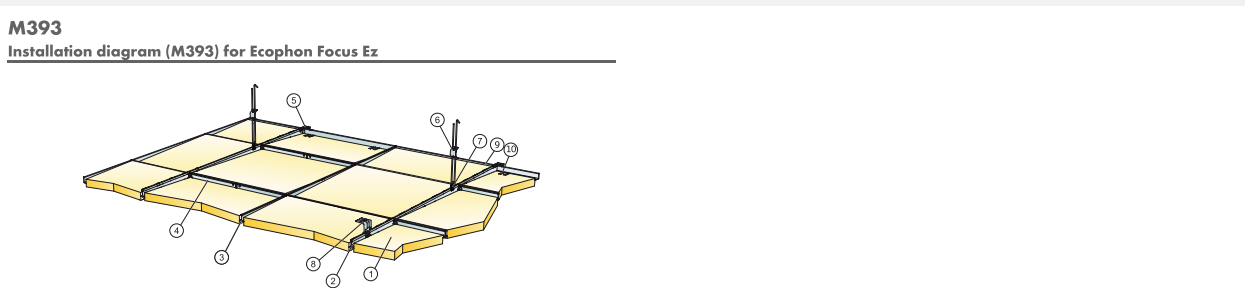
Installation: Installed according to installation diagrams, installation guides and drawing aid. For information regarding minimum overall depth of system see quantity specification.

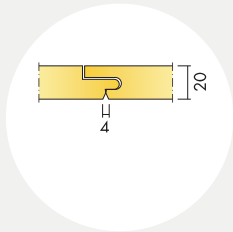
System weight: The weight of the system (including suspension grid) should be approximately 5 kg/m²

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

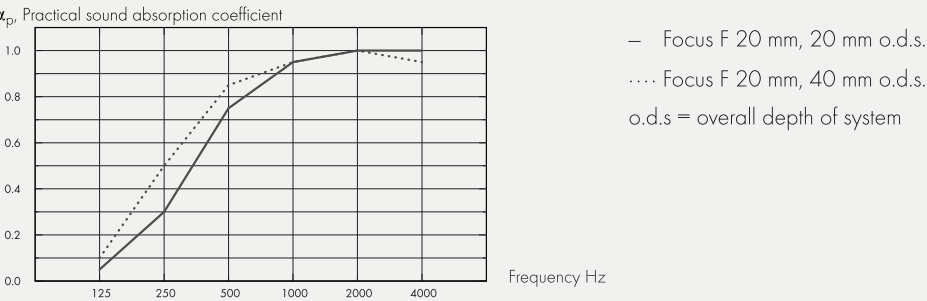




Ecophon Focus™ F

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.



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.

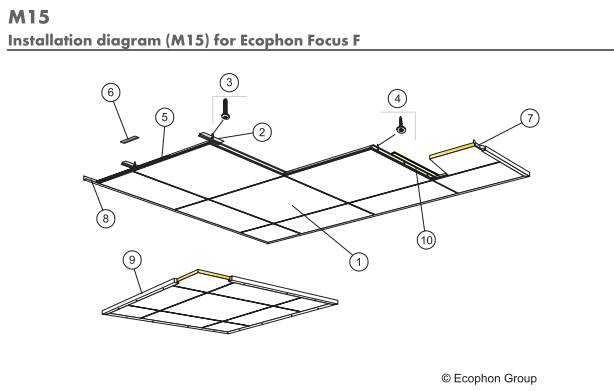
Installation: Installed according to installation diagrams, installation guides and drawing aid. For information regarding minimum overall depth of system see quantity specification. For best result the surface should be even, however an acceptable result could be achieved on slightly uneven surfaces.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

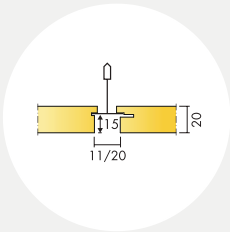
System weight: The weight of the system should be approximately 2,5 kg/m²

