

### Ecophon Focus<sup>™</sup> A

Ecophon Focus<sup>™</sup> 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

20	Size, mm	600x600	625x625	1200x600	1200x1200	1250x625	XL 1600x600	XL 1 800x600	XL 2000x600	XL 2400x600
	Connect T15	•		•	•					
	Connect T24	•	•	•	•	•	•	•	•	•
	T24	•		•	•					
	Thickness (THK)	20	20	20	20	20	20	20	20	20
	Inst. Diagr.	M01, M399	M01 DIN	M01, M399	M01	M01 DIN	M16, M46	M16, M46	M16, M46	M16, M46

24/15



Focus A tile

# Section of Focus A system with Connect



#### Acoustic

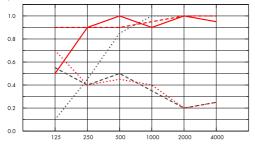


#### Sound Absorption:

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.

 $lpha_{_{D'}}$  Practical sound absorption coefficient

T24



····· 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.
- o.d.s = overall depth of system Frequency Hz

	тнк	o.d.s. mm		$lpha_{ m p'}$ Prac	ctical sound	d absorptior	n coefficient		. α.,	Sound absorption class
	mm	0.d.s. mm	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	<sub>W</sub>	Sound 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	A
+ Extra Bass,	70	200	0.90	0.90	0.90	0.95	1.00	1.00	0.95	A
gamma	20	200	0.55	0.40	0.50	0.35	0.20	0.25	0.30	D
gamma + Extra Bass	70	200	0.70	0.40	0.45	0.40	0.20	0.25	0.30	D

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

тнк	AC(1.5)	D <sub>nfw</sub>	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



#### Indoor Air Quality

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



#### **Environmental Footprint**

)*		kg CO2 equiv/m²	Life-cycle stages A1 to C4 from EPD, in conformity with ISO 14025 / EN 15804
	Focus A	2,6	14025 / LIN 15004
	Focus A/Plant	1,81	



#### Circularity

Minimum post-consumer recycled content	51%
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**

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



#### Visual appearance

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



#### Cleanability

Daily dusting and vacuum cleaning. Weekly wet wiping.



#### Accessibility

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



#### Installation

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



#### System weight

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



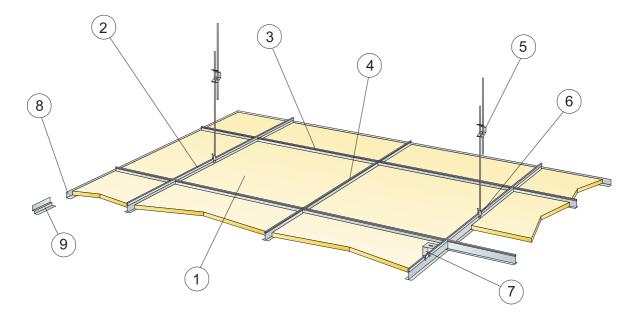
#### **Mechanical properties**

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

### CE

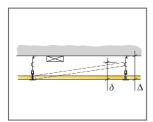
CE

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.

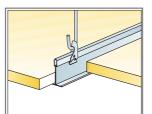


#### QUANTITY SPECIFICATION (EXCL. WASTAGE)

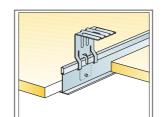
Size, mm		
600×600	1200×600	1200×1200
2,8/m²	1,4/m²	0,7/m²
0,9m/m²	0,9m/m²	0,9m/m²
1,7m/m²	1,7m/m²	0,9m/m²
0,9m/m²	-	
0,7/m²	0,7/m²	0,7/m²
0,7/m²	0,7/m²	0,7/m²
0,7/m²	0,7/m²	0,7/m²
as required	as required	as required
as required	as required	as required
		-
	600×600 2,8/m <sup>2</sup> 0,9m/m <sup>2</sup> 1,7m/m <sup>2</sup> 0,9m/m <sup>2</sup> 0,7/m <sup>2</sup> 0,7/m <sup>2</sup> 0,7/m <sup>2</sup> as required as required -	600x600         1200x600           2,8/m²         1,4/m²           0,9m/m²         0,9m/m²           1,7m/m²         1,7m/m²           0,9m/m²         .           0,7/m²         0,7/m²           0,7/m²         0,7/m²



See Quantity specification

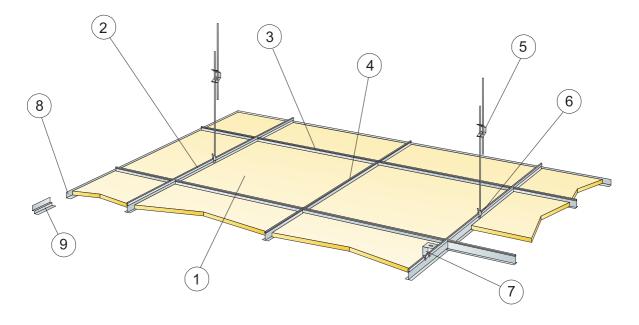


Suspension with adjustable hanger and clip

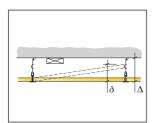


Suspension with direct bracket

Size, mm	load (N)	1 7 1 7
600x600x20	50	160
1200x600x20	50	160
1200x1200x20	50	160

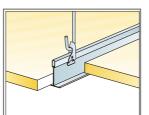


		Size, mm	
		625×625	1250x625
1	Focus A	2,6/m²	-
2	Connect T24 Main Runner, installed at 1250 mm centres for DIN (only white profiles)	0,8m/m²	0,8m/m²
3	Connect T24 or T15 Cross Tee, L=1250 mm, installed at 625 mm centres	1,6m/m²	1,6m/m²
4	Connect T24 or T15 Cross Tee, L=625 mm	0,8m/m²	-
5	Connect Adjustable Hanger, installed at 1250 mm centres (max. distance from wall 600 mm)	0,7/m²	0,7/m²
6	Connect Hanger Clip (not to be used in swimming hall environments)	0,7/m²	0,7/m²
7	For direct installation: Connect Direct Bracket, installed at 1250 mm centres	0,7/m²	0,7/m²
8	Connect Angle trim, fixed at 300 mm centres	as required	as required
9	Connect Shadow-line trim, fixed at 300 mm centres	as required	as required
	$\Delta$ Min. overall depth of system, with adjustable hanger: 100 mm, with direct bracket: 50 mm	-	
	$\delta$ Min. demounting depth: 120 mm	-	
	For luminaire integration in panels use Connect Bridging	-	

