

Ecophon FocusTM A

Ecophon Focus™ A has an exposed grid system with easily demountable tiles. For applications where a robust suspended ceiling system is required. Improves absorption in the low frequency range, Ecophon Extra Bass can be installed on top of the suspended ceiling.



SYSTEM RANGE



0.0	_						
Size, mm				XL	XL	XL	XL
	600x600	1200x600	1200×1200	1600x600	1800x600	2000x600	2400x600
Connect T15	•	•	•				
Connect T24	•	•	•	•	•	•	•
T24	•	•	•				
Thickness (THK)	20	20	20	20	20	20	20
Inst. Diagr.	M01, M399	M01, M399	M01	M16, M46	M16, M46	M16, M46	M16, M46

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Focus A system

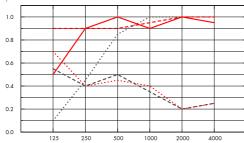
Acoustic



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.

$\alpha_{\scriptscriptstyle D}$, Practical sound absorption coefficient



- Focus A 20 mm, 50 mm o.d.s.
- Focus A 20 mm, 200 mm o.d.s.
- --- Focus A 20 mm + Extra Bass 50 mm, 200 mm o.d.s.
- --- Focus A gamma 20 mm, 200 mm o.d.s.
- ···· Focus A gamma 20 mm + Extra Bass 50 mm, 200 mm o.d.s.

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

	THK	o.d.s. mm		α _p , Prac	tical sound	d absorptior	coefficient		α_{w}	Sound absorption class
	mm	0.0.5. 111111	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	W.	30011d absorption class
-	20	50	0.10	0.45	0.85	1.00	1.00	1.00	0.75	С
-	20	200	0.50	0.90	1.00	0.90	1.00	0.95	1.00	А
+ Extra Bass,	70	200	0.90	0.90	0.90	0.95	1.00	1.00	0.95	А
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	AC(1.5)	D _{nfw}	CAC dB
mm	Articulation Class, ASTM E1111, ASTM E1110	Weighted normalized flanking level difference, ISO 10848-2	Ceiling Attenuation Class, ASTM 1414, ASTM E413
20	190	20	21

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Indoor Air Quality

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









Cradle to Cradle Certified®



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



Material Health

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



Environmental Footprint

	kg CO2 equiv/m²	Life-cycle stages A1 to C4 from EPD, in conformity with ISO 14025 / EN 15804
Focus A	2.60	— 14023 / EIN 13604



Circularity

Minimum post-consumer recycled content	51%
Recyclability	Fully recyclable



Fire safety

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



Humidity Resistance

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



Visual appearance

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



Cleanability

Daily dusting and vacuum cleaning. Weekly wet wiping.



Accessibility

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

77 m

Installation

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



System weight

The weight of the system (including suspension grid) should be approximately 3 kg/m^2 .



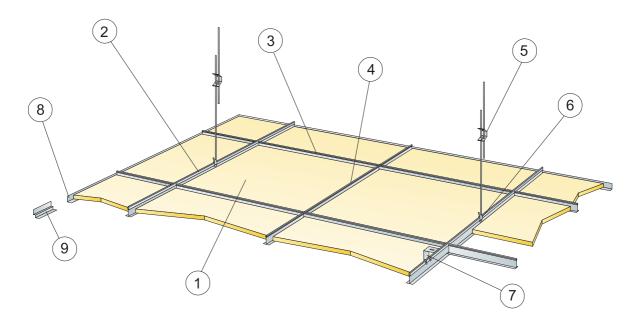
Mechanical properties

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



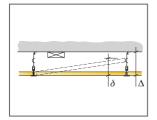
CE

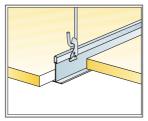
Ecophon ceiling systems are CE marked according to the European harmonized standard EN13964:2014. CE marked construction products are covered by a Declaration of Performance (DOP) which enables customers and users to easily compare performance of products available on the European market.



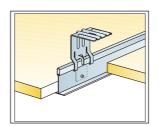
QUANTITY SPECIFICATION (EXCL. WASTAGE)

	Size, mm		
	600×600	1200×600	1200×1200
1 Focus A	2,8/m²	1,4/m²	0,7/m²
2 Connect T24 or T15 Main runner, installed at 1200 mm centres (max. distance from wall 600 mm, can be extended up to 1200 mm if no live load between Main runner and wall).	0,9m/m²	0,9m/m²	0,9m/m²
3 Connect T24 or T15 Cross tee, L=1200 mm, installed at 600 mm centres	1,7m/m²	1,7m/m²	0,9m/m²
4 Connect T24 or T15 Cross tee, L=600 mm	0,9m/m²	-	-
5 Connect Adjustable hanger, installed at 1200 mm centres (max. distance from wall 600 mm)	0,7/m²	0,7/m²	0,7/m²
5 Connect Hanger Clip (not to be used in swimming hall environments)	0,7/m²	0,7/m²	0,7/m²
For direct installation: Connect Direct Bracket, installed at 1200 mm centres	0,7/m²	0,7/m²	0,7/m²
3 Connect Angle trim, fixed at 300 mm centres	as required	as required	as required
P Connect Shadow-line trim, fixed at 300 mm centres	as required	as required	as required
Δ Min. overall depth of system, with adjustable hanger: 100 mm, with direct bracket: 50 mm	-		
δ Min. demounting depth: 120 mm (130 mm with 1200x1200)	-	-	-
For luminaire integration in panels use Connect Bridging	-	-	
When using panels in format 1200x1200 mm and XL-format in combination with T15 grid, secure grid with wall brackets		-	-





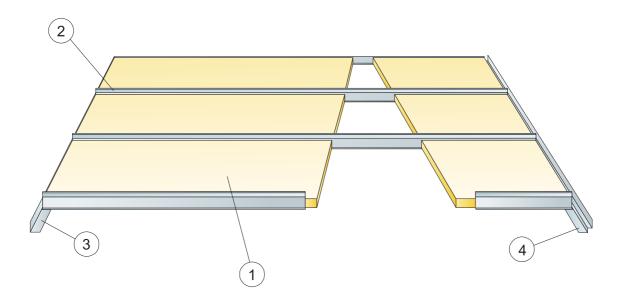
Suspension with adjustable hanger and clip



Suspension with direct bracket

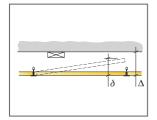
load (N)	Min load bearing capacity (N)
50	160
50	160
50	160
	50 50

Live load/load bearing capacity



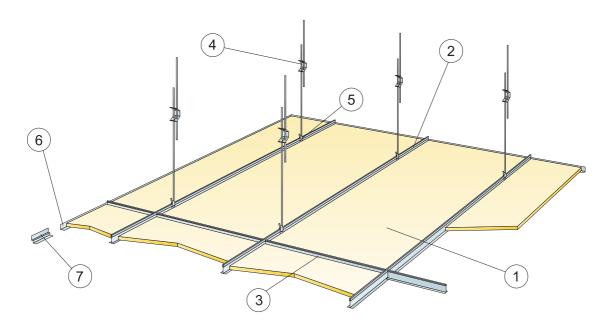
QUANTITY SPECIFICATION (EXCL. WASTAGE)

		Size, mm			
		1600×600	1800×600	2000×600	2400×600
1	Focus A	1,05/m²	0,95/m²	0,85/m²	0,7/m²
2	Connect T24 Corridor profile, installed at 600 mm centres	1,05/m²	0,95/m²	0,85/m²	0,7/m²
3	Connect Angle trim, fixed at 200 mm centres	as required	as required	as required	as required
4	Connect Shadow-line trim, fixed at 200 mm centres	as required	as required	as required	as required
	Δ Min. overall depth of system: 40 mm	-	-	-	-
	δ Min. demounting depth: 65 mm	-	-	-	-



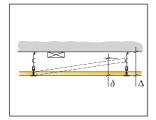
Size, mm	Max live load (N)	Min load bearing capacity (N)
1600x600x20	40	=
1800x600x20	20	-
2000x600x20	10	-
2400x600x20	0	-

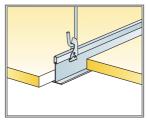
Live load/load bearing capacity



QUANTITY SPECIFICATION (EXCL. WASTAGE)

	Size, mm			
	1600×600	1800×600	2000×600	2400×600
Focus A	1,05/m²	0,95/m²	0,85/m²	0,7/m²
Connect T24 Main runner, installed at 600 mm centres	1,7m/m²	1,7m/m²	1,7m/m²	1,7m/m²
3 Connect T24 Cross tee, L=600 mm	0,65m/m²	0,6m/m²	0,5m/m ²	0,45m/m ²
4 Connect Adjustable hanger, installed at 1500 mm centres (max. distance from wall 450 mm)	1,1/m²	1,1/m²	1,1/m²	1,1/m²
5 Connect Hanger clip	1,1/m²	1,1/m²	1,1/m²	1,1/m²
5 Connect Angle trim, fixed at 300 mm centres	as required	as required	as required	as required
7 Connect Shadow-line trim, fixed at 300 mm centres	as required	as required	as required	as required
Δ Min. overall depth of system: 100 mm	-	-	-	-
δ Min. demounting depth: 100 mm	-		-	-

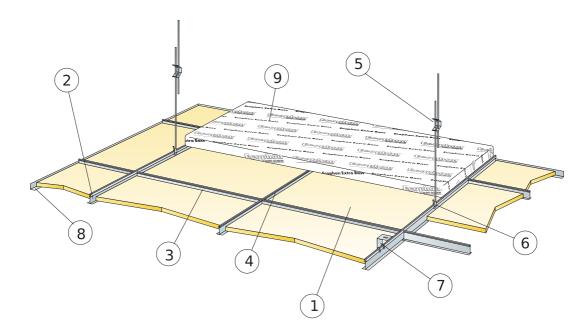




Suspension with adjustable hanger and clip

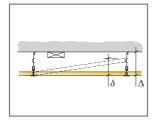
Size, mm	Max live load (N)	Min load bearing capacity (N)
1600x600x20	50	160
1800x600x20	50	160
2000x600x20	50	160
2400x600x20	50	160

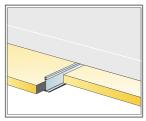
Live load/load bearing capacity



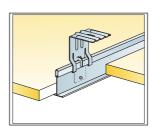
QUANTITY SPECIFICATION (EXCL. WASTAGE)

	Size, mm	
	600×600	1200×600
Focus A	2,8/m²	1,4/m²
2 Connect T24 Main runner black, installed at 1200 mm centres (max. distance from wall 600 mm, can be extended up to 1200 mm if no live load between Main runner and wall).	0,9m/m²	0,9m/m²
Connect T24 Cross tee black, L=1200 mm, installed at 600 mm centres	1,7m/m²	1,7m/m²
4 Connect T24 Cross tee black, L=600 mm	0,9m/m²	-
Connect Adjustable hanger, installed at 1200 mm centres (max. distance from wall 600 mm)	0,7/m²	0,7/m²
Connect Hanger Clip (not to be used in swimming hall environments)	0,7/m²	0,7/m²
For direct installation: Connect Direct Bracket, installed at 1 200 mm centres	0,7/m²	0,7/m²
3 Connect Angle trim black, [fixed at 300 mm centres]	as required	as required
Extra Bass (1200x600x50 mm)	0,7/m²	0,7/m²
Δ Min. overall depth of system: Focus A: 50 mm (Direct bracket). Focus A/with Extra bass: 100 mm.	-	
δ Min. demounting depth: Focus A: 130 mm, Focus A/with Extra bass: 170 mm		









Fixing with direct bracket

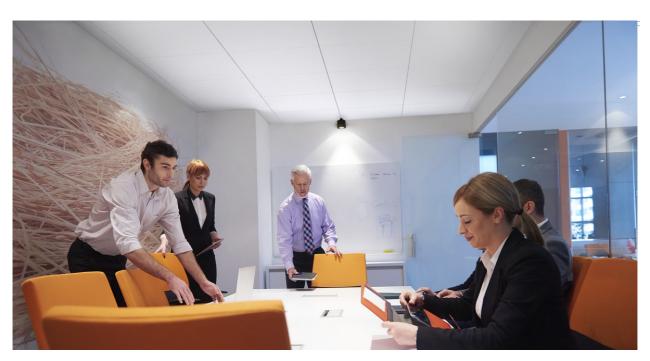
Size, mm	Max live load (N)	Min load bearing capacity (N)
600x600x20	50	160
1200x600x20	50	160

Live load/load bearing capacity



Ecophon FocusTM B

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



SYSTEM RANGE



Size, mm	
	600x600
Direct	•
Thickness (THK)	20
Inst. Diagr.	M03







Focus B tile

Section of Focus B system

Focus B system

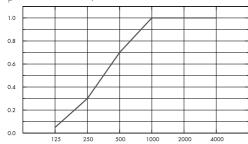
Acoustic



Sound Absorption:

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

 $lpha_{\scriptscriptstyle D}$, Practical sound absorption coefficient



Focus B 20 mm, 23 mm o.d.s.o.d.s = overall depth of system

Frequency Hz

THK	o.d.s. mm		$lpha_{p'}$ Pr	$lpha_{ m p}$, Practical sound absorption coefficient $lpha_{ m w}$ Sound absorption					
mm	0.u.s. IIIIII	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	o. _₩	Sound absorption class
20	23	0.05	0.30	0.70	1.00	1.00	1.00	0.60	С

THK mm	o.d.s. mm	nm NRC	
20	23	0.75	0.77



Indoor Air Quality











Cradle to Cradle Certified®



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Material Health

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Environmental Footprint

	kg CO2 equiv/m²	Life-cycle stages A1 to C4 from EPD, in conformity with ISO 14025 / EN 15804
Focus B	4,10	14023 / LIN 13004



Circularity

Minimum post-consumer recycled content	56%
Recyclability	Fully recyclable



Fire safety

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



Humidity Resistance

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



Visual appearance

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



Cleanability

Daily dusting and vacuum cleaning. Weekly wet wiping.



Accessibility

The tiles are not demountable.



Installation

Installed according to installation diagrams, installation guides and drawing aid. For information regarding minimum overall depth of system see quantity specification. 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/m 2



Mechanical properties

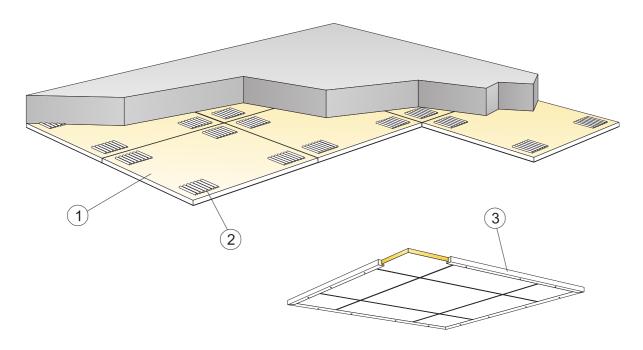
Additional live load has to be fixed to the soffit.



CE

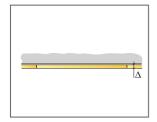
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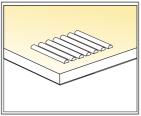
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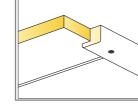


QUANTITY SPECIFICATION (EXCL. WASTAGE)

		Size, mm
		600×600
1	Focus B	2,8/m²
2	Connect Absorber glue (0,25 l/m² - 0,4 l/m² depending on installation conditions)	as required
	Use Connect Notched spatula to apply the glue.	-
3	When installing floating ceilings: Connect Wood trim, L=2500, fixed at 500 mm centres	as required
	Δ Min. overall depth of system: 23 mm	-
	δ Min. demounting depth: The system is not demountable	
	Cut visible edges should be painted	-









Application of glue

Wood trim for floating installation

Live load/load bearing capacity



Ecophon FocusTM Ds

Ecophon Focus™ Ds is ideal when looking for a modular acoustic ceiling with discreet edge design. It has a concealed grid and bevelled edges with a narrow groove between each tile. Easy to install with the possibility to integrate light fittings and ventilation. For applications with high demand on both acoustics and design, and where individual tiles must be easily demountable.