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

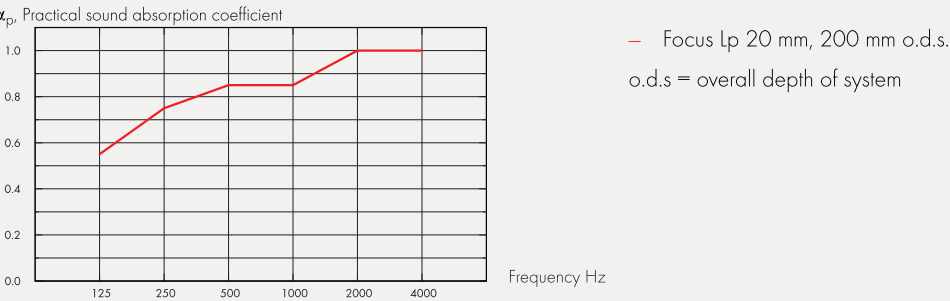




Ecophon Focus™ Lp

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)	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	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.

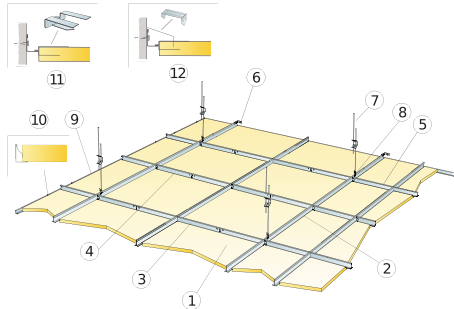
Indoor Air Quality:

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

Installation diagram in detail www.ecophon.com

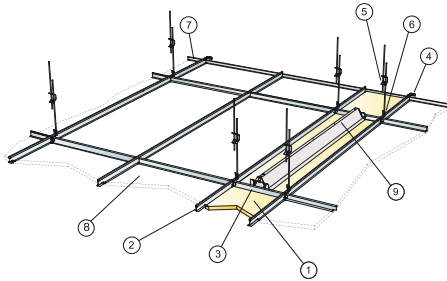
M390

Installation diagram (M278) for Ecophon Focus Lp



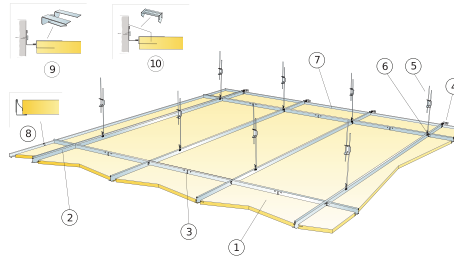
M391

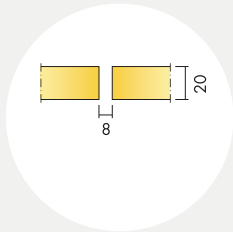
Installation diagram (M279) for Ecophon Focus Lp Technical tile



M392

Installation diagram (M278) for Ecophon Focus Lp XL

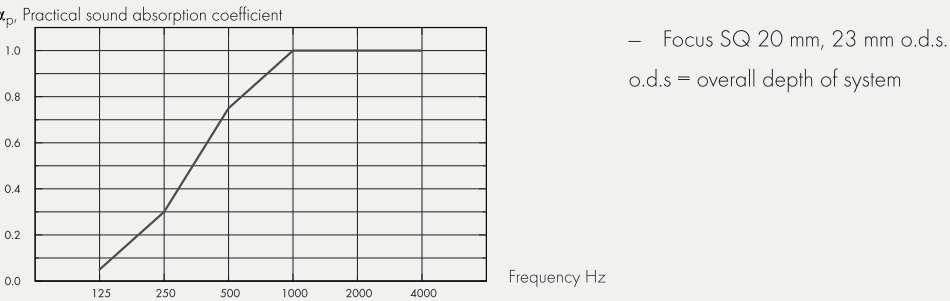




Ecophon Focus™ SQ

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.