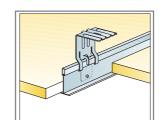


QUANTITY SPECIFICATION (EXCL. WASTAGE)

See Quantity specification

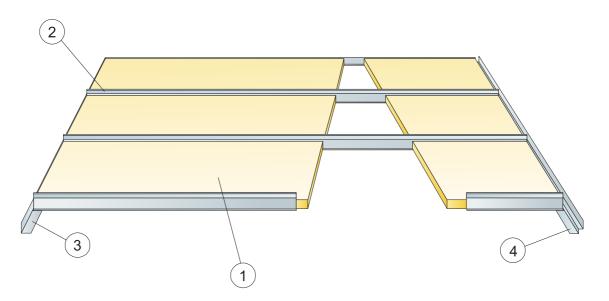


Suspension with adjustable hanger and clip



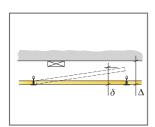
Suspension with direct bracket





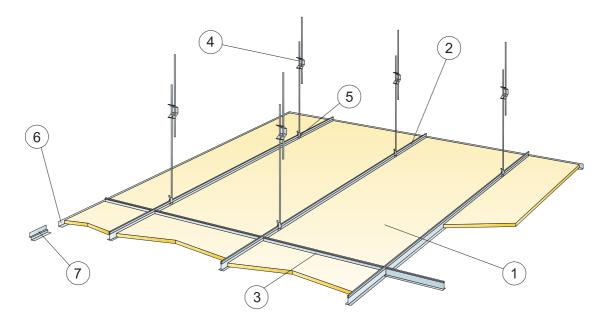
#### QUANTITY SPECIFICATION (EXCL. WASTAGE)

	Size, mm	Size, mm		
	1600×600	1800×600	2000x600	2400×600
Focus A	1,05/m²	0,95/m²	0,85/m²	0,7/m²
Connect T24 Corridor profile, installed at 600 mm centres	1,05/m²	0,95/m²	0,85/m²	0,7/m²
Connect Angle trim, fixed at 200 mm centres	as required	as required	as required	as required
Connect Shadow-line trim, fixed at 200 mm centres	as required	as required	as required	as required
$\Delta$ Min. overall depth of system: 40 mm		-		
$\delta$ Min. demounting depth: 65 mm		-		



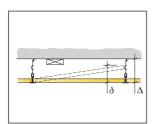
See Quantity specification

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

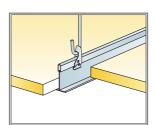


#### QUANTITY SPECIFICATION (EXCL. WASTAGE)

Size, mm			
1600×600	1800×600	2000×600	2400×600
1,05/m²	0,95/m²	0,85/m²	0,7/m²
1,7m/m²	1,7m/m²	1,7m/m²	1,7m/m²
0,65m/m²	0,6m/m²	0,5m/m²	0,45m/m²
1,1/m²	1,1/m²	1,1/m²	1,1/m²
1,1/m²	1,1/m²	1,1/m²	1,1/m²
as required	as required	as required	as required
as required	as required	as required	as required
-	-	-	-
-	-	-	-
	1600×600           1,05/m²           1,7m/m²           0,65m/m²           1,1/m²           1,1/m²           as required           as required	1600x600         1800x600           1,05/m²         0,95/m²           1,7m/m²         1,7m/m²           0,65m/m²         0,6m/m²           1,1/m²         1,1/m²           1,1/m²         1,1/m²           as required         as required           as required         os required	1600x600         1800x600         2000x600           1,05/m²         0,95/m²         0,85/m²           1,7m/m²         1,7m/m²         1,7m/m²           0,65m/m²         0,6m/m²         0,5m/m²           1,1/m²         1,1/m²         1,1/m²           1,1/m²         1,1/m²         1,1/m²           as required         as required         as required           as required         as required         as required

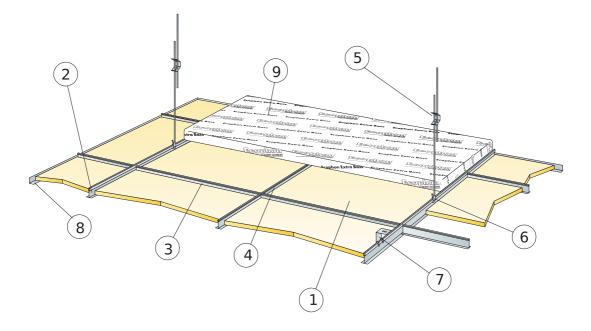


See Quantity specification



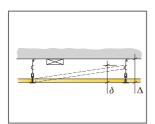
Suspension with adjustable hanger and clip

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

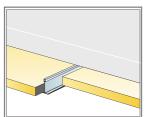


#### ${}^{\textcircled{O}}\mathsf{Ecophon}\,\mathsf{Group}$

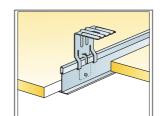
	Size, mm	
	600×600	1200x600
Focus A	2,8/m²	1,4/m²
2 Connect T24 Main runner black, installed at 1200 mm centres (max. distance from wall 600 mm, can be extended up to 1200 mm if no live load between Ma runner and wall).	n 0,9m/m²	0,9m/m²
3 Connect T24 Cross tee black, L=1200 mm, installed at 600 mm centres	1,7m/m²	1,7m/m²
t Connect T24 Cross tee black, 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
> Connect Hanger Clip (not to be used in swimming hall environments)	0,7/m²	0,7/m²
7 For direct installation: Connect Direct Bracket, installed at 1200 mm centres	0,7/m²	0,7/m²
3 Connect Angle trim black, (fixed at 300 mm centres)	as required	as required
P Extra Bass (1200x600x50 mm)	0,7/m²	0,7/m²
$\Delta$ Min. overall depth of system: Focus A: 50 mm (Direct bracket). Focus A/with Extra bass: 100 mm.	-	-
$\delta$ Min. demounting depth: Focus A: 130 mm, Focus A/with Extra bass: 170 mm		



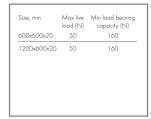
See Quantity specification



Installation with Extra Bass



Fixing with direct bracket





## Ecophon Focus<sup>™</sup> B

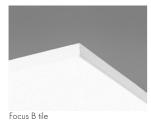
Ecophon Focus<sup>™</sup> B are bonded edge-to-edge directly to the soffit surface, creating a ceiling with a smooth appearance. The bevelled edge creates a narrow groove between each tile. For applications where the minimum possible overall depth of system is required.