SYSTEM RANGE



Size, mm	600x600	1200x600	1200×1200	XL 1600x600	XL 1800x600	XL 2000x600	XL 2400x600
T24	•	•	•	•	•	•	•
Thickness (THK)	20	20	20	20	20	20	20
Inst. Diagr.	M581, M583, M584, M613, M614	M581, M583, M584, M613, M614	M582	M581, M238	M581, M238	M581, M238	M581, M238







Section of Focus Ds system with Connect T24 Main runner PL



Focus Ds system



The individual tiles are easily demountable

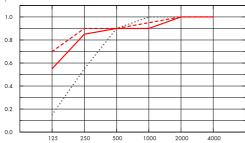
Acoustic



Sound Absorption:

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

 $lpha_{\scriptscriptstyle D}$, Practical sound absorption coefficient



- Focus Ds 20 mm, 65 mm o.d.s.
- Focus Ds 20 mm, 200 mm o.d.s.
- --- Focus Ds 20 mm + Extra Bass 50 mm, 200 mm

o.d.s = overall depth of system

Frequency Hz

	THK	o.d.s. mm		α _p , Pra	ctical soun	d absorption	coefficient		$\alpha_{\scriptscriptstyle{W}}$	Sound absorption class
	mm	O.G.S. IIIIII	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	∞ _w	Sound absorption class
-	20	65	0.15	0.55	0.90	1.00	1.00	1.00	0.85	В
-	20	200	0.55	0.85	0.90	0.90	1.00	1.00	0.95	А
+ Extra Bass	70	200	0.70	0.90	0.90	0.95	1.00	1.00	0.95	А

	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	AC(1.5)	D_{nfw}	CAC dB
mm	Articulation Class, ASTM E1111, ASTM E1110	Weighted normalized flanking level difference, ISO 10848-2	Ceiling Attenuation Class, ASTM 1414, ASTM E413
20	180	24	23

Indoor Air Quality



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









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Environmental Footprint

	kg CO2 equiv/m²	Life-cycle stages A1 to C4 from EPD, in conformity with ISO 14025 / EN 15804
Focus Ds (EN 15804+A2)	3,70	14023 / LIN 13004



Circularity

Minimum post-consumer recycled content	54%
Recyclability	Fully recyclable



Fire safety

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



Humidity Resistance

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



Visual appearance

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



Cleanability

Daily dusting and vacuum cleaning. Weekly wet wiping.



Accessibility

The tiles in size 600x600 and 1200x600 are easly 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 $3 \, \text{kg/m}^2$ and $4,5 \, \text{kg/m}^2$ with Extra Bass

kg

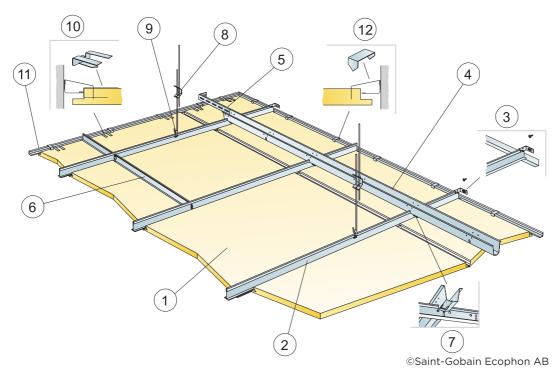
Mechanical properties

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

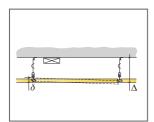


CE

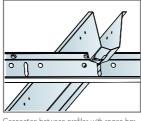
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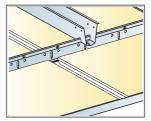
	Size, mm					
	600×600	1200×600	1600×600	1800×600	2000×600	2400×600
1 Focus Ds	2,8/m²	1,4/m²	1,05/m²	0,95/m²	0,85/m²	0,7/m²
Connect T24 Main Runner PL, installed at 600 mm centres	1,7m/m²	1,7m/m²	1,7m/m²	1,7m/m²	1,7m/m²	1,7m/m²
Connect Wall Bracket for T-profiles	1/suspended ro	ow of Main runner				
Connect Space Bar, installed at 1500 mm centres (max. distance from wa 300 mm)	ill 0,7m/m²	0,7m/m²	0,7m/m²	0,7m/m²	0,7m/m²	0,7m/m²
5 Connect Wall Bracket, L=700 mm, for Connect Space Bar	1/row of Space	e bar				
Connect T24 Cross Tee, L=600 mm	2/row of Main	runner				
Connect Space Bar Winch, installed one per joint Connect Main Runner/Connect Space Bar	1,4/m²	1,4/m²	1,4/m²	1,4/m²	1,4/m²	1,4/m²
Connect Adjustable hanger, installed at 1200 mm centres (max. distance from wall 600 mm)	0,7/m²	0,7/m²	0,7/m²	0,7/m²	0,7/m²	0,7/m²
Connect Hanger Clip (not to be used in swimming hall environments)	0,7/m²	0,7/m²	0,7/m²	0,7/m²	0,7/m²	0,7/m²
10 Connect Support clip Dg20	1pc/300-400 r	mm on every cut perim	eter tile with only 1 su	pporting edge		
11 Connect Angle trim 15/22, fixed at 300 mm centres	as required	as required	as required	as required	as required	as required
12 Connect Perimeter tile clip	1/300-400mm	on any cut edge				
Δ Min. overall depth of system: 120 mm	-		-			
δ Min. demounting depth: 30 mm	-	-	-	-	-	-
For luminaire integration in panels use Connect Bridging						
	-	-	-	-	-	-



See Quantity Specification



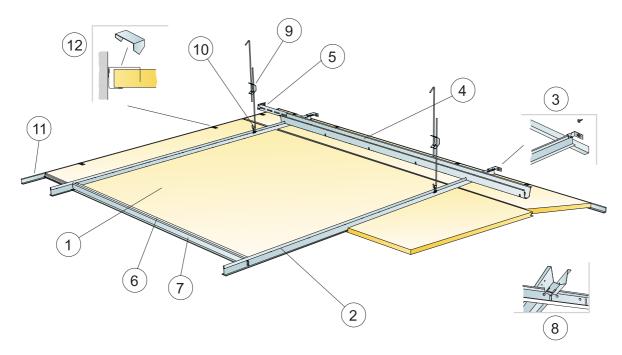
Connection between profiles with space bar winch



Installation with Main runner PL and space bar

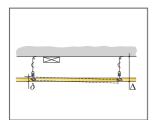
Size, mm	Max live load (N)	Min load bearing capacity (N)
600x600x20	35	160
1200x600x20	35	160
1600x600x20	35	160
1800x600x20	35	160
2000x600x20	35	160
2400x600x20	35	160

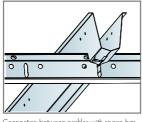
Live load/load bearing capacity



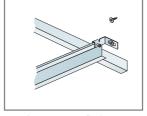
©Saint-Gobain Ecophon AB

		Size, mm
		1200×1200
1	Focus Ds	0,7/m²
2	Connect T24 Main Runner PL, installed at 1200 mm centres	O,9m/m²
3	Connect Wall Bracket for T-profiles	1/suspended row of Main runner
4	Connect Space Bar, installed at 1500 mm centres (max. distance from wall 300 mm)	0,7m/m²
5	Connect Wall Bracket, L=700 mm, for Connect Space Bar	1/row of Space bar
6	Connect Edge stiffener	1,4/m²
7	Connect T24 Cross tee, L=1 200 mm	2/row of Main runner
8	Connect Space Bar Winch, installed one per joint Connect Main Runner/Connect Space Bar	0,7/m²
9	Connect Adjustable hanger, installed at 1200 mm centres (max. distance from wall 600 mm)	0,7/m²
10	Connect Hanger Clip (not to be used in swimming hall environments)	0,7/m²
11	Connect Angle trim 15/22, fixed at 300 mm centres	as required
12	Connect Perimeter tile clip	1/300-400mm on any cut edge
	Δ Min. overall depth of system: 120 mm	
	δ Min. demounting depth: 50 mm	
	For luminaire integration in panels use Connect Bridging	

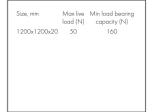




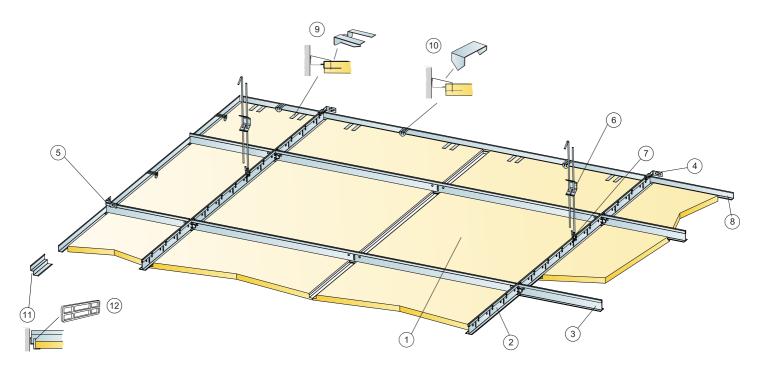
Connection between profiles with space bar winch



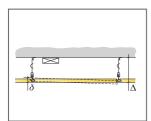
Secured Main runner at wall with Connect Wall bracket



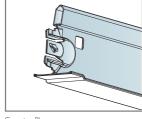
Live load/load bearing capacity



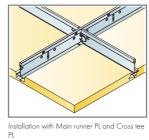
		Size, mm	
		600×600	1200×600
1	Focus Ds	2,8/m²	1,4/m²
2	Connect T24 Main Runner PL, installed at 1200 mm centres	0,9m/m²	0,9m/m²
3	Connect T24 Cross Tee PL, L=1 200 mm, installed at 600 mm centres	1,7m/m²	1,7m/m²
4	Connect Wall Bracket, fixed 1200mm centres for Main runner	2/suspended row	of Main runner
5	Connect Wall Bracket, fixed 1200mm centres for Cross tee	0,5/row of cross	lee
6	Connect Adjustable hanger, installed at 1200 mm centres (max. distance from wall 600 mm)	0,7/m²	0,7/m²
7	Connect Hanger Clip (not to be used in swimming hall environments)	0,7/m²	0,7/m²
8	Connect Angle trim 15/22, fixed at 300 mm centres	as required	as required
9	Connect Support clip Dg20	1 pc/300-400 mr tile with only 1 sup	n on every cut perimete oporting edge
10	Connect Perimeter tile clip	1/perimeter tile	
11	Connect Shadow-line trim, fixed at 300 mm centres	as required	as required
12	Connect Wall spacer 5	1 on the long side tile	of every cut perimeter
	Δ Min. overall depth of system: 120 mm		
	δ Min. demounting depth: 30 mm		-
	For luminaire integration in panels use Connect Bridging		-





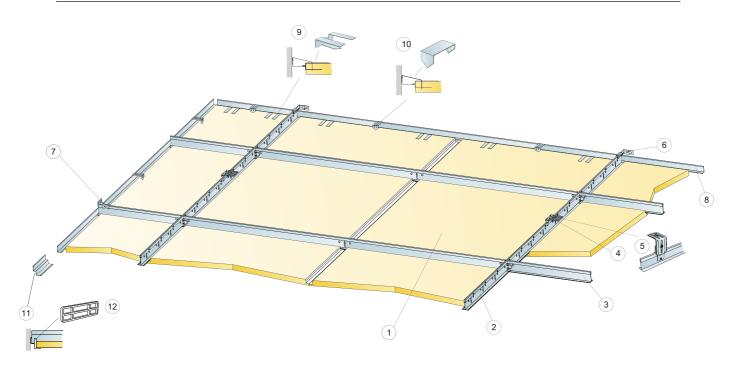


Cross tee PL

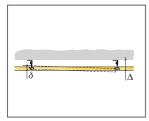


160

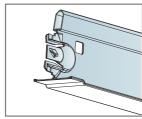
Live load/load bearing capacity



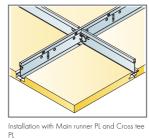
	Size, mm	
	600×600	1200×600
Focus Ds	2,8/m²	1,4/m²
Connect T24 Main Runner PL, installed at 1200 mm centres	0,9m/m²	0,9m/m²
Connect T24 Cross Tee Pl, L=1200 mm, installed at 600 mm centres	1,7m/m²	1,7m/m²
Connect Direct bracket, (installed at 1200 mm centres)	0,7/m²	0,7/m²
Alt. Connect Adjust direct bracket, installed at 1200 mm centres	0,7/m²	0,7/m²
Connect Wall Bracket, fixed 1200mm centres for Main runner	2/suspended ro	w of Main runner
Connect Wall Bracket, fixed 1200mm centres for Cross tee	0,5/row of cross	s tee
Connect Angle trim 15/22, fixed at 300 mm centres	as required	as required
Connect Support clip Dg20	1 pc/300-400 n tile with only 1 si	nm on every cut perimeter upporting edge
Connect Perimeter tile clip	1/perimeter tile	
Connect Shadow-line trim, fixed at 300 mm centres	as required	as required
Connect Wall spacer 5	1 on the long sid tile	e of every cut perimeter
Δ Min. overall depth of system: 65 mm		
δ Min. demounting depth: 30 mm		-
For luminaire integration in panels use Connect Bridging		-
	Connect T24 Main Runner PL, installed at 1200 mm centres Connect T24 Cross Tee PL, L=1200 mm, installed at 600 mm centres Connect Direct bracket, (installed at 1200 mm centres) Alt. Connect Adjust direct bracket, installed at 1200 mm centres Connect Wall Bracket, fixed 1200mm centres for Main runner Connect Wall Bracket, fixed 1200mm centres for Cross tee Connect Angle trim 15/22, fixed at 300 mm centres Connect Support clip Dg20 Connect Perimeter tile clip Connect Shadow-line trim, fixed at 300 mm centres Connect Wall spacer 5	Focus Ds Connect T24 Main Runner Pt, installed at 1200 mm centres Onect T24 Cross Tee Pt, L=1200 mm, installed at 600 mm centres Connect Direct bracket, (installed at 1200 mm centres) Alt. Connect Adjust direct bracket, installed at 1200 mm centres Onect Wall Bracket, fixed 1200 mm centres for Main runner Connect Wall Bracket, fixed 1200 mm centres for Cross tee O.5/row of cross Connect Angle trim 15/22, fixed at 300 mm centres Connect Support clip Dg20 1pc/300400 mile with only 1 sile with only 1 sil





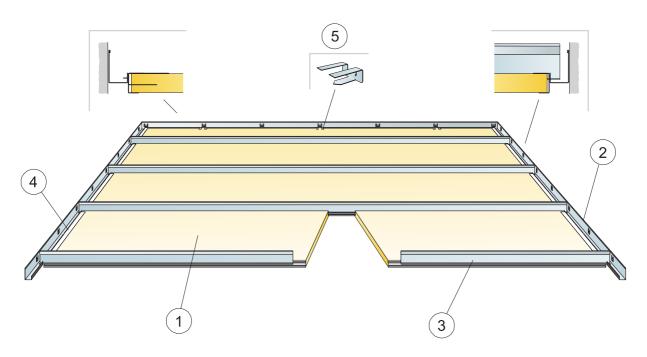


Cross tee PL



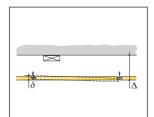
Size, mm 600x600x20	Max live load (N) 50	Min load bearing capacity (N) 160
1200x600x20	50	160

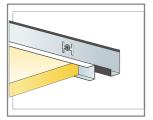
Live load/load bearing capacity



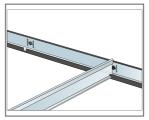
QUANTITY SPECIFICATION (EXCL. WASTAGE)

		Size, mm	Size, mm		
		1600×600	1800×600	2000×600	2400×600
	Focus Ds XL	1,05/m²	0,95/m²	0,85/m²	0,7/m²
2	Connect Modular Wall trim	as required	as required	as required	as required
3	Connect T24 Corridor profile	1,05/m²	0,95/m²	0,85/m²	0,7/m²
ı	Connect Cover trim Ds	2/tile plus end til	es		
i	Connect Support clip Dg 20	1pc/300-400 m	1 pc/300-400 mm on every cut perimeter tile with only 1 supporting edge		
	Δ Min. overall depth of system: 55 mm		-	-	-
	δ Min. demounting depth: 30 mm	-	-		-





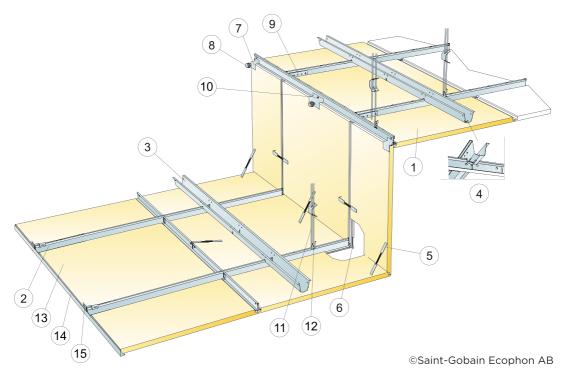
Tile and Connect Cover trim Ds



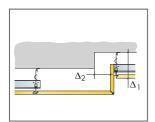
Corridor profile positioned by Modular wall trim

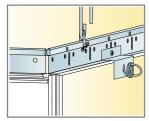
	load (N)	capacity (N)
1600x600x20	40	-
1800x600x20	20	-
2000x600x20	10	-
2400x600x20	0	-