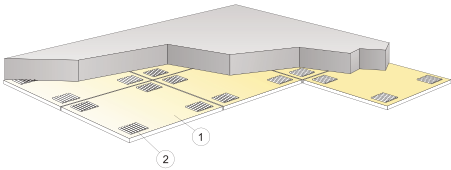
System weight: The weight of the system should be approximately 2,5 kg/m²

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

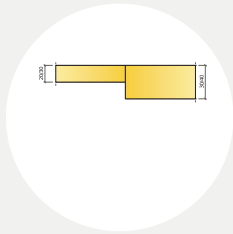
CE: Ecophon ceiling systems are CE marked according to the European harmonized standard EN13964:2014. CE marked construction products are covered by a Declaration of Performance (DOP) which enables customers and users to easily compare performance of products available on the European market.

Installation diagram in detail www.ecophon.com

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



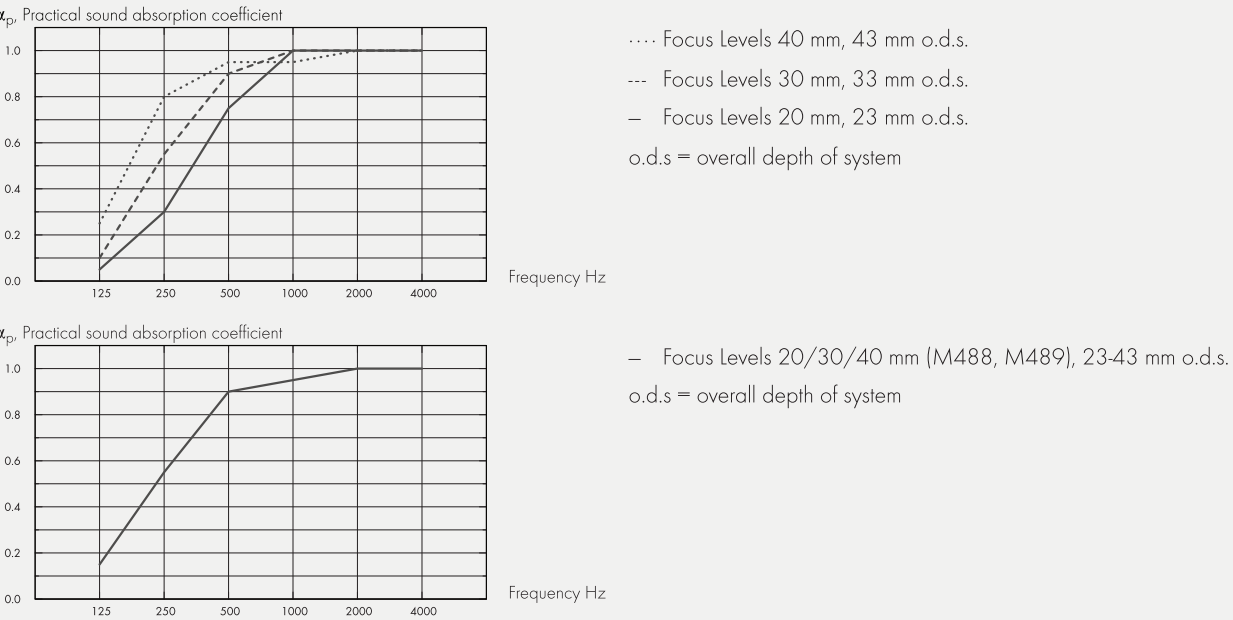
© Ecophon Group



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.

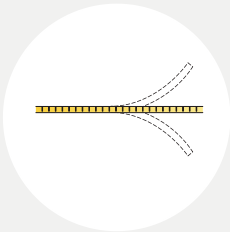
Mechanical properties: Additional live load has to be fixed to the soffit.