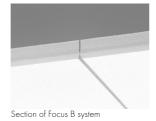


#### SYSTEM RANGE

20	Size, mm	600x600	1200x600
	Direct	•	•
	Thickness (THK)	20	20
	Inst. Diagr.	M03	M03

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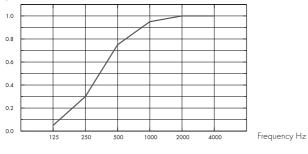
#### Acoustic



#### Sound Absorption:

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

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



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

ТНК	o.d.s. mm		$lpha_{p'}$ Pr	actical sound	d absorption c	coefficient		α"	Sound absorption class
mm	0.0.3. 11111	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	a. W	
20	23	0.05	0.30	0.75	0.95	1.00	1.00	0.60	С

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



#### **Indoor Air Quality**

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

#### **Environmental Footprint**

2°		kg CO2 equiv/m²	Life-cycle stages A1 to C4 from EPD, in conformity with IS	
	Focus B	4,10	14025 / EN 15804	



#### Circularity

Minimum post-consumer recycled content	56%
Recyclability	Fully recyclable



#### Fire safety

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



#### **Humidity Resistance**

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



#### **Visual appearance**

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



#### Cleanability

Daily dusting and vacuum cleaning. Weekly wet wiping.



#### Accessibility

The tiles are 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.

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

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#### System weight

The weight of the system should be approximately 2,5 kg/m<sup>2</sup>

compare performance of products available on the European market.



#### **Mechanical properties**

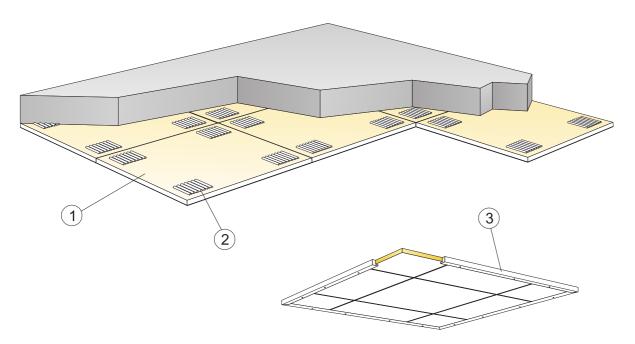
Additional live load has to be fixed to the soffit.



CE

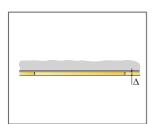
© Saint-Gobain Ecophon AB

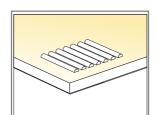
#### INSTALLATION DIAGRAM (M03) FOR ECOPHON FOCUS B, USING CONNECT ABSORBER GLUE



#### © Ecophon Group

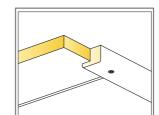
	Size, mm	Size, mm	
	600×600	1200×600	
Focus B	2,8/m²	-	
Connect Absorber glue (0,25 l/m² - 0,4 l/m² depending on installation conditions)	as required	as required	
Use Connect Notched spatula to apply the glue.			
When installing floating ceilings: Connect Wood trim, L=2500, fixed at 500 mm centres	as required	as required	
$\Delta$ Min. overall depth of system: 23 mm			
$\delta$ Min. demounting depth: The system is not demountable			
Visible edges should be painted	-	-	





See Quantity specification

Application of glue



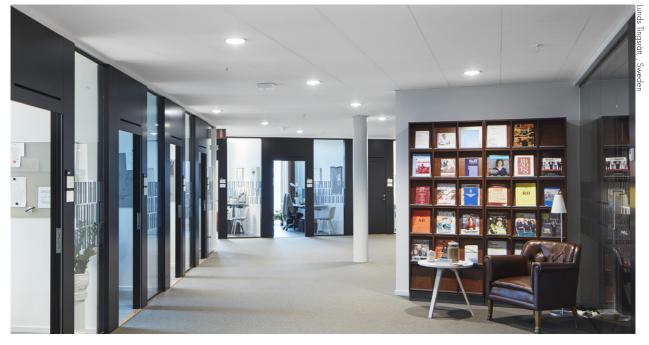
Wood trim for floating installation





# Ecophon Focus<sup>™</sup> Ds

Ecophon Focus<sup>™</sup> 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.





<u>∽</u> ]≈	Size, mm	600x600	1200x600	1200x1200	XL 1.600x600	XL 1 800x600	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

© Saint-Gobain Ecophon AB



Focus Ds tile

#### Acoustic

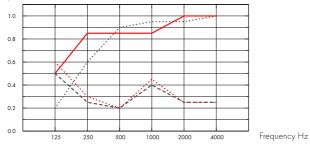


#### Sound Absorption:

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 Ds system

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



Section of Focus Ds system with

Connect T24 Main runner HD

···· 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.

The individual tiles are easily

demountable

o.d.s = overall depth of system

	тнк	THK o.d.s. mm Practical sound absorption coefficient				α	Sound absorption class			
	mm	0.0.5. 11111	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	u.,,	Sound absorption class
-	20	65	0.20	0.60	0.90	0.95	0.95	1.00	0.90	A
-	20	200	0.50	0.85	0.85	0.85	1.00	1.00	0.90	A
gamma	20	200	0.50	0.25	0.20	0.40	0.25	0.25	0.25	E
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

T⊢	٩K	AC(1.5)	D <sub>nfw</sub>	CAC dB
m		Articulation Class, ASTM E1111, ASTM E1110	Weighted normalized flanking level difference, ISO 10848-2	Ceiling Attenuation Class, ASTM 1414, ASTM E413
2	0	180	24	25

#### **Indoor Air Quality**

Certificate / Label		EMISSIONS DANS L'AIR INTÉRIEUR De Company de
Eurofins Indoor Air Comfort®	IAC	
French VOC	А	
Finnish M1	•	

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#### Circularity

Minimum post-consumer recycled content	57%
Recyclability	Fully recyclable

#### **Environmental Footprint**

P		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



#### Fire safety

Country	_	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-composible according to ET4 13O TT 8Z.



#### **Humidity Resistance**

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



#### Visual appearance

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



#### Cleanability

Daily dusting and vacuum cleaning. Weekly wet wiping.