Live load/load bearing capacity

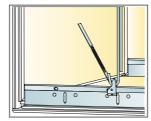


		Size, mm	
		600×600	1200×600
1	Focus Ds	2,8/m²	1,4/m²
2	Connect T24 Main Runner PL, installed at 600 mm centres	1,7m/m²	1,7m/m²
3	Connect Space bar, installed at 1500 mm centres (max. distance from Vertical tile 450 mm)	0,7m/m²	0,7m/m²
4	Connect Space Bar Winch, installed one per joint Connect Main Runner/Connect Space Bar	1,4/m²	1,4/m²
5	Connect Hook	3/panel	3/panel
5	Connect Distance Ds (included in Level change Ds kit)	1/panel	1/panel
7	Connect level clip Ds (included in Level change Ds kit)	1/panel	1/panel
3	Connect Spiral anchor	1/panel	1/panel
7	Connect L-coupling	1/row of Main	runner
10	Connect Installation screw BR	as required	as required
11	Connect Adjustable hanger, installed at 1 200 mm centres (max. distance from wall 600 mm)	0,7/m²	0,7/m²
12	Connect Hanger Clip (not to be used in swimming hall environments)	0,7/m²	0,7/m²
13		as required	as required
14	Connect Angle trim 15/22, fixed at 300 mm centres	as required	as required
15	Connect Wall Bracket for T-profiles	1/suspended ro	w of Main runner
	Δ Min. overall depth of system: Δ 1=165 mm and Δ 2=80 mm from upper level	-	
	δ Min. demounting depth: Individual ceiling tiles are non-demountable	-	
	Dimension: c=600 mm, h<530 mm		-





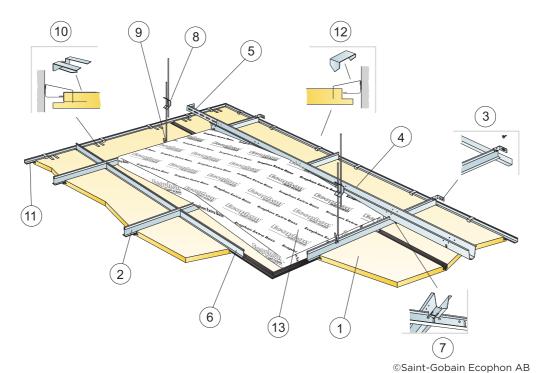
Upper level connection to Main runner PL



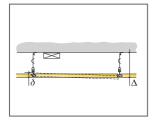
Distance between Focus Lp tiles

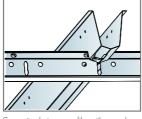
Size, mm 600x600x20	Max live load (N)	Min load bearing capacity (N) 160
1200x600x20	0	160
1200x600x20	0	160

Live load/load bearing capacity

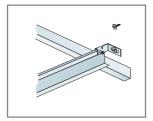


		Size, mm	
		600×600	1200×600
1	Focus Ds	2,8/m²	1,4/m²
2	Connect T24 Main Runner PL, installed at 600 mm centres	1,7m/m²	1,7m/m²
3	Connect Wall Bracket for T-profiles	1/suspended ro	w of Main runner
4	Connect Space Bar, installed at 1500 mm centres (max. distance from wall 300 mm)	0,7m/m²	0,7m/m²
5	Connect Wall Bracket, L=700 mm, for Connect Space Bar	1/row of Space	bar
6	Connect T24 Cross tee, L=600 mm	2/row of Main r	unner
7	Connect Space Bar Winch, installed one per joint Connect Main Runner/Connect Space Bar	1,4/m²	1,4/m²
8	Connect Adjustable hanger, installed at 1200 mm centres (max. distance from wall 600 mm)	0,7/m²	0,7/m²
9	Connect Hanger Clip (not to be used in swimming hall environments)	0,7/m²	0,7/m²
10	Connect Support clip Dg20	1/300-400mm o	on any cut edge
11	Connect Angle trim black, (fixed at 300 mm centres)	as required	as required
12	Connect Perimeter tile clip	1/300-400mm c	on any cut edge
13	Extra Bass (1200x600x50 mm)	0,7/m²	0,7/m²
	Δ Min. overall depth of system: 120 mm		-
	δ Min. demounting depth: 30 mm	-	-





Connection between profiles with space bar



Connection between profiles with split pin

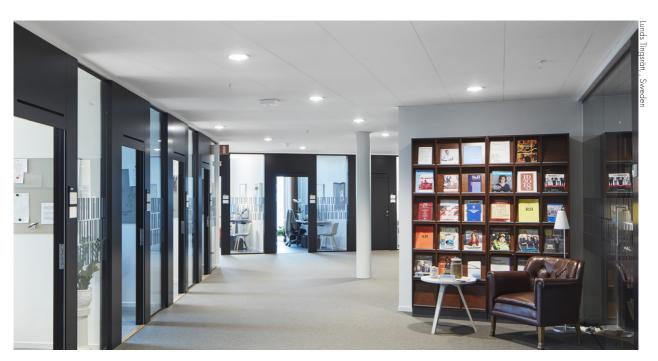
Size, mm 600x600x20	Max live load (N) 25	Min load bearing capacity (N) 160
1200x600x20	25	160

Live load/load bearing capacity



Ecophon FocusTM Ds

Ecophon Focus™ Ds has a concealed grid and symmetrical bevelled edge with an even appearance. Increases assembly ease and integration of light fittings and ventilation. For applications where a suspended ceiling with a concealed grid is required, but individual tiles must be easily demountable.



SYSTEM RANGE



Size, mm	600x600	1200x600	1200×1200	XL 1600x600	XL 1800x600	XL 2000x600	XL 2400x600
T24	•	•	•	•	•	•	•
Thickness (THK)	20	20	20	20	20	20	20
Inst. Diagr.	M206, M208, M394, M400	M206, M208, M394, M400	M207	M206, M208, M238	M206, M208, M238	M206, M208, M238	M206, M208, M238







Section of Focus Ds system with Connect T24 Main runner HD



Focus Ds system



The individual tiles are easily demountable

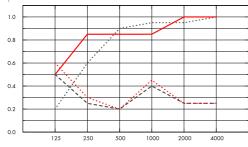
Acoustic



Sound Absorption:

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

 $lpha_{\scriptscriptstyle D}$, Practical sound absorption coefficient



- ···· Focus Ds 20 mm, 65 mm o.d.s.
- Focus Ds 20 mm, 200 mm o.d.s.
- --- Focus Ds gamma 20 mm, 200 mm o.d.s.
- ····Focus Ds gamma 20 mm + Extra Bass 50 mm, 200 mm o.d.s.

o.d.s = overall depth of system

Frequency Hz

	THK	a da mm		α _p , Prac	ctical sound	d absorptior	coefficient		. α,,,	Sound absorption class
	mm	o.d.s. mm	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz		30011d absorption class
-	20	65	0.20	0.60	0.90	0.95	0.95	1.00	0.90	А
-	20	200	0.50	0.85	0.85	0.85	1.00	1.00	0.90	А
gamma	20	200	0.50	0.25	0.20	0.40	0.25	0.25	0.25	Е
gamma + Extra Bass	70	200	0.60	0.30	0.20	0.45	0.25	0.25	0.25	E

	THK mm	o.d.s. mm	NRC	SAA
-	20	65	0.90	0.89
gamma	20	200	0.30	0.28
gamma + Extra Bass	70	200	0.30	0.29
-	20	400	0.80	0.82

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

Indoor Air Quality



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









Cradle to Cradle Certified®



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



Material Health

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



Environmental Footprint

	kg CO2 equiv/m²	Life-cycle stages A1 to C4 from EPD, in conformity with ISO 14025 / EN 15804
Focus Ds	4.60	- 14023 / EIN 13604



Circularity

Minimum post-consumer recycled content	57%
Recyclability	Fully recyclable



Fire safety

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



Mechanical properties

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



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

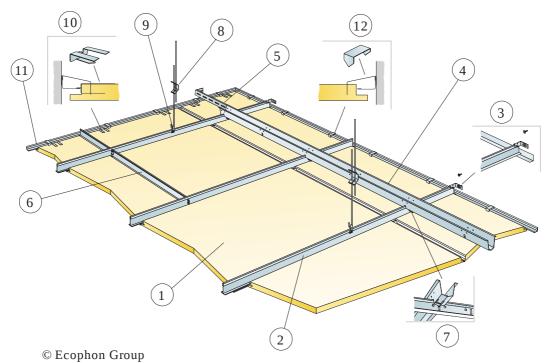


The weight of the system (including suspension grid) should be approximately $3-4\ kg/m^2$.

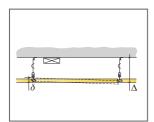


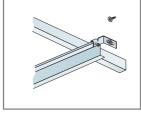
CE

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.

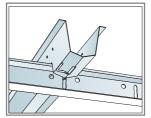


		Size, mm					
		600×600	1200×600	1600×600	1800×600	2000×600	2400×600
1	Focus Ds	2,8/m²	1,4/m²	1,05/m²	0,95/m²	0,85/m²	0,7/m²
2	Connect T24 Main Runner HD, installed at 600 mm centres	1,7m/m²	1,7m/m²	1,7m/m²	1,7m/m²	1,7m/m²	1,7m/m²
3	Connect Wall Bracket for T-profiles	1/suspended ro	w of Main runner				
1	Connect Space Bar, installed at 1500 mm centres (max. distance from wa 300 mm)	0,7m/m²	0,7m/m²	0,7m/m²	0,7m/m²	0,7m/m²	0,7m/m²
5	Connect Wall Bracket, L=700 mm, for Connect Space Bar	1/row of Space	bar				
5	Connect T24 Cross Tee, L=600 mm	2/row of Main	runner				
7	Connect Space Bar Winch, installed one per joint Connect Main Runner/Connect Space Bar	1,4/m²	1,4/m²	1,4/m²	1,4/m²	1,4/m²	1,4/m²
}	Connect Adjustable hanger, installed at 1200 mm centres (max. distance from wall 600 mm)	0,7/m²	0,7/m²	0,7/m²	0,7/m²	0,7/m²	0,7/m²
7	Connect Hanger Clip (not to be used in swimming hall environments)	0,7/m²	0,7/m²	0,7/m²	0,7/m²	0,7/m²	0,7/m²
10	Connect Support clip Dg20	1pc/300-400 r	nm on every cut perim	eter tile with only 1 su	pporting edge		
11	Connect Angle trim 15/22, fixed at 300 mm centres	as required	as required	as required	as required	as required	as required
12	Connect Perimeter tile clip	1/300-400mm on any cut edge					
	Δ Min. overall depth of system: 115 mm	-		-		-	-
	δ Min. demounting depth: 30 mm	-		-		-	-
	For luminaire integration in panels use Connect Bridging						





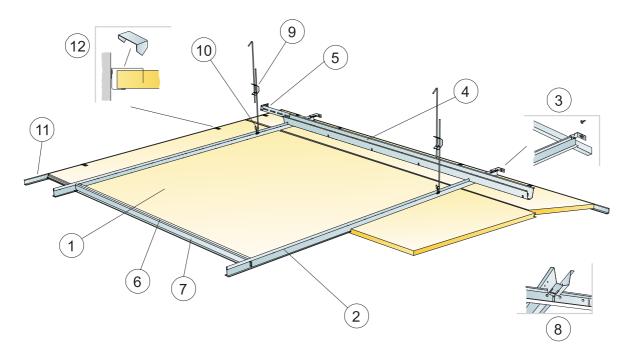
Secured Main runner at wall with Connect Wall bracket



Connection between profiles with space bar

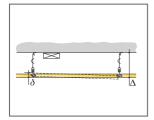
Size, mm	Max live load (N)	Min load bearing capacity (N)
600x600x20	50	160
1200x600x20	50	160
1600x600x20	50	160
1800x600x20	50	160
2000x600x20	50	160
2400x600x20	50	160

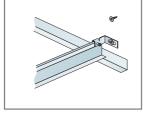
Live load/load bearing capacity



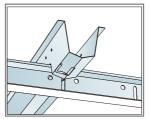
©Saint-Gobain Ecophon AB

	Size, mm
	1200×1200
1 Focus Ds	0,7/m²
 Connect T24 Main runner HD, installed at 1200 mm centres (max. distance from wall 600 mm, can be extended u wall). 	p to 1200 mm if no live load between Main runner and 0,9m/m²
3 Connect Wall Bracket for T-profiles	1/suspended row of Main runner
4 Connect Space Bar, installed at 1500 mm centres (max. distance from wall 300 mm)	0,7m/m²
5 Connect Wall Bracket, L=700 mm, for Connect Space Bar	1/row of Space bar
6 Connect Edge stiffener	1,4/m²
7 Connect T24 Cross tee, L=1 200 mm	2/row of Main runner
8 Connect Space Bar Winch, installed one per joint Connect Main Runner/Connect Space Bar	0,7/m²
9 Connect Adjustable hanger, installed at 1200 mm centres (max. distance from wall 600 mm)	0,7/m²
10 Connect Hanger Clip (not to be used in swimming hall environments)	0,7/m²
11 Connect Angle trim 15/22, fixed at 300 mm centres	as required
12 Connect Perimeter tile clip	1/300-400mm on any cut edge
Δ Min. overall depth of system: 115 mm	
δ Min. demounting depth: 50 mm	
For luminaire integration in panels use Connect Bridging	





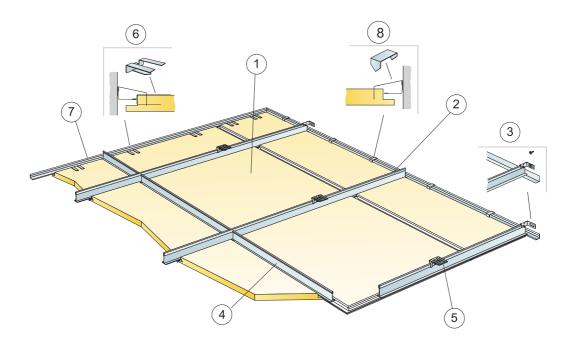
Secured Main runner at wall with Connect Wall bracket



Connection between profiles with space bar winch

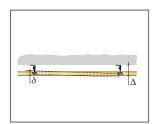


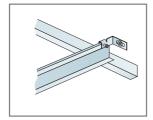
Live load/load bearing capacity



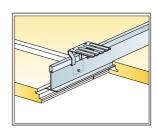
QUANTITY SPECIFICATION (EXCL. WASTAGE)

	Size, mm					
	600×600	1200×600	1600×600	1800×600	2000×600	2400×600
Focus Ds	2,8/m²	1,4/m²	1,05/m²	0,95/m²	0,85/m²	0,7/m²
2 Connect T24 Main Runner HD, installed at 600 mm centres	1,7m/m²	1,7m/m²	1,7m/m ²	1,7m/m²	1,7m/m²	1,7m/m²
Connect Wall Bracket for T-profiles	1/suspended ro	w of Main runner				
4 Connect T24 Cross Tee, L=600	2/row of Main	runner				
5 Connect Direct bracket, installed at 1500 mm centres	1,1/m²	1,1/m²	1,1/m²	1,1/m²	1,1/m²	1,1/m²
Connect Support clip Dg20	1/300-400mm	on any cut edge				
Connect Angle trim 15/22, fixed at 300 mm centres	as required	as required	as required	as required	as required	as required
Connect Perimeter tile clip can be used if sufficent space is available.	1pc/300-400 r	mm on every cut perim	eter tile with only 1 su	pporting edge		
Δ Min. overall depth of system: 65 mm	-	-	-	-	-	-
δ Min. demounting depth: 30 mm	-	-	-			-
For luminaire integration in panels use Connect Bridging	-	-	-	-	-	





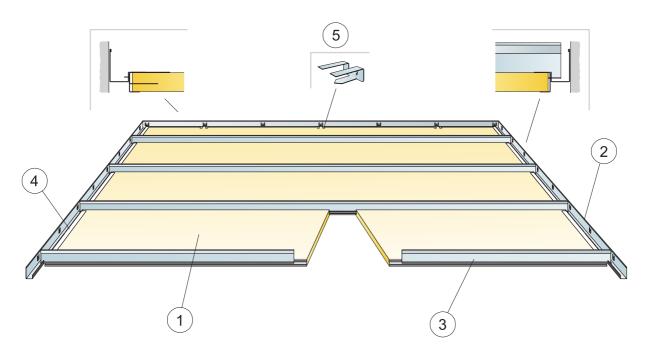
Secured Main runner at wall with Connect Wall bracket



Suspension with direct fix bracket

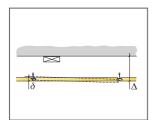
Size, mm	Max live load (N)	Min load bearing capacity (N)
600x600x20	50	160
1200x600x20	50	160
1600x600x20	50	160
1800x600x20	50	160
2000x600x20	50	160
2400x600x20	50	160

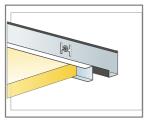
Live load/load bearing capacity



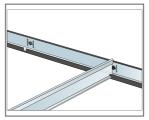
QUANTITY SPECIFICATION (EXCL. WASTAGE)

		Size, mm	Size, mm			
		1600×600	1800×600	2000×600	2400×600	
1	Focus Ds XL	1,05/m²	0,95/m²	0,85/m²	0,7/m²	
2	Connect Modular Wall trim	as required	as required	as required	as required	
3	Connect T24 Corridor profile	1,05/m²	0,95/m²	0,85/m²	0,7/m²	
1	Connect Cover trim Ds	2/tile plus end til	es			
5	Connect Support clip Dg 20	1pc/300-400 m	m on every cut perim	eter tile with only 1 su	pporting edge	
	Δ Min. overall depth of system: 55 mm		-	-	-	
	δ Min. demounting depth: 30 mm	-				