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

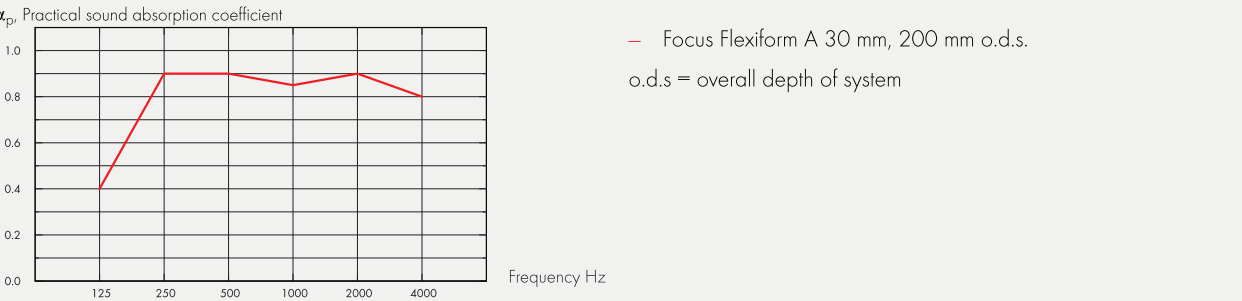
M489
Installation diagram (M489) for Ecophon Focus Levels, using Connect Absorber glue



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} Weighted normalized flanking level difference, ISO 10848-2	CAC dB 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.

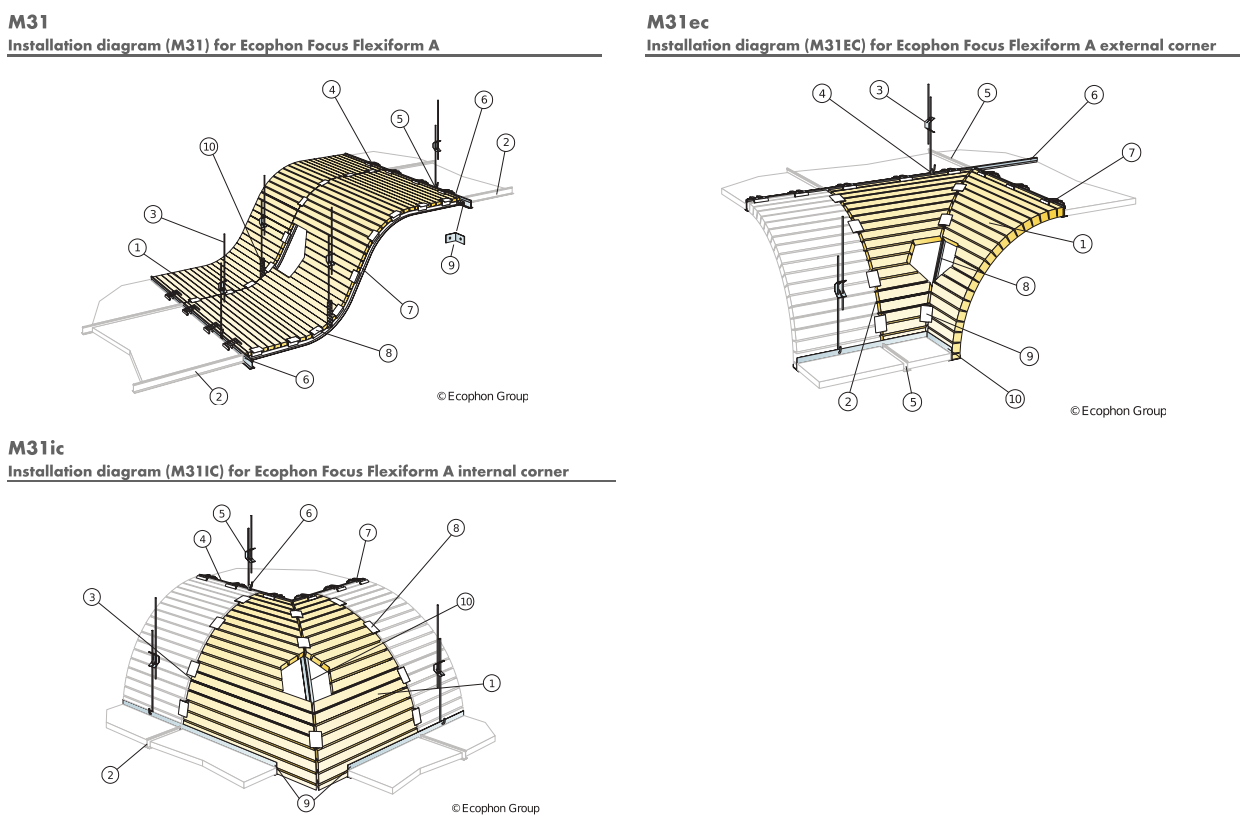
Installation: Installed according to installation diagrams, installation guides and drawing aid. (Please note: Extreme incident light, near windows or other light sources, can create undesired shadow effects on the structured surface on curved installations.)