#### Accessibility

The tiles 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<sup>2</sup>.



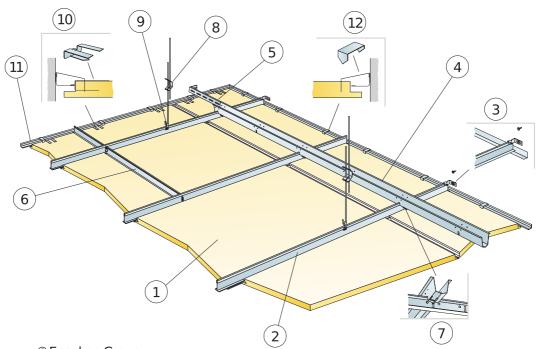
#### **Mechanical properties**

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

#### CE

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

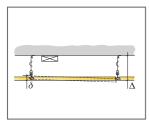
INSTALLATION DIAGRAM (M206) FOR ECOPHON FOCUS DS 600X600, 1200X600 MM AND ECOPHON FOCUS DS XL SUSPENDED INSTALLATION



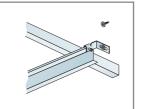
© Ecophon Group

QUANTITY SPECIFICATION (EXCL. WASTAGE)

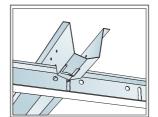
Size, mm					
600x600	1200×600	1600×600	1800×600	2000×600	2400×600
2,8/m²	1,4/m²	1,05/m²	0,95/m²	0,85/m²	0,7/m²
1,7m/m²	1,7m/m²	1,7m/m²	1,7m/m²	1,7m/m²	1,7m/m²
1/suspended ro	ow of Main runner				
wall 0,7m/m²	0,7m/m²	0,7m/m²	0,7m/m²	0,7m/m²	0,7m/m²
1/row of Space	e bar				
2/row of Main	runner				
1,4/m²	1,4/m²	1,4/m²	1,4/m²	1,4/m²	1,4/m²
nce 0,7/m²	0,7/m²	0,7/m²	0,7/m²	0,7/m²	0,7/m²
0,7/m²	0,7/m²	0,7/m²	0,7/m²	0,7/m²	0,7/m²
1pc/300-400 r	mm on every cut perim	eter tile with only 1 su	pporting edge		
as required	as required	as required	as required	as required	as required
1/300-400mm	on any cut edge				
					-
					-
		600x600         1200x600           2,8/m²         1,4/m²           1,7m/m²         1,7m/m²           1/suspended row of Main runner           wall 0,7m/m²         0,7m/m²           1/row of Space bar           2/row of Main runner           1,4/m²           1,4/m²           0,7m/m²           0,7m/m²           0,7m/m²           0,7m/m²           0,7m/m²           1,4/m²           1,4/m²           0,7/m²           0,7/m²           0,7/m²           0,7/m²           1,pc/300400 mm on every cut perimeter	600x600         1200x600         1600x600           2,8/m²         1,4/m²         1,05/m²           1,7m/m²         1,7m/m²         1,7m/m²           1,7m/m²         1,7m/m²         1,7m/m²           1/suspended row of Main runner         0,7m/m²         0,7m/m²           wall 0,7m/m²         0,7m/m²         0,7m/m²           1/row of Space bar         1,4/m²         1,4/m²           2/row of Main runner         1,4/m²         0,7/m²           1,4/m²         0,7/m²         0,7/m²           0,7/m²         0,7/m²         0,7/m²           0,7/m²         0,7/m²         0,7/m²           1,0004000 mm or every cut perimeter tile with only 1 su         as required         as required           1/3004000 mm or ary cut edge         -         -	600x600         1200x600         1600x600         1800x600           2,8/m²         1,4/m²         1,05/m²         0,95/m²           1,7m/m²         1,7m/m²         1,7m/m²         1,7m/m²           1,7m/m²         1,7m/m²         1,7m/m²         1,7m/m²           1/suspended row of Main runner         vall         0,7m/m²         0,7m/m²           1/row of Space bar         0,7m/m²         0,7m/m²         0,7m/m²           1/row of Main runner         1,4/m²         1,4/m²         1,4/m²           1/row of Space bar         0,7m/m²         0,7m/m²         0,7m/m²           1/row of Main runner         0,7/m²         0,7/m²         0,7m/m²           1/row of Main runner         0,7/m²         0,7/m²         0,7/m²           1,4/m²         1,4/m²         1,4/m²         1,4/m²           1,4/m²         0,7/m²         0,7/m²         0,7/m²           0,7/m²         0,7/m²         0,7/m²         0,7/m²           1pc/300.4000 mm or very cut perimeter tile with only 1 supporting edge         as required         as required           1/300.4000 mm or very cut edge         -         -         -	$400\times600$ $1200\times600$ $1600\times600$ $1800\times600$ $2000\times600$ $2,8/m^2$ $1,4/m^2$ $1,05/m^2$ $0,95/m^2$ $0,85/m^2$ $1,7m/m^2$ $1/suspended row of Main runner           0,7m/m^2 0,7m/m^2 0,7m/m^2 1/row of Space bar           0,7m/m^2 0,7m/m^2 0,7m/m^2 0,7m/m^2 1/row of Main runner           1,4/m^2 1,4/m^2 1,4/m^2 0,7m/m^2 1/row of Space bar           1,4/m^2 0,7/m^2 0,7m/m^2 0,7m/m^2 1/x/m^2 1,4/m^2 1,4/m^2 0,7/m^2 $



See Quantity Specification



Secured Main runner at wall with Connect Wall bracket

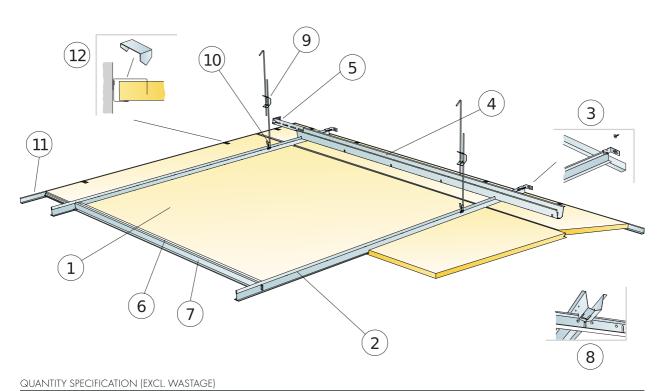


Connection between profiles with space bar winch

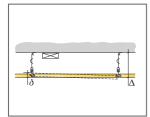
Size, mm	Max live load (N)	Min load bearing capacity (N)
600x600x20	50	160
1200x600x20	50	160
1600x600x20	50	160
1800x600x20	50	160
2000x600x20	50	160
2400x600x20	50	160