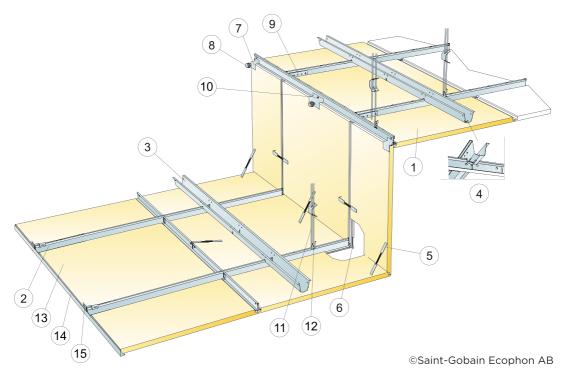
Tile and Connect Cover trim Ds



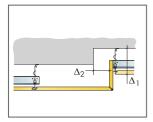
Corridor profile positioned by Modular wall trim

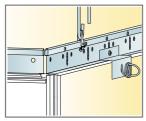
Size, mm	Max live load (N)	Min load bearing capacity (N)
1600x600x20	40	÷
1800x600x20	20	-
2000x600x20	10	-
2400x600x20	0	-

Live load/load bearing capacity

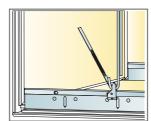


		Size, mm	
		600×600	1200x600
1	Focus Ds	2,8/m²	1,4/m²
2	Connect T24 Main Runner HD, installed at 600 mm centres	1,7m/m²	1,7m/m²
3	Connect Space bar, installed at 1500 mm centres (max. distance from wall 300 mm)	0,7m/m²	0,7m/m²
4	Connect Space Bar Winch, installed one per joint Connect Main Runner/Connect Space Bar	1,4/m²	1,4/m²
5	Connect Hook	3/panel	3/panel
6	Connect Distance Ds (included in Level change Ds kit)	1/panel	1/panel
7	Connect level clip Ds (included in Level change Ds kit)	1/panel	1/panel
8	Connect Spiral anchor	1/panel	1/panel
9	Connect Lcoupling	1/row of Main	unner HD
10	Connect Installation screw BR	as required	as required
11	Connect Adjustable hanger, installed at 1200 mm centres (max. distance from wall 600 mm)	0,7/m²	0,7/m²
12	Connect Hanger Clip (not to be used in swimming hall environments)	0,7/m²	0,7/m²
13		as required	as required
14	Connect Wall Bracket for T-profiles	1/suspended ro	w of Main runner
15	Connect Angle trim 15/22, fixed at 300 mm centres	as required	as required
	Δ Min. overall depth of system: Δ 1=165 mm and Δ 2=80 mm from upper level		-
	δ Min. demounting depth: Individual ceiling tiles are non-demountable		-
	Dimension: c=600 mm, h<530 mm		





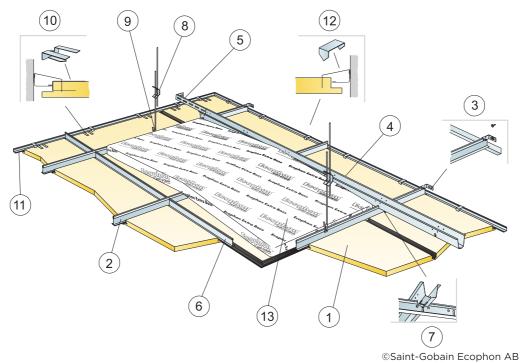




Distance between Focus Lo tiles

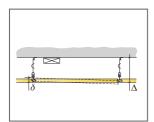
Size, mm 600x600x20	Max live load (N) 0	Min load bearing capacity (N) 160
1200x600x20	0	160

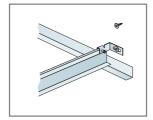
Live load/load bearing capacity

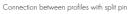


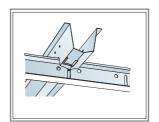
	©Saint-Gobain Ecophor
IANITITY SPECIFICATION (EYOL VA/ASTAGE)	

		Size, mm	
		600×600	1200×600
1	Focus Ds	2,8/m²	1,4/m²
2	Connect T24 Main runner HD, installed at 600 mm centres	1,7m/m²	1,7m/m²
3	Connect Wall Bracket for T-profiles	1/suspended rov	v of Main runner
4	Connect Space Bar, installed at 1,500 mm centres (max. distance from wall 300 mm)	0,7m/m²	0,7m/m²
5	Connect Wall Bracket, L=700 mm, for Connect Space Bar	1/row of Space	bar
6	Connect T24 Cross tee, L=600 mm	2/row of Main ru	unner HD
7	Connect Space Bar Winch, installed one per joint Connect Main Runner/Connect Space Bar	1,4/m²	1,4/m²
8	Connect Adjustable hanger, installed at 1200 mm centres (max. distance from wall 600 mm)	0,7/m²	0,7/m²
9	Connect Hanger Clip (not to be used in swimming hall environments)	0,7/m²	0,7/m²
10	Connect Support clip Dg20	1/300-400mm c	on any cut edge
11	Connect Angle trim black, (fixed at 300 mm centres)	as required	as required
12	Connect Perimeter tile clip	1/300-400mm c	on any cut edge
13	Extra Bass (1200x600x50 mm)	0,7/m²	0,7/m²
	Δ Min. overall depth of system: 115 mm		-
	δ Min. demounting depth: 30 mm		









Size, mm	Max live load (N)	Min load bearing capacity (N)
600x600x20	50	160
1200x600x20	50	160

Live load/load bearing capacity



Ecophon FocusTM Dg

Ecophon Focus[™] Dg conceals the supporting tile edges and creates a distinctive floating appearance. Tiles are easily demountable even in areas where there is a very small overall depth of system. For applications where a unique demountable suspended ceiling is required.



SYSTEM RANGE



Size, mm	600x600	1200x600	1200×1200	XL 1600x600	XL 1800x600	XL 2000x600	XL 2400x600
T24	•	•	•	•	•	•	•
Thickness (THK)	20	20	25	20	20	20	20
Inst. Diagr.	M202	M202	M203	M204	M204	M204	M204









Focus Dg system



Focus Dg with Connect Angle trim Ultra matt black

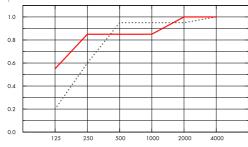
Acoustic



Sound Absorption:

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

 $lpha_{\scriptscriptstyle D}$, Practical sound absorption coefficient



Frequency Hz

- ···· 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

THK	o.d.s. mm		$lpha_{p'}$ Pr	actical sound	d absorption c	coefficient		α	$lpha_{_{ m W}}$ Sound absorption class	
mm	O.u.s. IIIIII	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	o. _w	Sound absorption class	
20	65	0.20	0.60	0.95	0.95	0.95	1.00	0.90	А	
20	200	0.55	0.85	0.85	0.85	1.00	1.00	0.90	А	

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

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



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



Environmental Footprint

kg CO2 equiv/m²		Life-cycle stages A1 to C4 from EPD, in conformity with ISO 14025 / EN 15804
Focus Dg	4,20	— 14023 / EIN 13604



Circularity

Minimum post-consumer recycled content	59%
Recyclability	Fully recyclable



Fire safety

Country	Fire standard	Class	The glass wool core of the tiles is tested and classified as non-combustible according to EN ISO 1182.
Europe	EN 13501-1	A2-s1,d0	non-combustible according to £14 150 1162.



Humidity Resistance

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



Visual appearance

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



Cleanability

Daily dusting and vacuum cleaning. Weekly wet wiping.



Accessibility

The tiles 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 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 EN 13964:2014. CE marked construction products are covered by a Declaration of Performance (DOP) which enables customers and users to easily compare performance of products available on the European market.

Indoor Air Quality



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

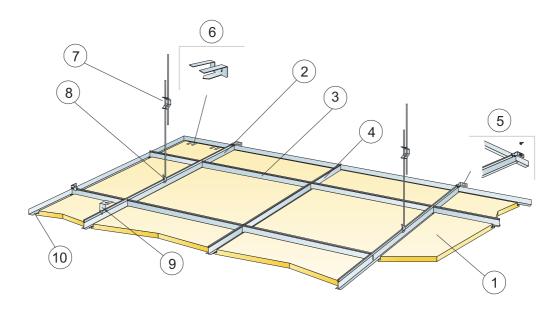






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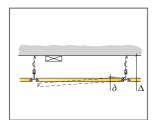
Ecophon Focus™ Dg, 2024-04-24

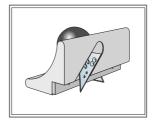


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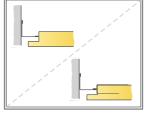
QUANTITY SPECIFICATION (EXCL. WASTAGE)

	Size, mm	
	600x600	1200x600
1 Focus Dg	2,8/m²	1,4/m²
2 Connect T24 Main runner HD, installed at 1200 mm centres (max. distance from wall 600 mm, can be extended up to 1200 mm if no live load between Mair runner and wall).	n 0,9m/m²	0,9m/m²
3 Connect T24 Cross tee, L=1200 mm, installed at 600 mm centres	1,7m/m²	1,7m/m²
4 Connect T24 Cross tee, L=600 mm	0,9m/m²	-
5 Connect Wall Bracket for T-profiles	1/suspended ro	w of Main runner
Connect Support clip Dg20	1/300-400mm	on any cut edge
Connect Adjustable hanger, installed at 1200 mm centres (max. distance from wall 600 mm)	0,7/m²	0,7/m²
Connect Hanger Clip (not to be used in swimming hall environments)	0,7/m²	0,7/m²
For direct installation: Connect Direct Bracket, installed at 1 200 mm centres	0,7/m²	0,7/m²
O Connect Angle trim, fixed at 300 mm centres	as required	as required
Δ Min. overall depth of system, with Adjustable hanger: 115 mm, with Direct bracket: 65 mm	-	-
δ Min. demounting depth: 30 mm	-	-
For luminaire integration in panels use Connect Bridging		





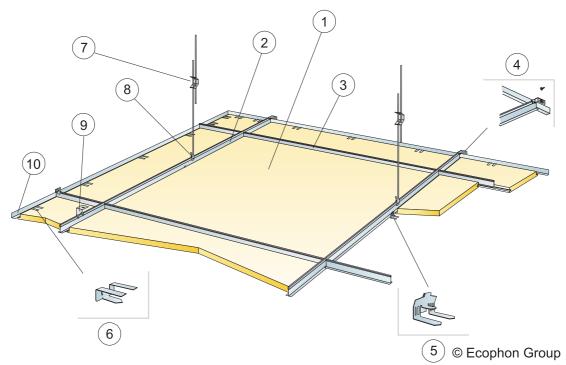
Нож для подрезки кромки Dg



Cut edge with and without support clip

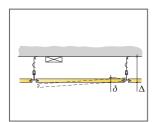
Max live load (N) 50	Min load bearing capacity (N) 160
50	160
	load (N) 50

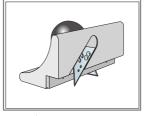
Live load/load bearing capacity



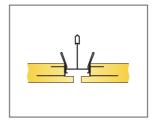
QUANTITY	SPECIFICATION (E)	XCL. WASTAGE)
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		Size, mm
		1200×1200
1	Focus Dg	0,7/m²
2	Connect T24 Main runner HD, installed at 1200 mm centres (max. distance from wall 600 mm, can be extended up to 1200 mm if no live load between Main runner wall).	and0,9m/m²
3	Connect T24 Cross tee, L=1200 mm, installed at 1200 mm centres	0,9m/m²
4	Connect Wall Bracket for T-profiles	1/suspended row of Main runner
5	Connect Edge clip	1,4/m²
6	Connect Support clip DG25	1/300-400mm on any cut edge
7	Connect Adjustable hanger, installed at 1200 mm centres (max. distance from wall 600 mm)	0,7/m²
8	Connect Hanger Clip (not to be used in swimming hall environments)	0,7/m²
9	For direct installation: Connect Direct Bracket, installed at 1200 mm centres	0,7/m²
10	Connect Angle trim, fixed at 300 mm centres	as required
	Δ Min. overall depth of system, with Adjustable hanger: 115 mm, with Direct bracket: 65 mm	
	δ Min. demounting depth: 30 mm	
	For luminaire integration in panels use Connect Bridging	
_		





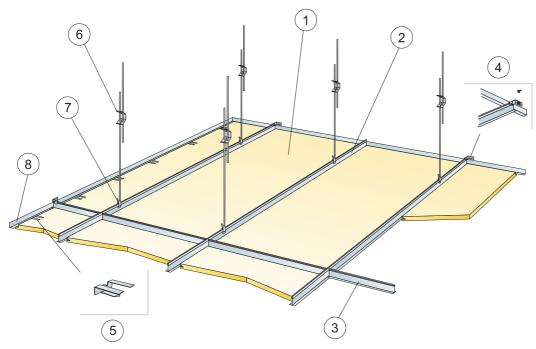




Joint between two unsupported edges with Edge clip



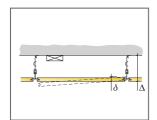
Live load/load bearing capacity

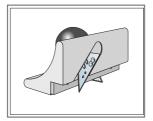


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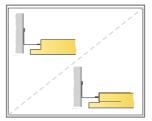
QUANTITY SPECIFICATION (EXCL. WASTAGE)

	Size, mm			
	1600×600	1800×600	2000×600	2400×600
7 Focus Dg XL	1,05/m²	0,95/m²	0,85/m²	0,7/m²
2 Connect T24 Main runner HD, installed at 600 mm centres	1,7m/m²	1,7m/m²	1,7m/m²	1,7m/m²
3 Connect T24 Cross tee, L=600 mm	0,65m/m²	0,6m/m²	0,5m/m ²	0,45m/m²
4 Connect Wall Bracket for T-profiles	1/suspended ro	w of Main runner		
5 Connect Support clip Dg20	1pc/300-400 m	nm on every cut perim	eter tile with only 1 su	pporting edge
5 Connect Adjustable hanger, installed at 1500 mm centres (max. distance from wall 450 mm)	1,1/m²	1,1/m²	1,1/m²	1,1/m²
7 Connect Hanger clip	1,1/m²	1,1/m²	1,1/m²	1,1/m²
Connect Angle trim, fixed at 300 mm centres	as required	as required	as required	as required
Δ Min. overall depth of system: 115 mm	-	-	-	-
δ Min. demounting depth: 30 mm		-	-	





Cutting tool Dg



Cut edge with and without support clip

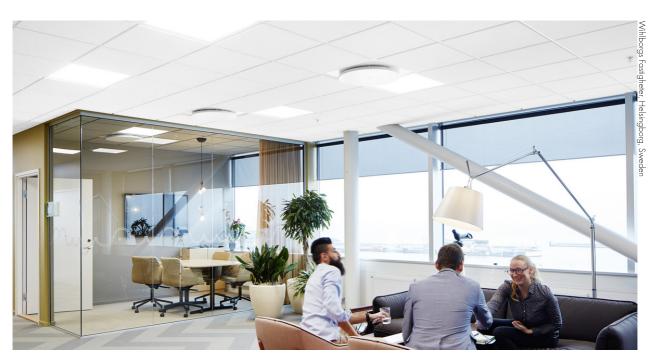
Size, mm	Max live load (N)	Min load bearing capacity (N)
1600x600x20	50	160
1800x600x20	50	160
2000x600x20	50	160
2400x600x20	50	160

Live load/load bearing capacity



Ecophon FocusTM E

Ecophon Focus™ E has a recessed visible grid and a tegular edge, creating a ceiling with a shadow effect that accentuates each tile and partially conceals the grid. For applications where an attractive suspended ceiling is required and easy removal of individual tiles is essential.



SYSTEM RANGE



Size, mm			
	600x600	1200x600	1200x1200
Connect T15	•	•	•
Connect T24	•	•	•
Thickness (THK)	20	20	20
Inst. Diagr.	M12	M12	M12

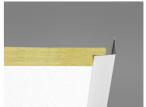








Focus E system



Focus E with Connect Angle trim

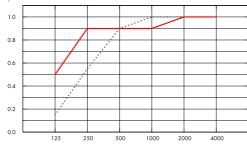
Acoustic



Sound Absorption:

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

 $lpha_{\scriptscriptstyle D}$, Practical sound absorption coefficient



Frequency Hz

- ··· Focus E 20 mm, 60 mm o.d.s.
- Focus E 20 mm, 200 mm o.d.s.
- o.d.s = overall depth of system

THK	o.d.s. mm	$lpha_{ m p'}$ Practical sound absorption coefficient					$\alpha_{_{\scriptscriptstyle{ m W}}}$	Sound absorption class	
mm	0.u.s. IIIIII	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	o. _w	Sound absorption class
20	60	0.15	0.55	0.90	1.00	1.00	1.00	0.85	В
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	AC(1.5)	D_{nfw}	CAC dB
mm	Articulation Class, ASTM E1111, ASTM E1110	Weighted normalized flanking level difference, ISO 10848-2	Ceiling Attenuation Class, ASTM 1414, ASTM E413
20	180	22	23

Indoor Air Quality









Material Health



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



Cradle to Cradle Certified®



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



Environmental Footprint



	kg CO2 equiv/m²	Life-cycle stages A1 to C4 from EPD, in conformity with ISO 14025 / EN 15804
Focus E	3,66	14023 / LIN 13004



Circularity

Minimum post-consumer recycled content	55%
Recyclability	Fully recyclable



Fire safety

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



Humidity Resistance

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



Visual appearance

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



Cleanability

Daily dusting and vacuum cleaning. Weekly wet wiping.