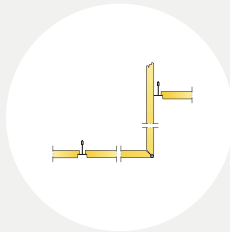
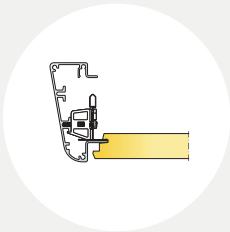
System weight: The weight is approximately 3 kg/m², depending on the installation method.

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





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

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

© Ecophon Group

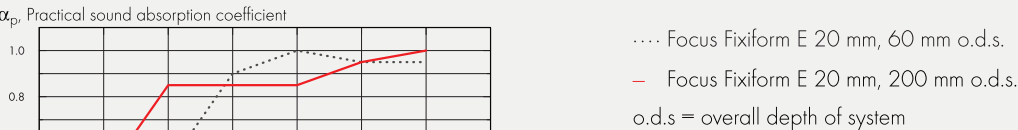
M211
Installation diagram (M211) for Ecophon Edge 500 with Focus Dg

© Ecophon Group

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_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	0.50	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.

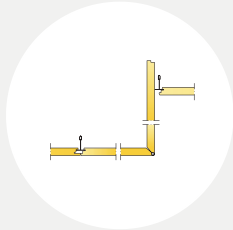
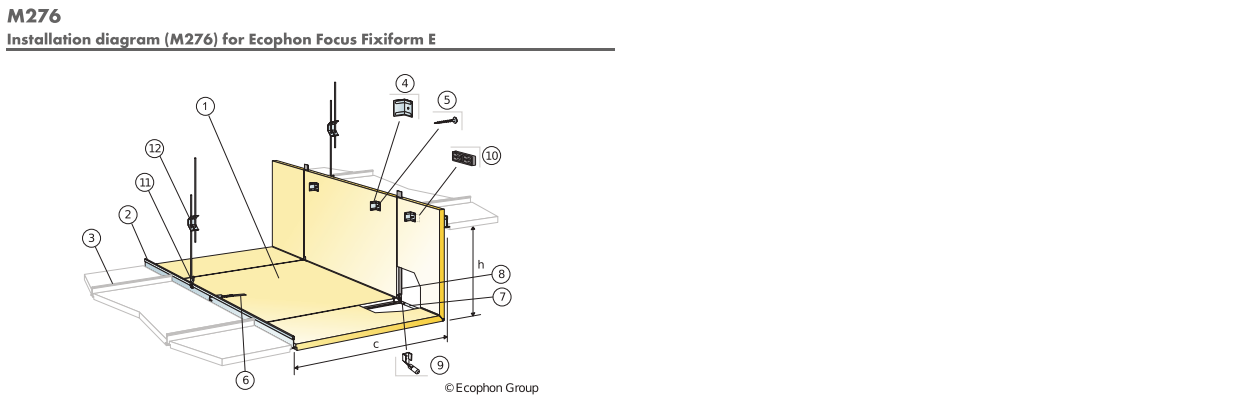
Accessibility: The panels are demountable via adjacent flat ceiling tiles.

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.

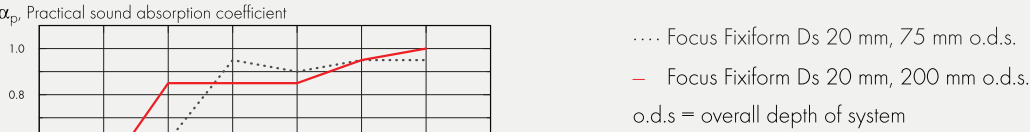
Installation diagram in detail www.ecophon.com



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.