Live load/load bearing capacity

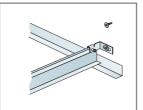
INSTALLATION DIAGRAM (M207) FOR ECOPHON FOCUS DS 1200X1200 MM



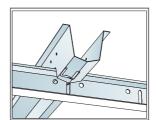
	Size, mm
	1200×1200
1 Focus Ds	0,7/m²
<ul> <li>Connect T24 Main runner HD, installed at 1200 mm centres (max. distance from wall 600 mm, can be extended up wall).</li> </ul>	to 1200 mm if no live load between Main runner and $0.9 \textrm{m}/\textrm{m}^2$
3 Connect Wall Bracket for T-profiles	1/suspended row of Main runner
4 Connect Space Bar, installed at 1500 mm centres (max. distance from wall 300 mm)	0,7m/m <sup>2</sup>
5 Connect Wall Bracket, L=700 mm, for Connect Space Bar	1/row of Space bar
6 Connect Edge stiffener	1,4/m <sup>2</sup>
7 Connect T24 Cross tee, L=1200 mm	2/row of Main runner
8 Connect Space Bar Winch, installed one per joint Connect Main Runner/Connect Space Bar	0,7/m <sup>2</sup>
9 Connect Adjustable Hanger, installed at 1200 mm centres (max. distance from wall 600 mm)	0,7/m <sup>2</sup>
10 Connect Hanger Clip (not to be used in swimming hall environments)	0,7/m <sup>2</sup>
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
$\Delta$ Min. overall depth of system: 115 mm	
$\delta$ Min. demounting depth: 50 mm	
For luminaire integration in panels use Connect Bridging	



See Quantity specification

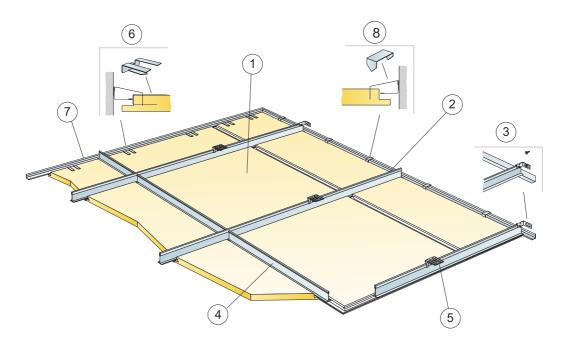


Secured Main runner at wall with Connect Wall bracket



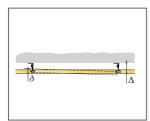
Connection between profiles with space bar winch

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

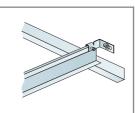


#### QUANTITY SPECIFICATION (EXCL. WASTAGE)

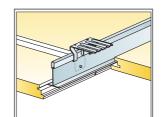
Size, mm						
600×600	1200×600	1600×600	1800×600	2000×600	2400×600	
2,8/m²	1,4/m²	1,05/m²	0,95/m²	0,85/m²	0,7/m²	
1,7m/m²	1,7m/m²	1,7m/m²	1,7m/m²	1,7m/m²	1,7m/m²	
1/suspended rc	w of Main runner					
2/row of Main	runner					
1,1/m²	1,1/m²	1,1/m²	1,1/m²	1,1/m²	1,1/m²	
1/300-400mm	on any cut edge					
as required	as required	as required	as required	as required	as required	
1pc/300-400 r	nm on every cut perim	eter tile with only 1 su	pporting edge			
-						
	600x600 2,8/m <sup>2</sup> 1,7m/m <sup>2</sup> 1/suspended ra 2/row of Main 1,1/m <sup>2</sup> 1/300-400mm as required 1pc/300-400 n	2,8/m²       1,4/m²         1,7m/m²       1,7m/m²         1/suspended row of Main runner         2/row of Main runner         1,1/m²       1,1/m²         1,300-400mm on any cut edge         as required       as required         1pc/300-400 mm on every cut perimination         .       .	600x600         1200x600         1600x600           2,8/m²         1,4/m²         1,05/m²           1,7m/m²         1,7m/m²         1,7m/m²           1/suspended row of Main runner         1,7m/m²           2/row of Main runner         2/row of Main runner           1,1/m²         1,1/m²         1,1/m²           1/300-400mm on any cut edge         as required         as required           1pc/300-400 mm on every cut perimeter tile with only 1 su         .           .         .         .	600x600         1200x600         1600x600         1800x600           2,8/m2         1,4/m2         1,05/m2         0,95/m2           1,7m/m2         1,7m/m2         1,7m/m2         1,7m/m2           1/suspended row of Main runner         I         I/Suspended row of Main runner           2/row of Main runner         I         I/I/m2         1,1/m2           1/1/m2         1,1/m2         1,1/m2         1,1/m2           1/300400mm on any cut edge         as required         as required           as required         as required the with only 1 supporting edge         Inc/300400 mm on any cut perimeter tile with only 1 supporting edge	600x.600         1200x.600         1600x.600         1800x.600         2000x.600           2,8/m2         1,4/m2         1,05/m2         0,95/m2         0,85/m2           1,7m/m2         1,7m/m2         1,7m/m2         1,7m/m2         1,7m/m2           1/suspended row of Main runner               2/row of Main runner               1,1/m2         1,1/m2         1,1/m2         1,1/m2         1,1/m2           1/300-400mm on any cut edge         as required         as required         as required           as required         as required         as required             1pc/300-400 mm on every cut perimeter tile with only 1 supporting edge	



See Quantity specification



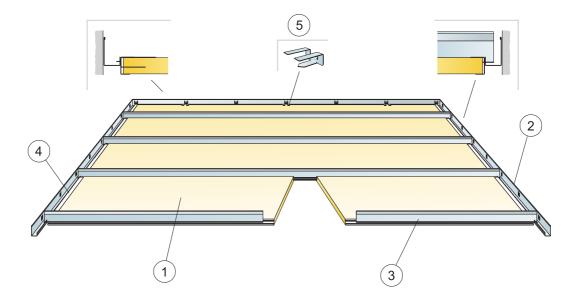
Secured Main runner at wall with Connect Wall bracket