Accessibility

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



Installation

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



System weight

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



Mechanical properties

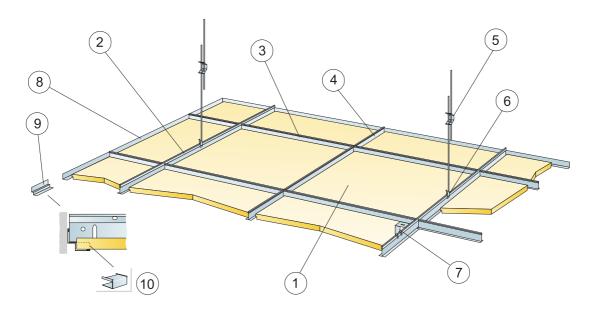
See table about Max live load and Min load bearing capacity and Functional demands, Mechanical properties at www.ecophon.com.

CE



Ecophon ceiling systems are CE marked according to the European harmonized standard EN 13964:2014. CE marked construction products are covered by a Declaration of Performance (DOP) which enables customers and users to easily compare performance of products available on the European market.

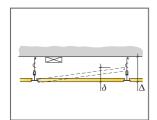
© Saint-Gobain Ecophon AB Ecophon FocusTM E, 2024-04-24

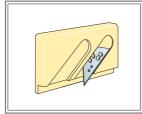


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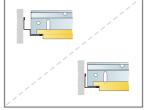
QUANTITY SPECIFICATION (EXCL. WASTAGE)

	Size, mm	Size, mm		
	600x600	1200×600	1200×1200	
Focus E T24 or T15	2,8/m²	1,4/m²	0,7/m²	
2 Connect T24 or T15 Main runner, installed at 1200 mm centres (max. distance from wall 600 mm, can be extended up to 1200 mm if no live load between Main runner and wall).	0,9m/m²	0,9m/m²	0,9m/m²	
3 Connect T24 or T15 Cross tee, L=1200 mm	1,7m/m²	1,7m/m²	0,9m/m²	
4 Connect T24 or T15 Cross tee, L=600 mm	0,9m/m²	-	-	
5 Connect Adjustable hanger, installed at 1200 mm centres (max. distance from wall 600 mm)	0,7/m²	0,7/m²	0,7/m²	
5 Connect Hanger Clip (not to be used in swimming hall environments)	0,7/m²	0,7/m²	0,7/m²	
7 For direct installation: Connect Direct Bracket, installed at 1 200 mm centres	0,7/m²	0,7/m²	0,7/m²	
3 Connect Angle trim, fixed at 300 mm centres	as required	as required	as required	
Connect Shadow-line trim, fixed at 300 mm centres	as required	as required	as required	
10 Connect E-plug (for Shadow-line trim)	as required	as required	as required	
Δ Min. overall depth of system, with adjustable hanger: 110 mm, with direct bracket: 60 mm	-		-	
δ Min. demounting depth: 120 mm, (1200x1200 mm, T15: 160 mm)	-		-	
For luminaire integration in panels use Connect Bridging	-		-	









Tegular rebate with angle trim and T-profile on foot of shadow-line trim.

Size, mm 600x600x20	Max live load (N) 50	Min load bearing capacity (N) 160
1200x600x20	50	160
1200x1200x20	50	160

Live load/load bearing capacity

© Saint-Gobain Ecophon AB



Ecophon FocusTM F

Ecophon Focus™ F installs directly to an existing plaster ceiling, boarding, battens or concrete, to create a ceiling with a smooth appearance. For applications requiring a ceiling mechanically secured to the structural soffit.



SYSTEM RANGE



Size, mm	600x600	1200x600
Direct	•	•
Thickness (THK)	20	20
Inst. Diagr.	M15	M15









Focus F tile

Section of Focus F system

Focus F system

Focus F is installed by screw fixing

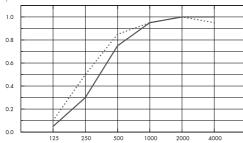
Acoustic



Sound Absorption:

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

 $lpha_{\scriptscriptstyle D}$, 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

Frequency Hz

THK mm	o.d.s. mm		$lpha_{p'}$ Pr	actical sound	d absorption c	coefficient		$\alpha_{\scriptscriptstyle{W}}$	Sound absorption class
	0.u.s. IIIIII	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	$\omega_{\rm w}$	Sound absorption class
20	20	0.05	0.30	0.75	0.95	1.00	1.00	0.60	С
20	40	0.10	0.50	0.85	0.95	1.00	0.95	0.80	В

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

Indoor Air Quality











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 CertificateTM at the Silver level (standard version 4.0). The C2C Certified Material Health CertificateTM 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.

© Saint-Gobain Ecophon AB Ecophon FocusTM F, 2024-04-24



Environmental Footprint

kg CO2 equiv/m²		Life-cycle stages A1 to C4 from EPD, in conformity with IS 14025 / EN 15804		
Focus F	4,90	- 14023 / EIN 13604		



Circularity

Minimum post-consumer recycled content	59%
Recyclability	Fully recyclable



Fire safety

Country	Fire standard	Class	The glass wool core of the tiles is tested and classified as non-combustible according to EN ISO 1182.
Europe	EN 13501-1	A2-s1,d0	non-combustible according to £14 150 1 162.



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/m 2



Mechanical properties

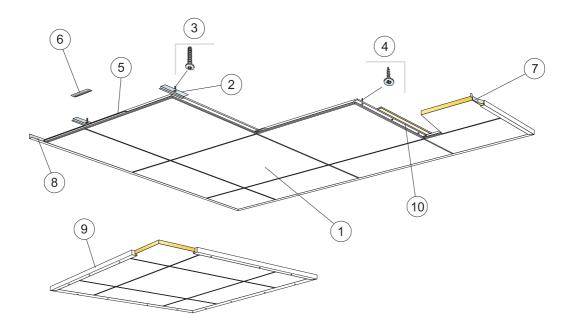
Additional live load has to be fixed to the soffit.



CE

Ecophon ceiling systems are CE marked according to the European harmonized standard EN 13964:2014. CE marked construction products are covered by a Declaration of Performance (DOP) which enables customers and users to easily compare performance of products available on the European market.

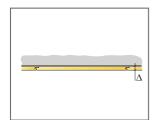
© Saint-Gobain Ecophon AB Ecophon FocusTM F, 2024-04-24

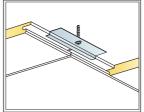


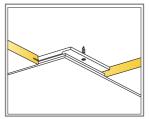
© Ecophon Group

QUANTITY SPECIFICATION (EXCL. WASTAGE)

		Size, mm	
		600×600	1200×600
1	Focus F	2,8/m²	1,4/m²
2	Connect Direct fixing plate, installed at 600 mm centres (for use in concrete)	2,8/m²	2,8/m²
3	Connect Anchor screw, installed at 600 mm centres (for use in concrete)	2,8/m²	2,8/m²
4	Connect Installation screw MVL [for use in plasterboard or timber]	8,3/m²	7/m²
5	Connect Spline F, L=600 mm. Must be used in Sweden, Denmark, Norway and Finland at fireclass 'Tändskyddande beklädnad'	2,8/m²	1,4/m²
6	Connect Spline, L=150 mm	2,8/m²	1,4/m²
7	Connect Wall spring spacer	1/panel in the last row	2/panel in the last row
8	Connect Angle trim, fixed at 300 mm centres	as required	as required
9	For use when installing floating ceilings: Connect Wood trim, L=2500 mm, fixed at 500 mm centres	as required	as required
10	Timber installed at 600 mm centres (300 mm if thermal insulation is placed above), with the screw fixings along the timber.	as required	as required
	Δ Min. overall depth of system: 20 mm	-	-
	δ Min. demounting depth: The system is not demountable	-	-









Installation in concrete Installation in plasterboard or timber

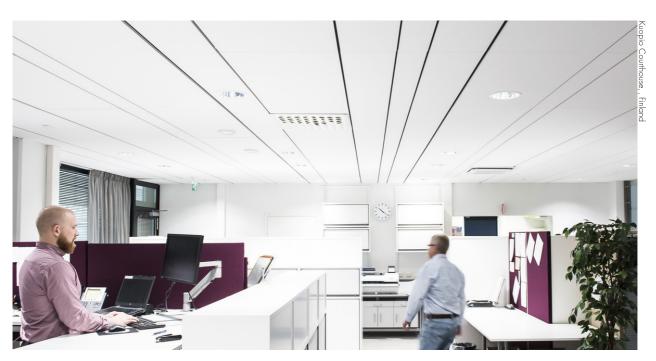
Live load/load bearing capacity

© Saint-Gobain Ecophon AB



Ecophon Focus™ Lp

Ecophon Focus™ Lp has a semi-concealed grid system used for highlighting direction in a room. Features a wide gap between tiles in the emphasised direction and a narrow gap in the other. The system consists of standard Focus™ Lp tiles and Focus™ Lp Technical tiles.



SYSTEM RANGE



Size, mm	600x150	600×300	600x600	1200x150	1200x300	1200x600	XL 1800x600
T24	•	•	•	•	•	•	•
Thickness (THK)	20	20	20	20	20	20	20
Inst. Diagr.	M391	M390, M391	M390, M391	M391	M390, M391	M390, M391	M392







Section of Focus Lp system with Connect T24 Main runner





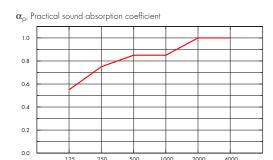
Demounting of tile

Acoustic



Sound Absorption:

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



Focus Lp 20 mm, 200 mm o.d.s.o.d.s = overall depth of system

Frequency Hz

THK	o.d.s. mm		$lpha_{p'}$ Pr	$\alpha_{p_{\ell}}$ Practical sound absorption coefficient				$\alpha_{\scriptscriptstyle{W}}$	Sound absorption class	
mm	0.0.3. 111111	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	o.w	Sound absorption class	
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	AC(1.5)	D _{nfw}	CAC dB
mm	Articulation Class, ASTM E1111, ASTM E1110	Weighted normalized flanking level difference, ISO 10848-2	Ceiling Attenuation Class, ASTM 1414, ASTM E413
20	180	24	25

Indoor Air Quality



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









Cradle to Cradle Certified®



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



Material Health

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



Environmental Footprint

	kg CO2 equiv/m²	Life-cycle stages A1 to C4 from EPD, in conformity with ISO 14025 / EN 15804
Focus Lp	4,66	- 14023 / EIN 13004



Circularity

Minimum post-consumer recycled content	57%
Recyclability	Fully recyclable



Fire safety

Country	Fire standard	Class	The glass wool core of the tiles is tested and classified as non-combustible according to EN ISO 1182.
Europe	EN 13501-1	A2-s1,d0	non-combustible according to ETV 130-1 162.



Humidity Resistance

Class C, relative humidity 95% and 30 $^{\circ}$ 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.



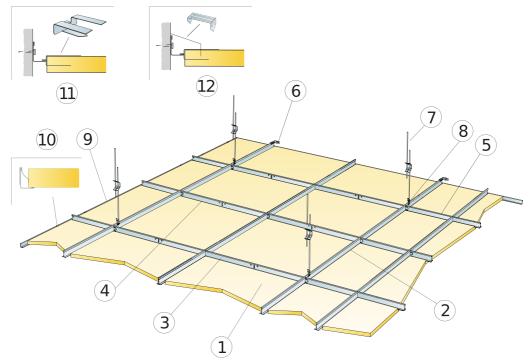
Mechanical properties

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 HD per 1200 mm. This gives a total load bearing capacity of 200 N for a load evenly distributed on two Main runners.

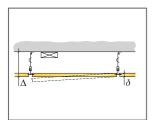
CE

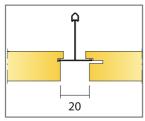


Ecophon ceiling systems are CE marked according to the European harmonized standard EN 13964:2014. CE marked construction products are covered by a Declaration of Performance (DOP) which enables customers and users to easily compare performance of products available on the European market.

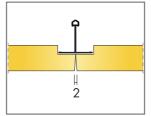


		Size, mm			
		600×300	600×600	1200×300	1200×600
1	Focus Lp	5,6/m²	2,8/m²	2,8/m²	1,4/m²
2	Connect T24 Main runner, installed at 1200 mm centres (max distance from wall 600 mm)	0,9m/m ²	0,9m/m ²	0,9m/m²	0,9m/m²
3	Connect T24 Cross tee L=1200 mm	3,4m/m ²	1,7m/m²	3,4m/m²	1,7m/m²
4	Connect T24 Cross tee, L=600 mm	-	0,9m/m²	-	
5	Connect T24 Cross tee, L=300 mm	0,9m/m²	-	-	-
6	Connect Wall Bracket for T-profiles	1/suspended row of Main rur	ner		
7	Connect Adjustable hanger, installed at 1200 mm centres (max. distance from wall 600 mm)	0,7/m²	0,7/m²	0,7/m²	0,7/m²
8	Connect Hanger Clip (not to be used in swimming hall environments)	0,7/m²	0,7/m²	0,7/m²	0,7/m²
9	Connect Angle trim, fixed at 300 mm centres	as required	as required	as required	as required
10	Connect Wall spring	2 pcs/on every cut perimeter	ile with only 1 supporting edge		
11	Connect Support clip Dg20	2per perimeter tile, cut on the long side	2per perimeter tile, cut on the long side	3per perimeter tile, cut on the long side	3per perimeter tile, cut on the long side
12	Connect Perimeter tile clip	1/300-400mm on any cut ed	ge		
	Δ Min. overall depth of system: 115 mm		-		-
	δ Min. demounting depth: 20 mm	-			
	For luminaire integration in panels use Connect Bridging		-	-	-







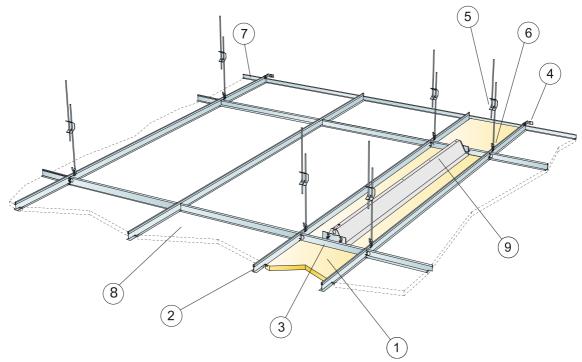


Non-supported edges meeting with space for cross-tee.

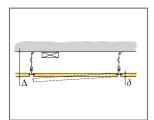
Size, mm	Max live load (N)	Min load bearing capacity (N)
600x300x20	30	160
600x600x20	30	160
1200x300x20	30	160
1200x600x20	30	160

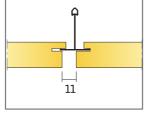
Live load/load bearing capacity

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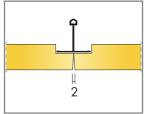


	Size, mm					
	600×150	600×300	600×600	1200×150	1200×300	1200×600
1 Focus Lp Technical tile	11,1/m²	5,6/m²	2,8/m²	5,6/m²	2,8/m²	1,4/m²
2 Connect T24 Main runner	6,7m/m²	3,35m/m ²	1,7m/m²	6,7m/m²	3,35m/m ²	1,7m/m²
3 Connect T24 Cross tee, L=150/300/600 mm	1,7m/m²	1,7m/m²	1,7m/m²	0,85m/m²	0,85m/m ²	0,85m/m ²
4 Connect Wall Bracket for T-profiles	1/suspended ro	w of Main runner				
5 Connect Adjustable hanger, installed at 1200 mm centres (max. distance from wall 600 mm)	5,6/m²	2,8/m²	1,4/m²	5,6/m²	2,8/m²	1,4/m²
Connect Hanger clip	5,6/m²	2,8/m²	1,4/m²	5,6/m²	2,8/m²	1,4/m²
Connect Angle trim, fixed at 300 mm centres	as required	as required	as required	as required	as required	as required
3 Focus Lp (adjacent ceiling)	-	-	-	-	-	-
9 Ecophon line Lp		-	-		-	
Δ Min. overall depth of system: 105 mm [190 mm when using Connect Space bar connector]	-	-	-	-	-	-
δ Min. demounting depth: 20 mm						
For luminaire integration in panels use Connect Bridging		-	-			
The area in quantity specification for M279 refers to the installation area between the two suspended Main runners. Maximum two rows of Technico tiles can be installed next to each other.	- il	-	-	-	-	-
For luminaire integration in panels use Connect Bridging				-		





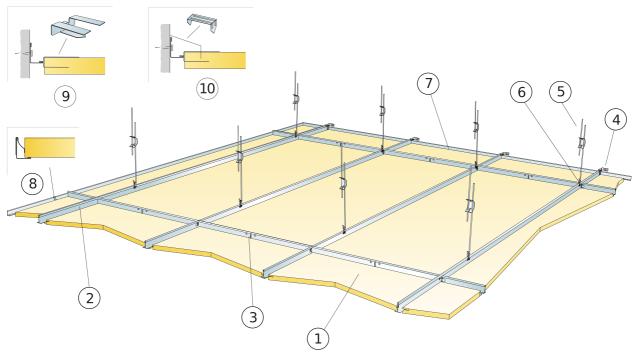
Distance between Focus Lp and Focus Lp Technical tile



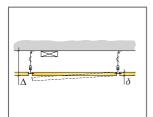
Non-supported edges meeting with space for cross-tee.