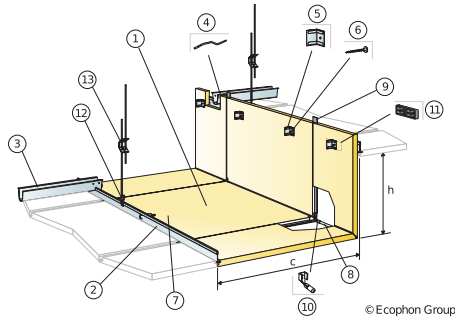
Mechanical properties: Additional live load has to be fixed to the soffit.

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

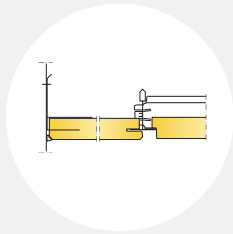
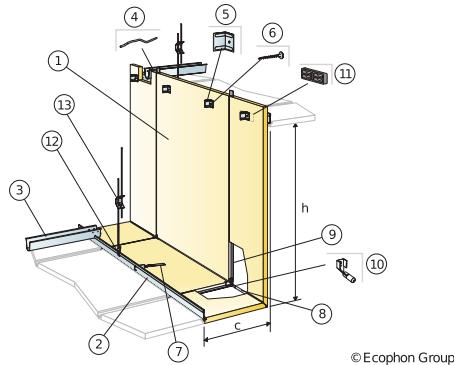
M274

Installation diagram (M274) for Ecophon Focus Fixiform Ds



M275

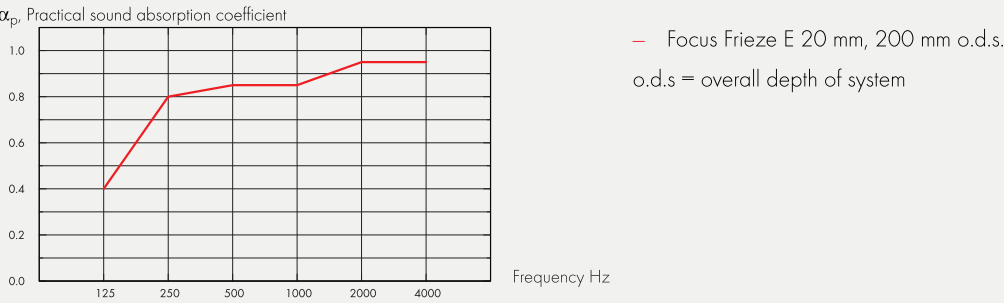
Installation diagram (M275) for Ecophon Focus Fixiform Ds XL



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_p , Practical sound absorption coefficient						α_w	Sound absorption class
		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz		
20	200	0.40	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.

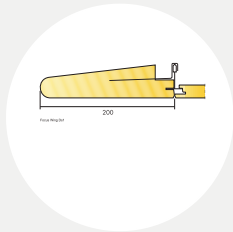
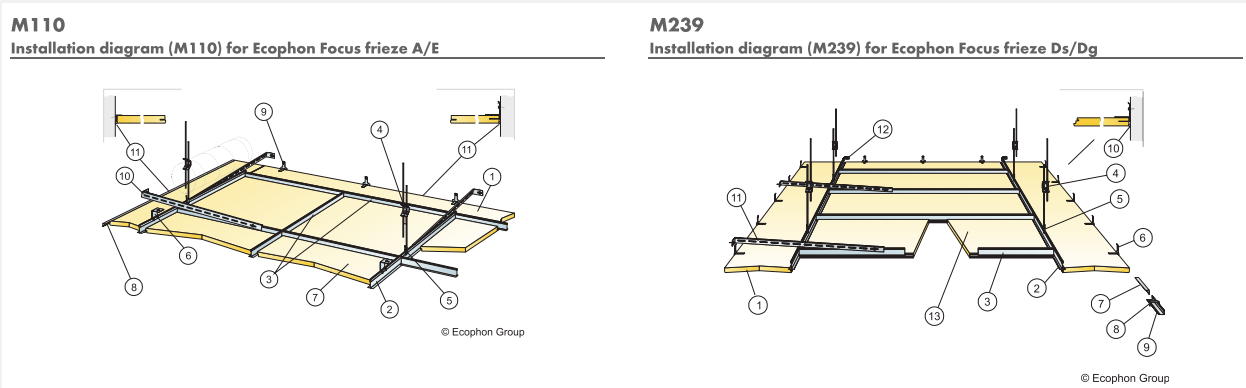
Installation: Installed according to installation diagrams, installation guides and drawing aid. For information regarding minimum overall depth of system see quantity specification.