Suspension with direct fix bracket

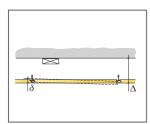
Size, mm	Max live load (N)	Min load bearing capacity (N)
600x600x20	50	160
1200x600x20	50	160
1600x600x20	50	160
1800x600x20	50	160
2000x600x20	50	160
2400x600x20	50	160

Live load/load bearing capacity

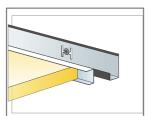


#### QUANTITY SPECIFICATION (EXCL. WASTAGE)

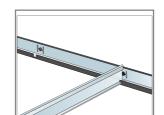
Size, mm	Size, mm			
1600×600	1800×600	2000x600	2400×600	
1,05/m²	0,95/m²	0,85/m²	0,7/m²	
as required	as required	as required	as required	
1,05/m²	0,95/m²	0,85/m²	0,7/m²	
2/tile plus end til	es			
1pc/300-400 m	m on every cut perim	eter tile with only 1 su	pporting edge	
-	-			
-	-			
	2/tile plus end til 1 pc/300-400 m -	2/tile plus end tiles 1 pc/300-400 mm on every cut perim	2/tile plus end tiles 1 pc/300400 mm on every cut perimeter tile with only 1 su	



See Quantity specification

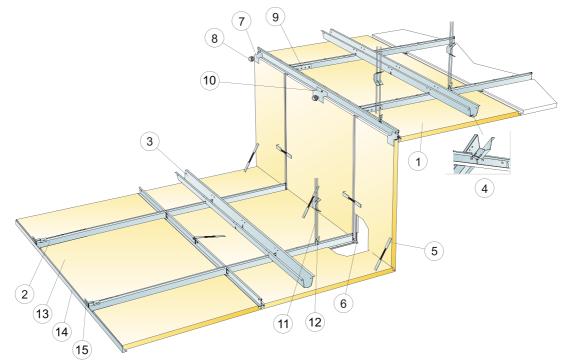


Tile and Connect Cover trim Ds



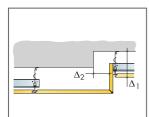
Corridor profile positioned by Modular wall trim

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

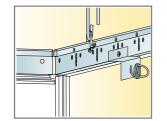


QUANTITY SPECIFICATION (EXCL. WASTAGE)

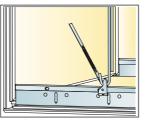
		Size, mm		
		600×600	1200×600	
1	Focus Ds	2,8/m²	1,4/m²	
2	Connect T24 Main Runner HD, installed at 600 mm centres	1,7m/m²	1,7m/m²	
3	Connect Space bar, installed at 1500 mm centres (max. distance from Vertical tile 450 mm)	0,7m/m²	0,7m/m²	
4	Connect Space Bar Winch, installed one per joint Connect Main Runner/Connect Space Bar	1,4/m²	1,4/m²	
5	Connect Hook	3/panel	3/panel	
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 L-coupling	1/row of Main r	1/row of Main runner 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	Focus Ds Perimeter tile L=300-600	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	
	$\Delta$ Min. overall depth of system: $\Delta$ 1=165 mm and $\Delta$ 2=80 mm from upper level			
	$\delta$ Min. demounting depth: Individual ceiling tiles are non-demountable		-	
	Dimension: c=600 mm, h<530 mm			



See Quantity specification

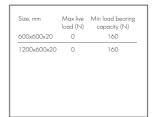


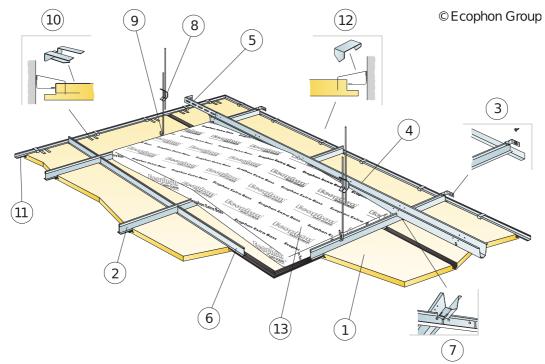
Distance between Focus Lp tiles



Lower

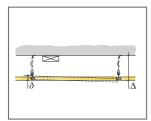
level connection fixed with Hook



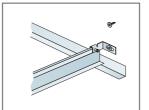


QUANTITY SPECIFICATION (EXCL. WASTAGE)

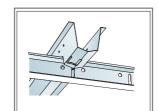
		Size, mm	
		600×600	1200×600
1	Focus Ds	2,8/m²	1,4/m²
2	Connect T24 Main runner HD, installed at 600 mm centres	1,7m/m²	1,7m/m²
3	Connect Wall Bracket for T-profiles	1/suspended rc	w of Main runner
4	Connect Space Bar, installed at 1500 mm centres (max. distance from wall 300 mm)	0,7m/m²	0,7m/m²
5	Connect 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 run		runner 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	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	on any cut edge
13	Extra Bass (1200x600x50 mm)	0,7/m²	0,7/m²
	$\Delta$ Min. overall depth of system: 11.5 mm		
	$\delta$ Min. demounting depth: 30 mm		



See Quantity specification



Connection between profiles with split pin



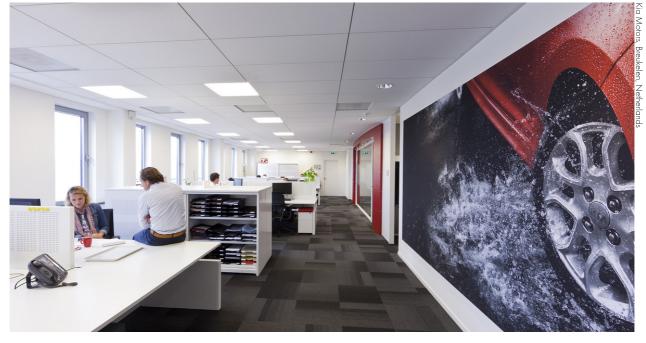
Connection between profiles with space bar winch

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



# Ecophon Focus<sup>™</sup> Dg

Ecophon Focus<sup>™</sup> 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	1200x1200	XL 1600x600	XL 1800x600	XL 2000x600	XL 2400x600
8	T24	•	•	•	•	•	•	•
	Thickness (THK)	20	20	25	20	20	20	20
	Inst. Diagr.	M202	M202	M203	M204	M204	M204	M204



Focus Dg tile

#### Acoustic

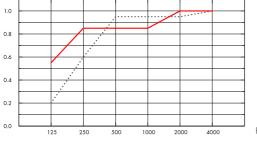


#### Sound Absorption:

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 Dg system

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



Section of Focus Dg with Connect T24

HD Main runner

····· Focus Dg 20 mm, 65 mm o.d.s.