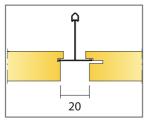
Size, mm	Max live load (N)	Min load bearing capacity (N)
600x150x20	50	160
600x300x20	50	160
600x600x20	50	160
1200x150x20	50	160
1200x300x20	50	160
1200x600x20	50	160

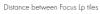
Live load/load bearing capacity

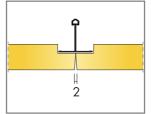


		Size, mm
		1800×600
1	Focus Lp	0,95/m²
2	Connect T24 Main runner, installed at 600 mm centres	1,7m/m²
3	Connect T24 Cross tee, L=600 mm	0,6m/m²
4	Connect Wall Bracket for T-profiles	1/suspended row of Main runner
5	Connect Adjustable hanger, installed at 1500 mm centres (max. distance from wall 450 mm)	1,1/m²
6	Connect Hanger Clip (not to be used in swimming hall environments)	0,7/m²
7	Connect Angle trim, fixed at 300 mm centres	as required
8	Connect Wall spring	3pcs/on every cut perimeter tile with only 1 supporting edge
9	Connect Support clip Dg20	4per perimeter tile, cut on the long side
10	Connect Perimeter tile clip	1/300-400mm on any cut edge
	Δ Min. overall depth of system: 115 mm	
	δ Min. demounting depth: 20 mm	
	For luminaire integration in panels use Connect Bridging	









Non-supported edges meeting with space for cross-tee.

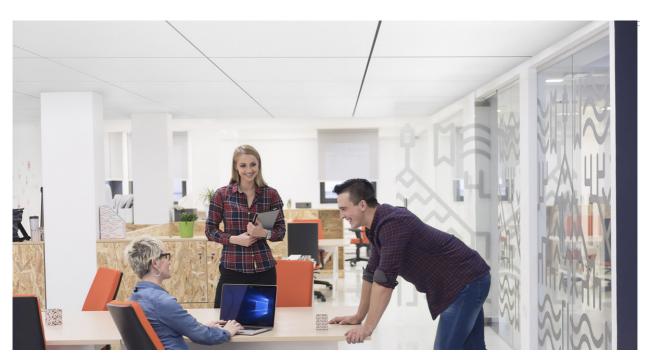


Live load/load bearing capacity



Ecophon Focus™ SQ

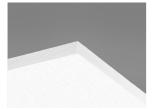
Ecophon Focus™ SQ bonds directly to the soffit surface. Tiles are installed with a gap between each tile, creating a ceiling with a smooth appearance. For applications where the minimum possible overall depth of system is required due to limited space or other reason.



SYSTEM RANGE



Size, mm	600x600	1200x600
Direct	•	•
Thickness (THK)	20	20
Inst. Diagr.	M107	M107







Focus SQ tile

Section of Focus SQ system

Focus SQ system

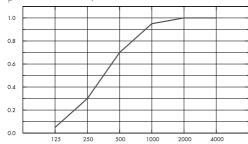
Acoustic



Sound Absorption:

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

 $lpha_{\scriptscriptstyle D}$, Practical sound absorption coefficient



- Focus SQ 20 mm, 23 mm o.d.s. o.d.s = overall depth of system

Frequency Hz

THK	o.d.s. mm	$lpha_{ m p}$, Practical sound absorption coe		pefficient $lpha_{_{ m W}}$		α	Sound absorption class		
mm	0.d.s. IIIIII	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz 4000 Hz	4000 Hz	o. _w	Sound absorption class
20	23	0.05	0.30	0.70	0.95	1.00	1.00	0.60	С

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

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



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

Environmental Footprint

	kg CO2 equiv/m²	Life-cycle stages A1 to C4 from EPD, in conformity with ISO 14025 / EN 15804
Focus SQ	4,88	- 14023 / EIN 13804



Circularity

Minimum post-consumer recycled content	57%
Recyclability	Fully recyclable



Fire safety

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



Humidity Resistance

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



Visual appearance

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



Cleanability

Daily dusting and vacuum cleaning. Weekly wet wiping.



Accessibility



The tiles are not demountable.



Installation

Installed according to installation diagrams, installation guides and drawing aid. For information regarding minimum overall depth of system see quantity specification. 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/m^2



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.

Indoor Air Quality

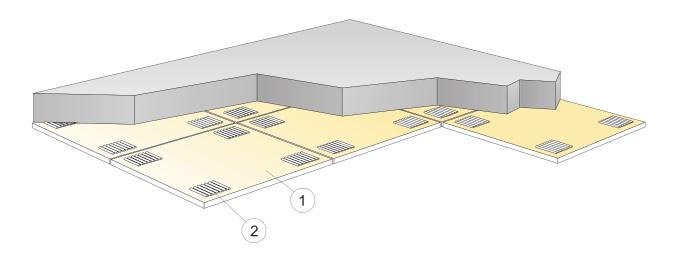


Certificate / Label	All Products
Eurofins Indoor Air Comfort®	IAC Gold
French VOC	A+
Finnish M 1	•





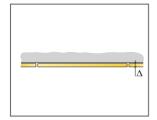


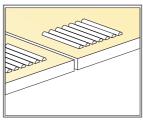


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QUANTITY SPECIFICATION (EXCL. WASTAGE)

		Size, mm	
		600×600	1200×600
1	Focus SQ	2,8/m²	1,4/m²
2	Connect Absorber glue [0,25]/m² - 0,4]/m² depending on installation conditions]	as required	as required
	Use Connect Notched spatula to apply the glue.	-	-
	Δ Min. overall depth of system: 23 mm	-	-
	δ Min. demounting depth: The system is not demountable	-	-
	Cut visible edges should be painted	-	-
	* Panel Module size 600x600 (592x592), 1200x600 (1192x592)	-	-





Application of glue

Size, mm	Max live load (N)	Min load bearing capacity (N)
600x600x20	-	=
1200x600x20		-

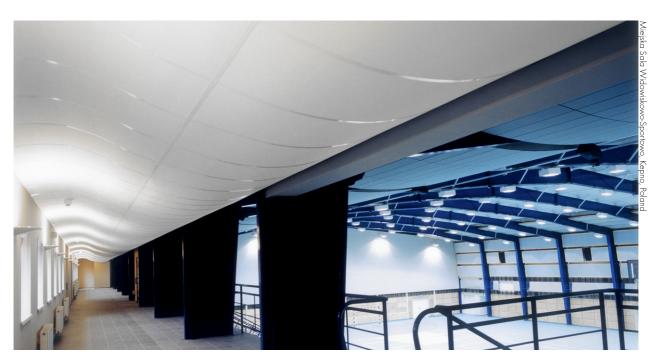
Live load/load bearing capacity

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Ecophon FocusTM Flexiform A

Ecophon Focus™ Flexiform A panels are delivered flat and formed on site into concave or convex form by means of special profiles. Ideal for creating surfaces with special curvatures, or if the dimensions of the installations above the suspended ceiling cannot be accommodated.



SYSTEM RANGE



Size, mm	1200x600	1600x600	2000x600	2400x600
T24	•	•	•	•
Thickness (THK)	30	30	30	30
Inst. Diagr.	M31, M31ec, M31ic	M31, M31ec, M31ic	M31, M31ec, M31ic	M31, M31ec, M31ic







Section of Focus Flexiform A system with Connect T24



Focus Flexiform A system

Acoustic

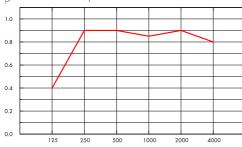


Acoustic values corresponding to a flat ceiling.

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.





Focus Flexiform A 30 mm, 200 mm o.d.s.o.d.s = overall depth of system

Frequency Hz

THK	o.d.s. mm		$lpha_{p'}$ Pr	actical sound	d absorption c	coefficient		$\alpha_{\scriptscriptstyle{W}}$	Sound absorption class
mm	n 0.0.3. IIIII	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	o.w	Journal absorption class
30	200	0.40	0.90	0.90	0.85	0.90	0.80	0.90	А

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

Indoor Air Quality









Environmental Footprint



	•	
	kg CO2 equiv/m²	Life-cycle stages A1 to C4 from EPD, in conformity with ISO
Focus Flexiform A	3,1	14025 / EN 15804



Circularity

Minimum post-consumer recycled content	39%
Recyclability	Fully recyclable



Fire safety

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



Humidity Resistance

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



Visual appearance

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



Cleanability

Daily dusting and vacuum cleaning. Weekly wet wiping.



Accessibility

The tiles are not demountable.



Installation

Installed according to installation diagrams, installation guides and drawing aid. (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.



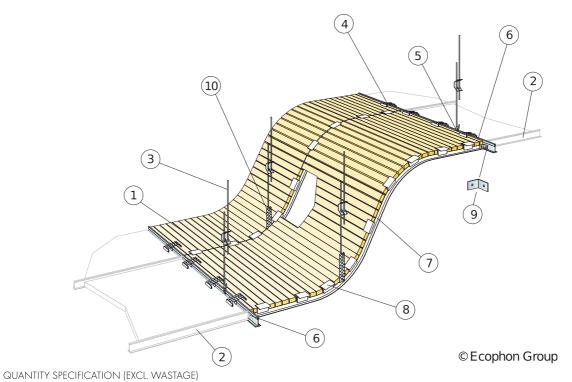
Mechanical properties

Additional live load has to be fixed to the soffit.

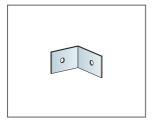


CE

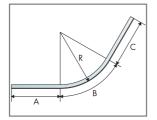
Ecophon ceiling systems are CE marked according to the European harmonized standard EN13964:2014. CE marked construction products are covered by a Declaration of Performance (DOP) which enables customers and users to easily compare performance of products available on the European market.



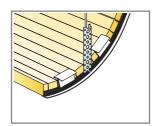
	Size, mm			
	1200×600	1600×600	2000×600	2400×600
7 Focus Flexiform A	as required	as required	as required	as required
2 Connect T24 Cross tee (adjacent ceiling)	as required	as required	as required	as required
3 Connect Adjustable hanger, installed at 1200 mm centres	as required	as required	as required	as required
4 Connect Clip 100/20	as required	as required	as required	as required
5 Connect Hanger clip	as required	as required	as required	as required
Connect T24 Main runner	1,8m/m ²	-	-	-
Connect Flexiform profile/Flexible Flexiform profile, installed at 600 mm centres.	as required	as required	as required	as required
Connect Flexiform clip, fixed at 100-300 mm (depending on the radius of curve)	as required	as required	as required	as required
Connect Angle bracket	as required	as required	as required	as required
O Perforated strip (not supplied by Ecophon)	as required	as required	as required	as required
Flexiform profile: Radius of curve (concave or convex) min 200 mm.	-		-	-
Length of flexiform profile: max 2400 mm. When Flexiform profiles are longer than 1 m, intermidiate suspensions are required.	-	-	-	-







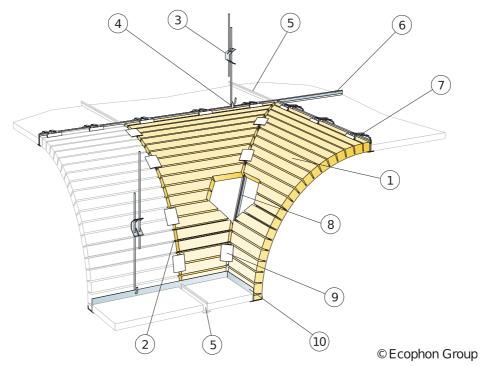
Example with dimensions of Flexiform profile $% {\displaystyle\int\limits_{i=1}^{\infty }} {{\left| {{\mathbf{F}}_{i}}\right|}} d\mathbf{r}_{i}^{2}d\mathbf{r}_{i}^{2}$



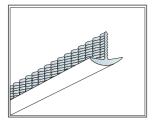
Suspension with metal strip

Size, mm	Max live load (N)	Min load bearing capacity (N)
1200x600x30	0	160
1600x600x30	0	160
2000x600x30	0	160
2400x600x30	0	160

Live load/load bearing capacity



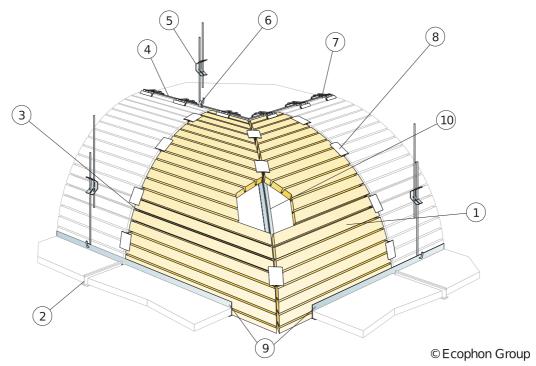
		Size, mm			
		1200×600	1600×600	2000×600	2400×600
1 Fo	ocus Flexiform A	as required	as required	as required	as required
2 C	onnect Flexiform profile/Flexible Flexiform profile, installed at 600 mm centres.	as required	as required	as required	as required
3 C	ionnect Adjustable hanger, installed at 1200 mm centres	as required	as required	as required	as required
4 C	ionnect Hanger clip	as required	as required	as required	as required
5 C	ionnect T24 Cross tee (adjacent ceiling)	as required	as required	as required	as required
6 C	ionnect T24 Main runner	1,8m/m ²	-	-	-
7 C	ionnect Clip 100/20	as required	as required	as required	as required
8 C	ionnect Flexible external corner profile	as required	as required	as required	as required
9 C	onnect Flexiform clip, fixed at 100-300 mm (depending on the radius of curve)	as required	as required	as required	as required
10 C	ionnect F-trim F	as required	as required	as required	as required
FI	exiform profile: Radius of curve (concave or convex) min 200 mm.		-	-	-
	ength of flexiform profile: max 2400 mm. When Flexiform profiles are longer than 1 m, intermidiate suspensions are quired.	-	-	-	-



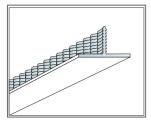
Profile for external corner

Size, mm	Max live load (N)	Min load bearing capacity (N)
1200x600x30	0	160
1600x600x30	0	160
2000x600x30	0	160
2400x600x30	0	160

Live load/load bearing capacity



	Size, mm	Size, mm			
	1200×600	1600×600	2000×600	2400×600	
Tocus Flexiform A	as required	as required	as required	as required	
2 Connect T24 Cross tee (adjacent ceiling)	as required	as required	as required	as required	
Connect Flexiform profile/Flexible Flexiform profile, installed at 600 mm centres.	as required	as required	as required	as required	
4 Connect T24 Main runner	1,8m/m ²	-	-	-	
5 Connect Adjustable hanger, installed at 1200 mm centres	as required	as required	as required	as required	
5 Connect Hanger clip	as required	as required	as required	as required	
7 Connect Clip 100/20	as required	as required	as required	as required	
Connect Flexiform clip, fixed at 100-300 mm (depending on the radius of curve)	as required	as required	as required	as required	
9 Connect F-trim F	as required	as required	as required	as required	
10 Connect Flexiform profile/Flexible Flexiform profile	as required	as required	as required	as required	
Flexiform profile: Radius of curve (concave or convex) min 200 mm.	-	-	-	-	
Length of flexiform profile: max 2400 mm. When Flexiform profiles are longer than 1 m, intermidiate suspensions are required.		-	-		



Profile for internal corner

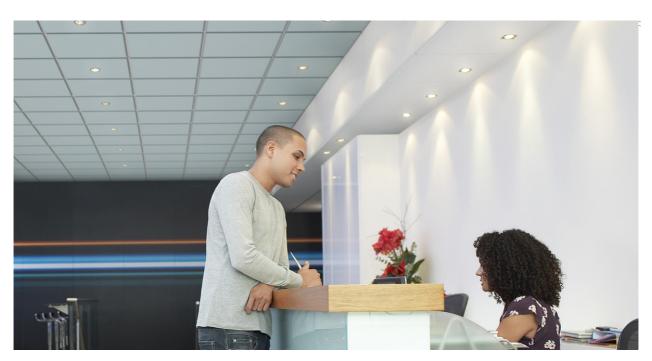
Size, mm	Max live load (N)	Min load bearing capacity (N)
1200x600x30	0	160
1600x600x30	0	160
2000x600x30	0	160
2400x600x30	0	160

Live load/load bearing capacity



Ecophon FocusTM Fixiform E

Ecophon Focus™ Fixiform E creates distinct transitions between different levels of ceiling to accommodate various ceiling service installations or to add shape and structure to the room. Tiles are delivered flat and folded to 90 degrees on site before installation.