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.

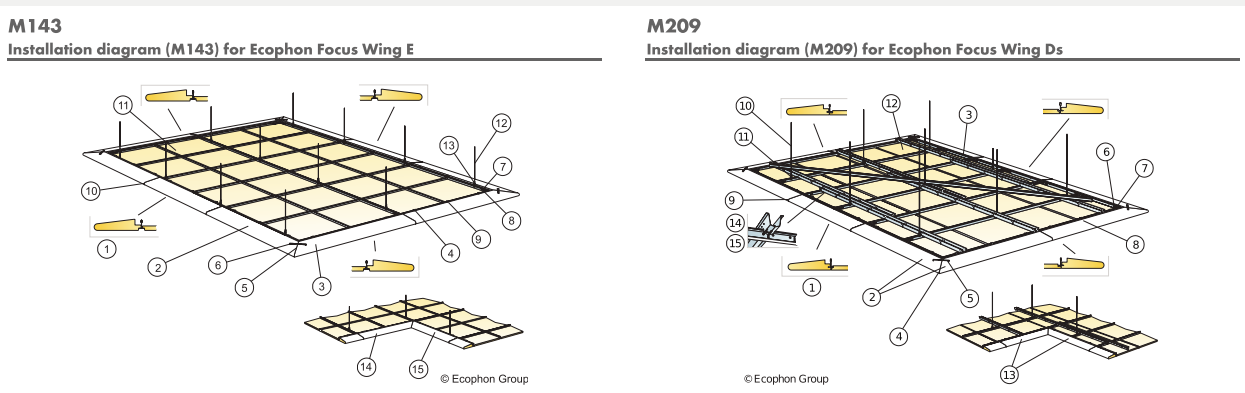
Installation: Installed according to installation diagrams, installation guides and drawing aid. For information regarding minimum overall depth of system see quantity specification.

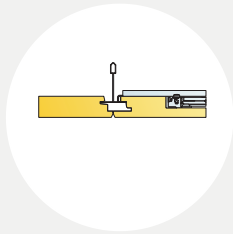
System weight: The systems consist of Ecophon Focus™ Wing elements and Connect™ grid systems, with an approximate weight of 1 kg/m.

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.

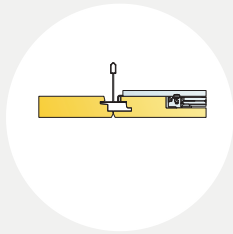
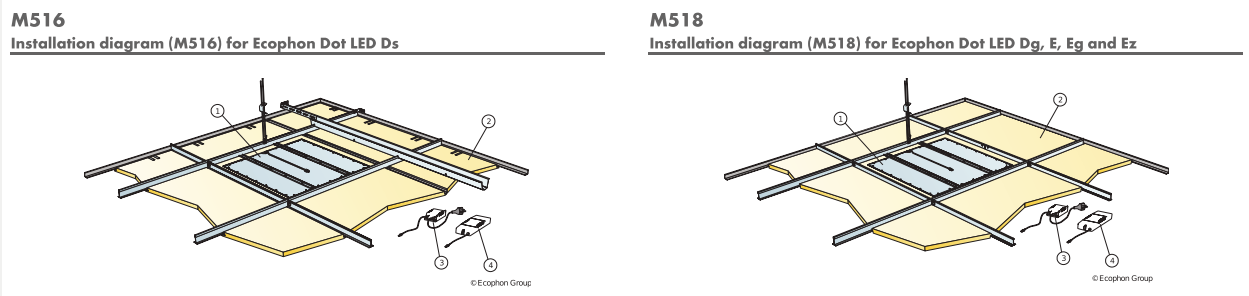
Visual appearance: Tile surface finish; White Frost, nearest NCS colour sample S 0500-N, 85% light reflectance. Gloss < 1.