- Focus Dg 20 mm, 200 mm o.d.s.

Focus Dg with Connect Angle trim Ultra matt black

o.d.s = overall depth of system

ТНК	o.d.s. mm		α <sub>p</sub> , Pr	actical sound	α	Sound absorption class			
mm	0.0.5. 11111	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	~~ <sub>W</sub>	Sound absorption class
20	65	0.20	0.60	0.95	0.95	0.95	1.00	0.90	A
20	200	0.55	0.85	0.85	0.85	1.00	1.00	0.90	A

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

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



#### **Indoor Air Quality**

Certificate / Label	
Eurofins Indoor Air Comfort®	IAC
French VOC	А
Finnish M 1	•



#### **Environmental Footprint**

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

 $\alpha_{p}$ , Practical sound absorption coefficient

© Saint-Gobain Ecophon AB



#### Circularity

)	Minimum post-consumer recycled content	59%
	Recyclability	Fully recyclable

#### Fire safety

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



#### **Humidity Resistance**

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



#### Visual appearance

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



#### Cleanability

Daily dusting and vacuum cleaning. Weekly wet wiping.



#### Accessibility

The tiles 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.



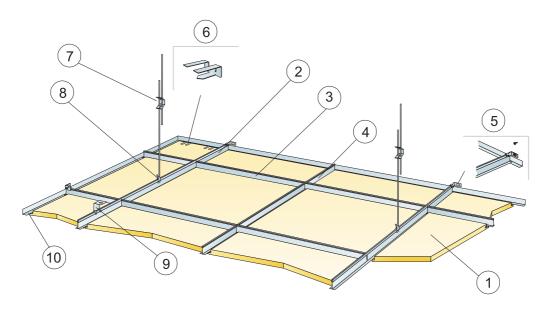
#### **Mechanical properties**

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

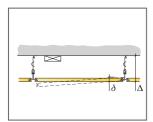


#### CE

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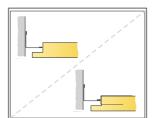


	Size, mm	
	600×600	1200×600
Focus Dg	2,8/m²	1,4/m²
2 Connect T24 Main runner HD, installed at 1200 mm centres (max. distance from wall 600 mm, can be extended up to 1200 mm if no live load between Ma runner and wall).	in 0,9m/m²	0,9m/m²
3 Connect T24 Cross tee, L=1200 mm, installed at 600 mm centres	1,7m/m²	1,7m/m²
Connect T24 Cross tee, L=600 mm	0,9m/m²	-
5 Connect Wall Bracket for T-profiles	1/suspended ra	ow 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
3 Connect Hanger Clip (not to be used in swimming hall environments)	0,7/m²	0,7/m²
P For direct installation: Connect Direct Bracket, installed at 1200 mm centres	0,7/m²	0,7/m²
0 Connect Angle trim, fixed at 300 mm centres	as required	as required
$\Delta$ Min. overall depth of system, with Adjustable hanger: 115 mm, with Direct bracket: 65 mm		-
$\delta$ Min. demounting depth: 30 mm		-
For luminaire integration in panels use Connect Bridging		



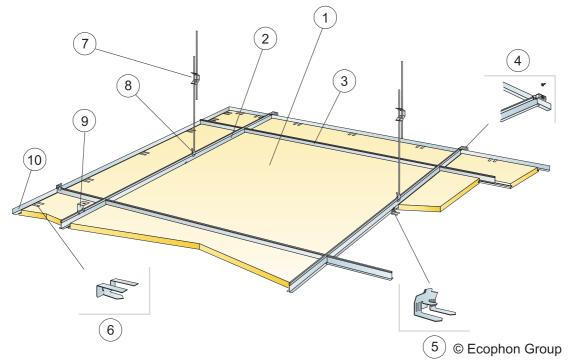
See Quantity specification



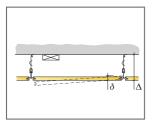


Cut edge with and without support clip



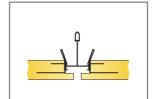


	Size, mm
	1200×1200
Focus Dg	0,7/m²
2 Connect T24 Main runner HD, installed at 1200 mm centres (max. distance from wall 600 mm, can be extended up to 1200 mm if no live la wall).	oad between Main runner and0,9m/m²
Connect T24 Cross tee, L=1200 mm, installed at 1200 mm centres	0,9m/m²
Connect Wall Bracket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

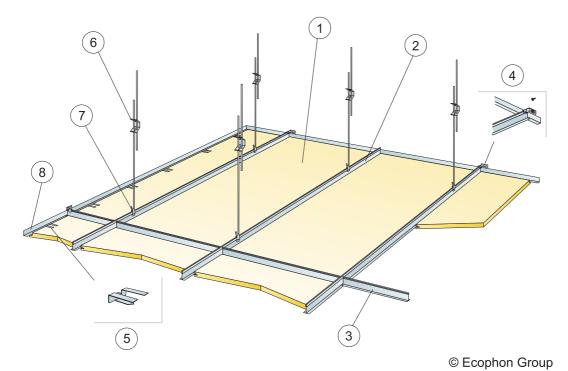


See Quantity specification

Cutting tool Dg

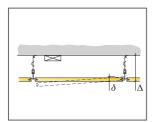


Joint between two unsupported edges with Edge clip Size, mm Max live Min load bearing load (N) capacity (N) 1200x1200x25 50 160



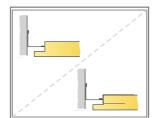
#### QUANTITY SPECIFICATION (EXCL. WASTAGE)

	Size, mm				
	1600×600	1800×600	2000×600	2400×600	
1 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/m²	0,45m/m²	
4 Connect Wall Bracket for T-profiles	1/suspended ro	1/suspended row of Main runner			
5 Connect Support clip Dg20	1pc/300-400 m	1 pc/300-400 mm on every cut perimeter tile with only 1 supporting edge			
6 Connect Adjustable hanger, installed at 1500 mm centres (max. distance from wall 450 mm)	1,1/m²	1,1/m <sup>2</sup> 1,1/m <sup>2</sup> 1,1/m <sup>2</sup> 1,1/m <sup>2</sup>			
7 Connect Hanger clip	1,1/m²	1,1/m²	1,1/m²	1,1/m²	
8 Connect Angle trim, fixed at 300 mm centres	as required	as required	as required	as required	
$\Delta$ Min. overall depth of system: 115 mm	-	-	-		
$\delta$ Min. demounting depth: 30 mm	-				