SYSTEM RANGE



Size, mm	
	1200x600
T24	•
Thickness (THK)	20
Inst. Diagr.	M276







Detail of Focus Fixiform system fold



Focus Fixfiorm E system



Focus Fixiform E system upper level



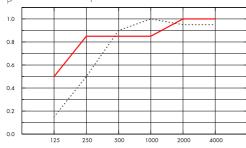
Acoustic

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.

$lpha_{\scriptscriptstyle D}$, Practical sound absorption coefficient



Frequency Hz

- ···· Focus Fixiform E 20 mm, 60 mm o.d.s.
- Focus Fixiform E 20 mm, 200 mm o.d.s.
- o.d.s = overall depth of system

THK	o.d.s. mm		α _{p′} Pr	actical sound	d absorption c	coefficient		$\alpha_{_{\scriptscriptstyle{ m W}}}$	Sound absorption class	
mm '	0.0.5. 111111	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	· · · · · · ·	Sound absorption class	
20	60	0.15	0.50	0.90	1.00	0.95	0.95	0.80	В	
20	200	0.50	0.85	0.85	0.85	1.00	1.00	0.90	А	

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



Indoor Air Quality

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









Circularity

Minimum post-consumer recycled content	57%
Recyclability	Fully recyclable



Fire safety

-		-1
Country	Fire standard	Class
Europe	EN 13501-1	A2-s1,d0

The glass wool core of the tiles is tested and classified as non-combustible according to EN ISO 1182.



Humidity Resistance

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



Visual appearance

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



Cleanability

Daily dusting and vacuum cleaning. Weekly wet wiping.



Accessibility

The 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.



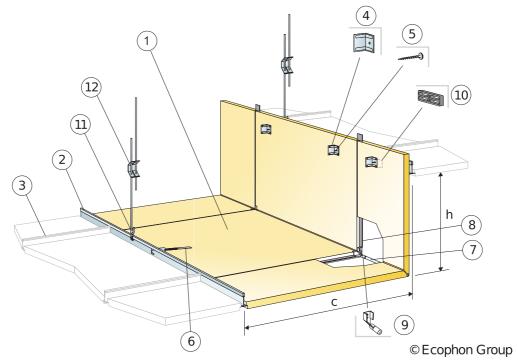
Mechanical properties

Additional live load has to be fixed to the soffit.

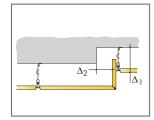


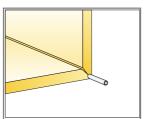
CE

Ecophon ceiling systems are CE marked according to the European harmonized standard EN 13964:2014. CE marked construction products are covered by a Declaration of Performance (DOP) which enables customers and users to easily compare performance of products available on the European market.



		1200x600	
1	Focus Fixiform E (kit)	as required	
2	Connect T24 Main runner	1,8m/m²	
3	Connect T24 Cross tee (adjacent ceiling)	as required	
4	Angle Bracket Fixiform (included in Fixiform kit)	-	
5	Absorber screw metal 50 (included in Fixiform kit)	-	
6	Connect Hook (included in Fixiform kit)	-	
7	Reinforcement rod (included in Fixiform kit)	-	
8	Connect F Spline (included in Fixiform kit)	-	
9	Plug for reinforcement rod (included in Fixiform kit)	-	
10	Distance (included in Fixiform kit)	-	
11	Connect Hanger clip	1 pcs/hanger	
12	Connect Adjustable hanger, installed at 600 mm centres at the level change	1,4/m²	
	Δ Min. overall depth of system: Δ 1=160 mm and Δ 2=80 mm from upper level	-	
	δ Min. demounting depth: Individual ceiling tiles are non-demountable	-	
	Dimension: c=600 mm, h<530 mm	-	





The fold is reinforced by a rod





Upper level connection to Main runner

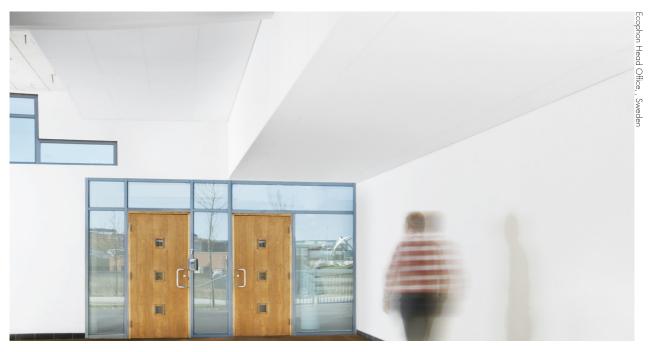


Live load/load bearing capacity



Ecophon FocusTM Fixiform Ds

Ecophon Focus™ Fixiform Ds creates distinct transitions between different ceiling levels to accommodate various ceiling service installations or to offer shape and structure to a room. Tiles are delivered flat and folded to 90 degrees on site before installation.



SYSTEM RANGE



Size, mm	1200x600	XL 1.500x600	XL 1900x600	XL 2300x600
T24	•	•	•	•
Thickness (THK)	20	20	20	20
Inst. Diagr.	M274	M275	M275	M275







Detail of Focus Fixiform system fold



Focus Fixiform Ds system



Focus Fixiform Ds system upper level

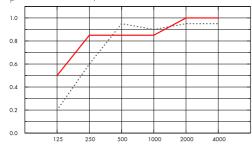
Acoustic

Acoustic values corresponding to a flat ceiling.

Sound Absorption:

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

 $lpha_{\scriptscriptstyle D}$, Practical sound absorption coefficient



- ···· Focus Fixiform Ds 20 mm, 75 mm o.d.s.
- Focus Fixiform Ds 20 mm, 200 mm o.d.s.
- o.d.s = overall depth of system

THK mm	o.d.s. mm	$lpha_{ m p}$, Practical sound absorption coefficient						. α _w	Sound absorption class
		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	· · · · · ·	, Sound absorption class
20	<i>7</i> 5	0.20	0.60	0.95	0.90	0.95	0.95	0.90	А
20	200	0.50	0.85	0.85	0.85	1.00	1.00	0.90	A

Frequency Hz

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



Indoor Air Quality











Circularity

Minimum post-consumer recycled content	57%
Recyclability	Fully recyclable



Fire safety

Country	Fire standard	Class	The glass
Europe	EN 13501-1	A2-s1,d0	non-comb

s wool core of the tiles is tested and classified as bustible according to EN ISO 1182.



Humidity Resistance

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



Visual appearance

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



Cleanability

Daily dusting and vacuum cleaning. Weekly wet wiping.



Accessibility

The 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.

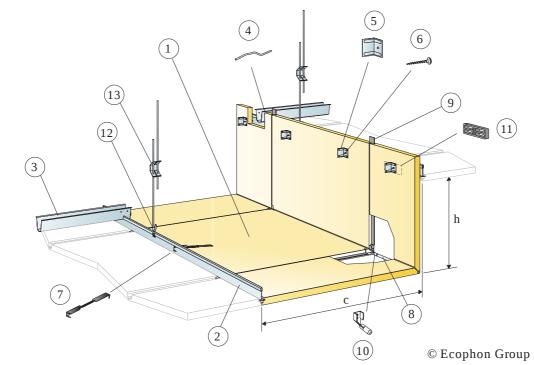


Mechanical properties

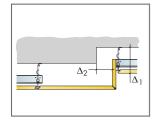
Additional live load has to be fixed to the soffit.

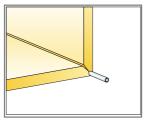


CE

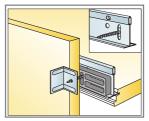


		Size, mm
		1200×600
1	Focus Fixiform Ds (kit)	as required
2	Connect T24 Main runner HD	as required
3	Connect Space bar, installed at 1500 mm centres (max. distance from wall 300 mm)	as required
4	Connect Space bar winch, installed one per joint Main runner/Space bar	as required
5	Angle Bracket Fixiform (included in Fixiform kit)	-
5	Absorber screw metal 50 (included in Fixiform kit)	-
7	Connect Hook (included in Fixiform kit)	-
3	Reinforcement rod (included)	-
	Connect F Spline (included in Fixiform kit)	-
10	Plug for reinforcement rod (included)	-
11	Distance (included in Fixiform kit)	
2	Connect Hanger clip	1 pcs/hanger
3	Connect Adjustable hanger, installed at 600 mm centres at the level change	1,4/m²
	Δ Min. overall depth of system: Δ 1=165 mm and Δ 2=80 mm from upper level	
	δ Min. demounting depth: Individual ceiling tiles are non-demountable	
	Dimension: c=600 mm, h<530 mm	-

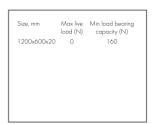




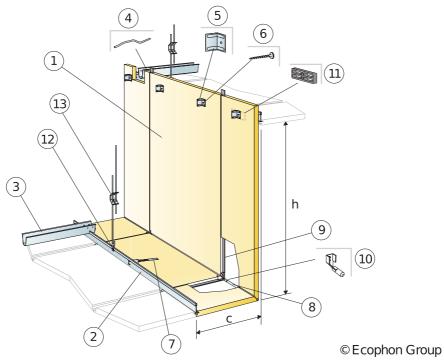




Upper level connection to Main runner

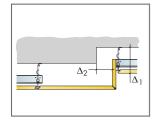


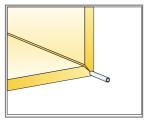
Live load/load bearing capacity



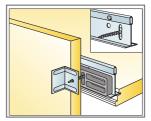
QUANTITY SPECIFICATION (EXCL. WASTAGE)

	Size, mm	Size, mm	
	1500×600	1900×600	2300×600
Focus Fixiform Ds XL (kit)	as required	as required	as required
Connect T24 Main runner HD	as required	as required	as required
Connect Space bar, installed at 1500 mm centres (max. distance from wall 300 mm)	as required	as required	as required
Connect Space bar winch, installed one per joint Main runner/Space bar	as required	as required	as required
Angle Bracket Fixiform (included in Fixiform kit)	-	-	-
Absorber screw metal 50 (included in Fixiform kit)	-	-	-
Connect Hook (included in Fixiform kit)	-	-	-
Reinforcement rod (included in Fixiform kit)	-	-	-
Connect F Spline (included in Fixiform kit)	-	-	-
Plug for reinforcement rod (included in Fixiform kit)	-	-	-
Distance (included in Fixiform kit)	-	-	-
Connect Hanger clip	1 pcs/hanger	1 pcs/hanger	1 pcs/hanger
Connect Adjustable hanger, installed at 600 mm centres at the level change	1,4/m²	1,4/m²	1,4/m²
Δ Min. overall depth of system: Δ 1=165 mm and Δ 2=80 mm from upper level	-	-	
δ Min. demounting depth: Individual ceiling tiles are non-demountable	-	-	
Dimension: c=300 mm, h<1130 mm (XL 1500), h<1530 mm (XL 1900), h<1930 mm (XL 2300)	-		
	Connect T24 Main runner HD Connect Space bar, installed at 1500 mm centres (max. distance from wall 300 mm) Connect Space bar winch, installed one per joint Main runner/Space bar Angle Bracket Fixiform (included in Fixiform kit) Absorber screw metal 50 (included in Fixiform kit) Connect Hook (included in Fixiform kit) Reinforcement rod (included in Fixiform kit) Connect F Spline (included in Fixiform kit) Plug for reinforcement rod (included in Fixiform kit) Distance (included in Fixiform kit) Connect Hanger clip Connect Adjustable hanger, installed at 600 mm centres at the level change A Min. overall depth of system: $\Delta 1 = 165$ mm and $\Delta 2 = 80$ mm from upper level 8 Min. demounting depth: Individual ceiling tiles are non-demountable	1500x600 1500x600	1500x60 1900x60 190





The fold is reinforced by a rod



Upper level connection to Main runner

Size, mm	Max live load (N)	Min load bearing capacity (N)
1500x600x20	0	160
1900x600x20	0	160
2300x600x20	0	160



Ecophon FocusTM Frieze

Ecophon FocusTM Frieze is available for edge Dg, Ds, A and E. The frieze can be connected to the wall without any visible trims. For applications where a smooth continuous transition between ceiling and wall is needed.



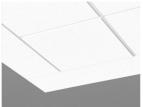
SYSTEM RANGE



Size, mm	2400x600
T24	•
Thickness (THK)	20
Inst. Diagr.	M110, M239

© Saint-Gobain Ecophon AB Ecophon FocusTM Frieze, 2024-04-24





Focus frieze panel

Focus frieze system

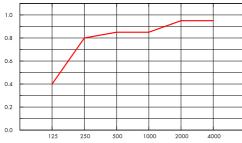
٨,

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 Frieze 20 mm, 200 mm o.d.s.o.d.s = overall depth of system

Frequency Hz

THK	o.d.s. mm	$lpha_{ m p}$, Practical sound absorption coefficient					$\alpha_{\scriptscriptstyle{W}}$	Sound absorption class	
mm		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	o. _w	Sound absorption class
20	200	0.40	0.80	0.85	0.85	0.95	0.95	0.90	А

THK	AC(1.5)	D _{nfw}	CAC dB
mm	Articulation Class, ASTM E1111, ASTM E1110	Weighted normalized flanking level difference, ISO 10848-2	Ceiling Attenuation Class, ASTM 1414, ASTM E413
20	190	24	25

Indoor Air Quality











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 CertificateTM at the Silver level (standard version 4.0). The C2C Certified Material Health CertificateTM 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.

© Saint-Gobain Ecophon AB Ecophon Focus™ Frieze, 2024-04-24



Circularity

Minimum post-consumer recycled content	59%
Recyclability	Fully recyclable



Fire safety

Country	Fire standard	Class	The glass wool core of the tiles is tested and classified as non-combustible according to EN ISO 1182.
Europe	EN 13501-1	A2-s1,d0	non-combustible according to LTV 130-1162.



Humidity Resistance

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



Visual appearance

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



Cleanability

Daily dusting and vacuum cleaning. Weekly wet wiping.



Accessibility



The tiles are not demountable.



Installation

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



System weight

The system consists of Ecophon FocusTM frieze tiles and ConnectTM grid systems, with an approximate weight of 3 kg/m².

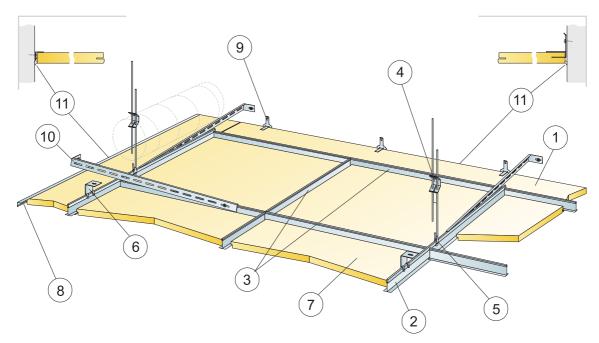


Mechanical properties

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

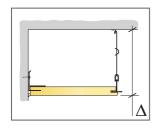


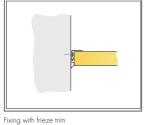
CE

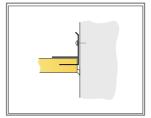


QUANTITY SPECIFICATION (EXCL. WASTAGE)

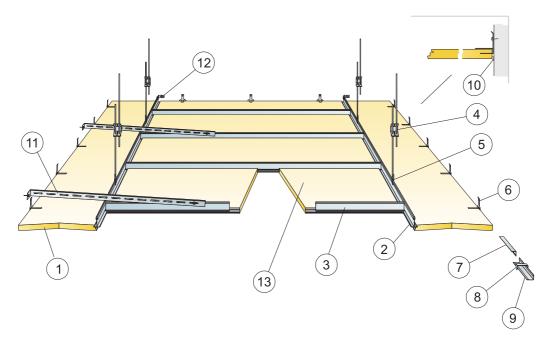
		Size, mm
		2400×600
1	Focus Frieze	as required
2	Connect T24 Main runner	-
3	Connect T24 Cross tee, L=600 mm	as required
4	Connect Adjustable hanger, installed at 1200 mm centres	as required
5	Connect Hanger clip	as required
5	Connect Direct bracket (only in combination with Frieze trim)	as required
7	Focus A or E, Master A or E	as required
3	Connect Frieze trim, fixed at 300 mm centres. If this solution is used on two opposite walls, the inner part if the ceiling needs to be stabilized towards the walls. Minimum free depth above tile 0 mm.	as required
7	Connect Frieze bracket, installed at 500 mm centre. Minimum free depth above tile 150 mm.	as required
10	Connect Wall bracket, L=700 mm, for space bar	as required
11	Acrylic sealant, (not supplied by Ecophon)	as required
	Δ Min. overall depth of system: with Adjustable hanger: 110 mm, with Direct bracket: 60 mm	-
	δ Min. demounting depth: The system is not demountable	-
	Focus Frieze: Min. overall depth of system: 160 mm	
	Focus Frieze: Min. demounting depth: The system is non-demountable	-
	Ecophon Focus frieze: can be divided in two parts if width is less than 300 mm	





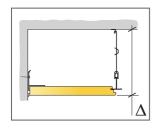


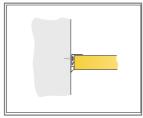
m Fixing with frieze bracket



QUANTITY SPECIFICATION (EXCL. WASTAGE)

		Size, mm
		2400×600
1	Focus frieze Ds/Dg	as required
2	Connect T24 Main runner	
3	Connect T24 Cross Tee L=600/1200/1800 alt. Main runner	as required
4	Connect Adjustable hanger, installed at 1200 mm centres	as required
5	Connect Hanger clip	as required
6	Connect Frieze bracket, installed at 500 mm centre. Minimum free depth above tile 150 mm.	as required
7	Connect Frieze trim, fixed at 300 mm centres.	as required
8	Connect Perimeter tile clip	1/300-400mm on any cut edge
9	Connect Angle trim	as required
10	Acrylic sealant, (not supplied by Ecophon)	as required
11	Connect Wall bracket, L=700 mm, for space bar	as required
12	Connect Wall bracket for T-profiles	as required
13	Focus Ds or Dg	as required
	Δ Min. overall depth of system: 110 mm	
-	δ Min. demounting depth: Focus frieze tiles are non-demountable, center part according to each system	
	Ecophon Focus frieze: can be divided in two parts if width is less than 300 mm	







Size, mm Max live Min load bearing load (N) capacity (N) 2400x600x20 0 160

Fixing with frieze trim

Fixing with frieze bracket

Live load/load bearing capacity

Ecophon Focus Edge™ 500

Ecophon Focus EdgeTM 500 is a system used as free hanging unit(s) in applications where the installation of a wall-to-wall ceiling is not possible. The system consists of profiles and corners which together form a well designed perimeter trim.