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



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.

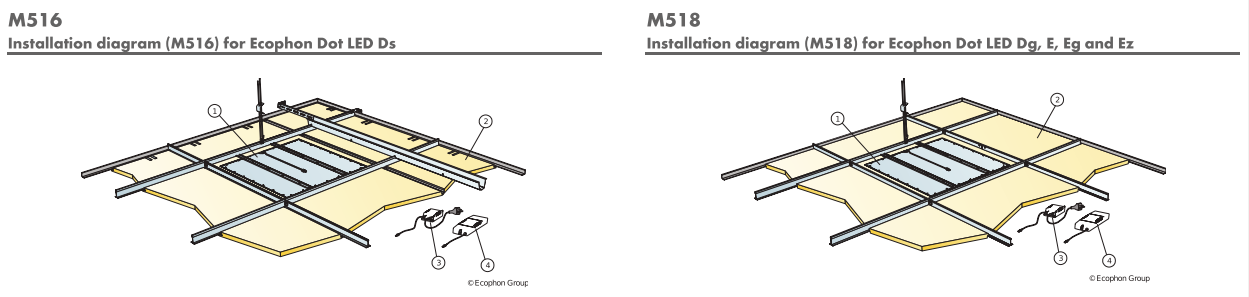
Visual appearance: Tile surface finish; White Frost, nearest NCS colour sample S 0500-N, 85% light reflectance. Gloss < 1.

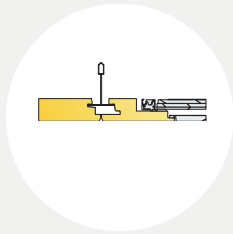
Cleanability: Daily dusting and vacuum cleaning. Weekly wet wiping.

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





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.

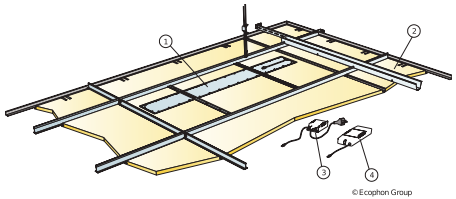
Cleanability: Daily dusting and vacuum cleaning. Weekly wet wiping.

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

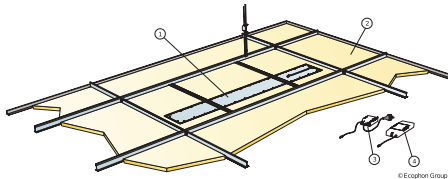
Installation: Installed according to system range which include information regarding minimum overall depth of system. The tile with luminaire housing rests on the T-profiles and the SwitchDIM/DALI and standard on/off ballasts are fastened to the grid or tile next to the luminaire with velcro. Once the 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

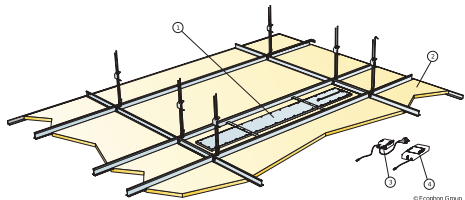
M517
Installation diagram (M517) for Ecophon Line LED Ds



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 yra pirmaujanti patalpų akustinių produktų, gerinančių darbo našumą ir gyvenimo kokybę, tiekėja. Tikime, kad garsas gali pakeisti mūsų kasdienį gyvenimą, ir neabejojame, jog akustika daro didžiulį poveikį žmonių savijautai bet kokioje vietoje, užsiimant bet kokia veikla ir tenkinant bet kokius poreikius.

Užtikrinti palankų poveikį žmonėms – tai principas, kuriuo vadovaujamės, kad ir ką darytume. Didžiuojamės švedišku paveldu ir žmogišku požiūriu, kuriuo grindžiamas šis pažadas. Be to, mes, kaip Saint-Gobain grupės nariai, prisidedame prie to, kad pasaulis taptų geresniais namais.