SYSTEM RANGE



Size, mm				
	600×600	1200x600	1200×1200	1200x1200
T24	•	•	•	•
Thickness (THK)	20	20	20	25
Inst. Diagr.	M165, M210, M211	M165, M210, M211	M210	M211



Connect Edge 500 in position for Focus E installation



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





Installation

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

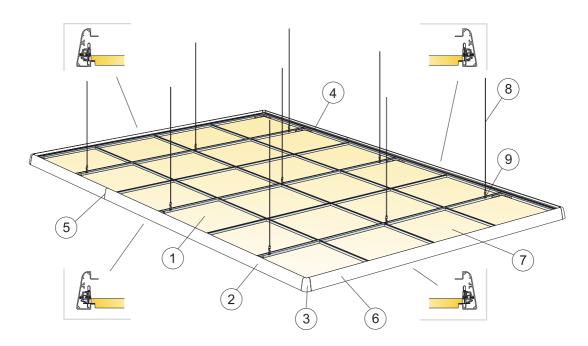


Mechanical properties

Additional live load has to be fixed to the soffit.

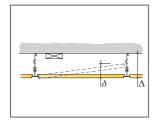


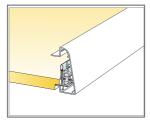
CE



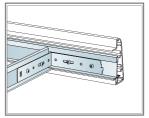
QUANTITY SPECIFICATION (EXCL. WASTAGE)

	Size, mm	
	600×600	1200×600
1 Focus E	2,8/m²	1,4/m²
2 Connect Edge 500 Profile	as required	as required
3 Connect Edge Corner	as required	as required
4 Connect Lcoupling	as required	as required
5 Joint with Guide pins and Joint fixing bracket, (see Edge kit for further details)	as required	as required
6 Connect Edge profile clip E, [18 pcs/kit included in Connect Edge kit E]	as required	as required
7 Focus E tile and Connect grid	as required	as required
8 Connect Adjustable wire hanger, installed at 1 200 mm centres	as required	as required
9 Connect Hanger clip	as required	as required
Connect Edge kit E: 18 pcs Connect Edge profile clip with screw RTK 3,5x19, 4 pcs Joint fixing bracket, 1 pc socket screw wrench 2 mm, 1 pc socket screw wrench T10, 12 pcs guide pins, 24 pcs screws RTK ST 3,5x9,5 (for fixing to extrusion), 1 pc installation guide	as required	as required
Not included in kit: Connect L-coupling	-	-
Not included in kit: Connect Installation screw BR for L-coupling	-	-
Δ Min. overall depth of system: 130 mm		
δ Min. demounting depth: See Focus/Master E		





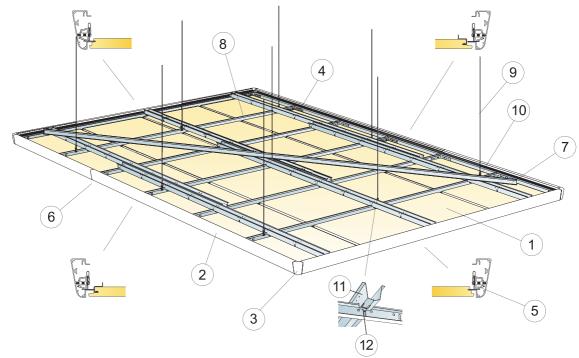
Joint between tile and Edge profile



Connection between T-profile and Edge

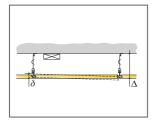
load (N) 50	capacity (N) 160
50	160
	50

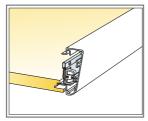
Live load/load bearing capacity



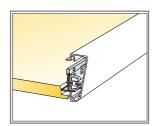
QUANTITY SPECIFICATION (EXCL. WASTAGE)

		Size, mm		
		600×600	1200×600	1200×1200
1	Focus Ds	2,8/m²	1,4/m²	0,7/m²
2	Connect Edge 500 Profile	as required	as required	as required
3	Connect Edge 500 Corner	as required	as required	as required
4	Connect L-coupling	as required	as required	as required
5	Connect Edge profile clip, (18 pcs/kit included in Connect Edge kit Ds/Dg)	as required	as required	as required
6	Joint with Guide pins and Joint fixing bracket, (see Edge kit for further details)	as required	as required	as required
7	Connect Main runner for adjustment and stabilisation of grid	as required	as required	as required
8	Focus Ds tile and Connect grid system (see Focus Ds system page for further details)	as required	as required	as required
9	Connect Adjustable wire hanger, installed at 1200 mm centres	as required	as required	as required
10	Connect Hanger clip	as required	as required	as required
11	Connect Space bar	as required	as required	as required
12	Connect Space Bar Winch, installed one per joint Connect Main Runner/Connect Space Bar	1,4/m²	1,4/m²	0,7/m²
	Connect Edge Kii Ds/Dg: 18 pcs Connect Edge profile clip with screw RTK 3,5x25, 4 pcs Joint fixing bracket, 1 pc socket screw wrench 2 mm, 1 pc socket screw wrench T10, 12 pcs guide pins, 24 pcs screws RTK ST 3,5x9,5 (for fixing to extrusion), 2 pcs installation guides	as required	as required	as required
	Not included in kit: Connect L-coupling	-	-	-
	Not included in kit: Connect Installation screw BR for L-coupling	-	-	-
	Δ Min. overall depth of system: 135 mm	-	-	-
	δ Min. demounting depth: 30 mm (50 mm with 1200x1200)	-		



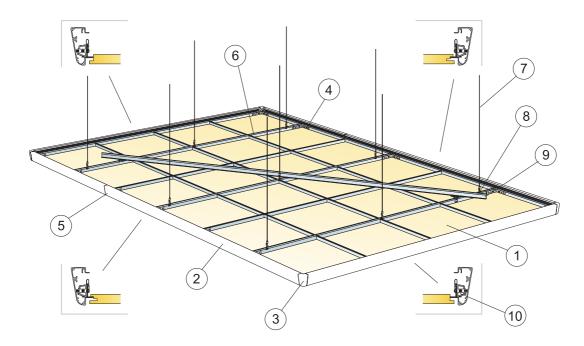


Joint with tile side Ds 1



Joint with tile side Ds2 and extra profile

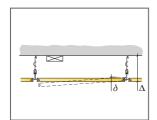
600x600x20	load (N) 50	capacity (N)
1200x600x20	50	160
1200x000x20	50	160
1200x1200x20	30	100

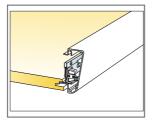


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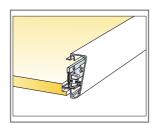
QUANTITY SPECIFICATION (EXCL. WASTAGE)

	Size, mm	Size, mm	
	600×600	1200×600	1200×1200
1 Focus Dg	2,8/m²	1,4/m²	0,7/m²
2 Connect Edge 500 Profile	as required	as required	as required
3 Connect Edge 500 Corner	as required	as required	as required
4 Connect L-coupling	as required	as required	as required
5 Joint with Guide pins and Joint fixing bracket, (see Edge kit for further details)	as required	as required	as required
6 Focus Dg tile and Connect grid system (see Focus Dg system page for further details)	as required	as required	as required
7 Connect Adjustable wire hanger, installed at 1200 mm centres	as required	as required	as required
8 Connect Hanger clip	as required	as required	as required
9 Connect Main runner for adjustment and stabilisation of grid	as required	as required	as required
10 Connect Edge profile clip, (18 pcs/kit included in Connect Edge kit Ds/Dg)	as required	as required	as required
Connect Edge Kit Ds/Dg: 18 pcs Connect Edge profile clip with screw RTK 3,5x25, 4 pcs Joint fixing bracket, 1 pc socket screw wmm, 1 pc socket screw wrench T10, 12 pcs guide pins, 24 pcs screws RTK ST 3,5x9,5 (for fixing to extrusion), 2 pcs installation gui		as required	as required
Not included in kit: Connect Lcoupling	-	-	
Not included in kit: Connect Installation screw BR for L-coupling	-	-	
Δ Min. overall depth of system: 135 mm	-		
δ Min. demounting depth: 30 mm (50 mm with 1200x1200)	-		-





Joint between tile and Edge profile



Connection between T-profile and Edge

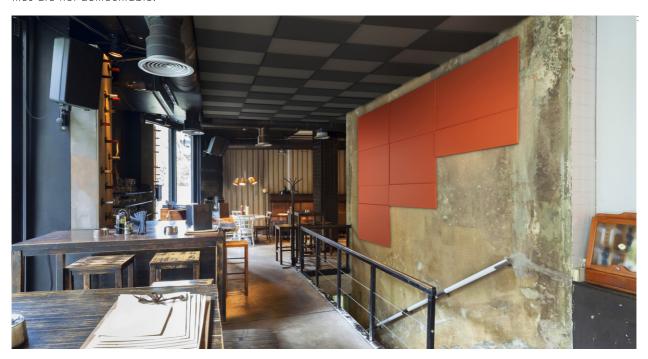
Size, mm	Max live load (N)	Min load bearing capacity (N)
600x600x20	50	160
1200x600x20	50	160
1200x1200x25	50	160

Live load/load bearing capacity



Ecophon FocusTM Levels

Focus Levels is a new design system consisting of tiles with three different thicknesses: 40, 30 and 20 mm. The tiles are glued directly next to each other and by varying the tile thickness, you can create unique design solutions with built in level shiftings. The system is easy to install in ceilings and/or on walls. Use Connect Absorber glue for best result. The tiles are made of glass wool and the exposed surface has a Akutex surface of highest quality. The tiles are not demountable.



SYSTEM RANGE



Size, mm	600x600	600x600	600x600	1200x300	1200x300	1200x300	1200x600	1200x600	1200x600
Direct	•	•	•	•	•	•	•	•	•
Thickness (THK)	20	30	40	20	30	40	20	30	40
Inst. Diagr.	M488, M489								

© Saint-Gobain Ecophon AB Ecophon Focus™ Levels, 2024-04-24







Focus Levels system

Section of Focus Levels system

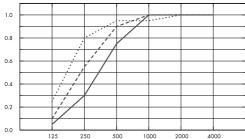
Acoustic



Sound Absorption:

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

 $lpha_{\scriptscriptstyle D}$, Practical sound absorption coefficient

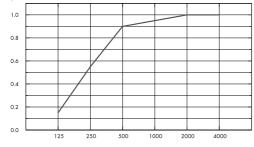


···· Focus Levels 40 mm, 43 mm o.d.s.

- --- Focus Levels 30 mm, 33 mm o.d.s.
- Focus Levels 20 mm, 23 mm o.d.s.
- o.d.s = overall depth of system

Frequency Hz





- Focus Levels 20/30/40 mm (M488, M489), 23-43 mm o.d.s.

o.d.s = overall depth of system

Frec	uency	H:
1160	locucy	1 12

THK	o.d.s. mm		$lpha_{p'}$ Pr	actical sound	d absorption c	coefficient		$\alpha_{\scriptscriptstyle{ ext{W}}}$	Sound absorption class
mm	O.d.s. IIIII	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	$\omega_{\scriptscriptstyle W}$	Sound absorption class
40	43	0.25	0.80	0.95	0.95	1.00	1.00	1.00	А
30	33	0.10	0.55	0.90	1.00	1.00	1.00	0.85	В
20	23	0.05	0.30	0.75	1.00	1.00	1.00	0.60	С
0	43	0.15	0.55	0.90	0.95	1.00	1.00	0.85	В

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

Indoor Air Quality



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







Ecophon Focus™ Levels, 2024-04-24 © Saint-Gobain Ecophon AB



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



Environmental Footprint

	kg CO2 equiv/m²
Focus Levels 20mm	5,03
Focus Levels 30mm	6,23
Focus Levels 40mm	7,44

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



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

Country	Fire standard	Class
Europe	EN 13501-1	A2-s1,d0

The glass wool core of the tiles is tested and classified as non-combustible according to EN ISO 1182.



Humidity Resistance

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



Visual appearance

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



Cleanability

Daily dusting and vacuum cleaning. Weekly wet wiping.



Accessibility

The tiles are not demountable.



Installation

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

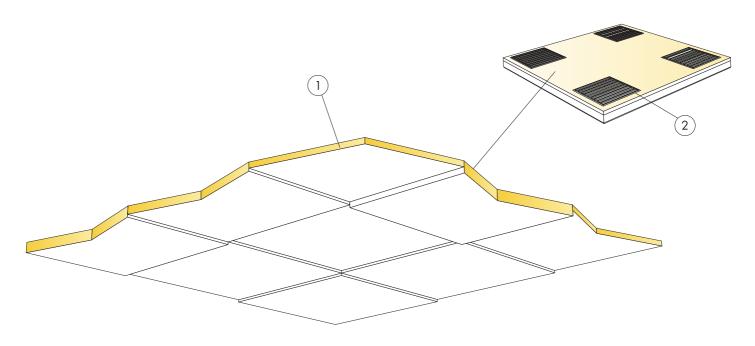


Mechanical properties

Additional live load has to be fixed to the soffit.

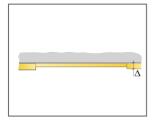


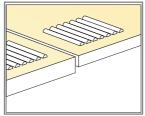
CE



QUANTITY SPECIFICATION (EXCL. WASTAGE)

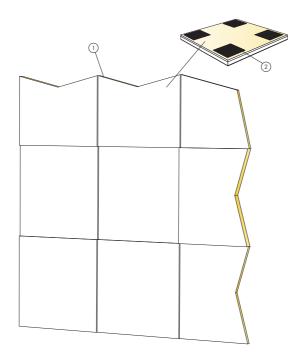
	Size, mm	Size, mm	
	600×600	1200×300	1200×600
Focus Levels	2,8/m²	2,8/m²	2,8/m²
Connect Absorber glue [0,25 1/m² - 0,4 1/m² depending on installation conditions]	as required	as required	as required
Use Connect Notched spatula to apply the glue.	-	-	-
Δ Min. overall depth of system: 23 mm	-	-	-
δ Min. demounting depth: The system is not demountable		-	-
Cut visible edges should be painted		-	-
Installation shows 30% of each thickness	-		-





Application of glue

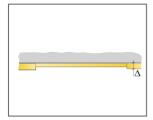
Size, mm	Max live load (N)	Min load bearing capacity (N)
600x600x20	-	=
600x600x30	-	-
600x600x40	-	-
1200x300x20	-	-
1200x300x30	-	-
1200x300x40	-	-

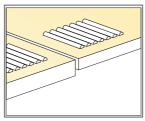


© Ecophon Group

QUANTITY SPECIFICATION (EXCL. WASTAGE)

		Size, mm		
		600×600	1200×300	1200×600
1	Focus Levels	2,8/m²	2,8/m²	2,8/m²
2	Connect Absorber glue [0,25]/m² - 0,4]/m² depending on installation conditions]	as required	as required	as required
	Use Connect Notched spatula to apply the glue.	-	-	-
	Δ Min. overall depth of system: 23 mm	-	-	-
	δ Min, demounting depth; The system is not demountable	-	-	-
	Cut visible edges should be painted	-	-	-
	Installation shows 30% of each thickness	-	-	-





Application of glue

Size, mm	Max live load (N)	Min load bearing capacity (N)
600x600x20	-	=
600x600x30		-
600x600x40		-
1200x300x20		-
1200x300x30		-
1200x300x40	-	-