See Quantity specification

Cutting tool Dg



Cut edge with and without support clip

1600x600x20         50         160           1800x600x20         50         160           2000x600x20         50         160	ze, mm	Max live load (N)	Min load bearing capacity (N)
	00x600x20	50	160
2000-600-20 50 160	00x600x20	50	160
2000x000x20 30 100	00x600x20	50	160
2400x600x20 50 160	100x600x20	50	160



### Ecophon Focus<sup>™</sup> D/A

Ecophon Focus<sup>™</sup> DA features an edge D on the long side and edge A on the short side. Each panel is individually demounted. Fulfills the strictest functional and aesthetic demands. Especially developed for corridor and bandraster solutions where long panels are required.



#### SYSTEM RANGE

Size, mm	XL 2000x600	XL 2400x600
T24	•	•
Thickness (THK)	20	20
Inst. Diagr.	M17	M17



Focus D/A for Bandraster

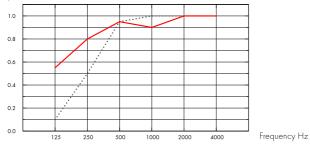
#### Acoustic



#### Sound Absorption:

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

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



···· Focus D/A 20 mm, 60 mm o.d.s.

- Focus D/A 20 mm, 200 mm o.d.s.
- o.d.s = overall depth of system

ТНК	o.d.s. mm	${f lpha}_{ m p'}$ Practical sound absorption coefficient						α	Sound absorption class
mm	0.0.3. 11111	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	~~ <sub>W</sub>	
20	60	0.10	0.50	0.95	1.00	1.00	1.00	0.80	A
20	200	0.55	0.80	0.95	0.90	1.00	1.00	0.95	A

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

THK	AC(1.5)	D <sub>nfw</sub>	CAC dB
mm		Weighted normalized flanking level difference, ISO 10848-2	Ceiling Attenuation Class, ASTM 1414, ASTM E413
20	180	24	25



#### **Indoor Air Quality**

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



#### **Environmental Footprint**

A	A	29	) 2020	
6	V	Ţ	(	

kg CO2 equiv/m²
4,32

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

Focus DA



#### 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.



#### **Humidity Resistance**

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



#### Visual appearance

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



#### Cleanability

Daily dusting and vacuum cleaning. Weekly wet wiping.



#### Accessibility

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



#### Installation

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



#### System weight

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



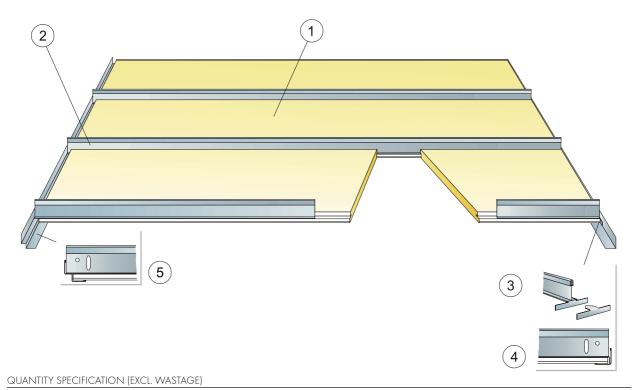
#### **Mechanical properties**

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

### CE

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.



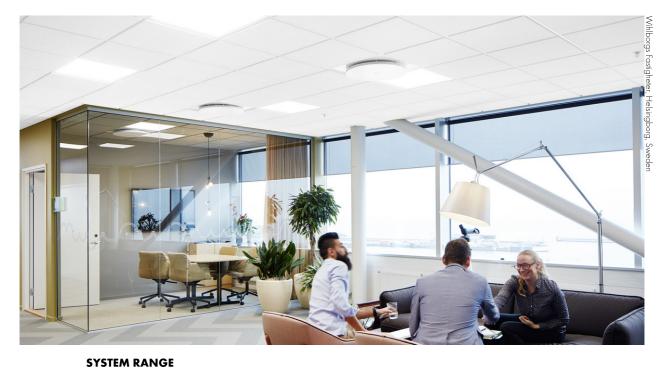
		Size, mm	
		2000×600	2400×600
1	Focus D/A for corridors	0,85/m²	0,7/m²
2	Connect T24 Corridor profile, installed at 600 mm centres	0,85/m²	0,7/m²
3	Connect End fixing plate	1,7/m²	1,4/m²
4	Connect Angle trim, fixed at 200 mm centres	as required	as required
5	Connect Shadow-line trim, fixed at 200 mm centres	as required	as required
	$\Delta$ Min. overall depth of system: 50 mm	-	-
	$\delta$ Min. demounting depth: 75 mm		

Size, mm	Max live load (N)	Min load bearing capacity (N)
2000x600x20	10	-
2400x600x20	0	



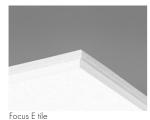
# Ecophon Focus<sup>™</sup> E

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.



3	I	3	'	E <i>I</i> M	

₽~9 24/15	Size, mm	600x600	625x625	1200x600	1200x1200	XL 1600x600	XL 1 800×600	XL 2000x600	XL 2400x600
24/15	Connect T15	•		•	•				
	Connect T24	•	•	•	•	•	•	•	•
	Thickness (THK)	20	20	20	20	20	20	20	20
	Inst. Diagr.	M12	M12 DIN	M12	M12	M47, M49	M47, M49	M47, M49	M47, M49



Section of Focus E system with Connect







Focus E with Connect Angle trim

#### Acoustic

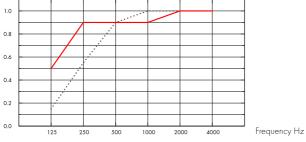


#### **Sound Absorption:**

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.

 $lpha_{_{D'}}$  Practical sound absorption coefficient

T24



···· 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 o.d.s. mm $\alpha_{p'}$ Practical sound absorption coefficient $\alpha_{w}$ Sound											
	тнк				$lpha_{p'}$ P	ractical soun	α	Sound absor			
	mm	n 0.0.3. mm	im 0.0.3. mm	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	u.,,	

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

ТН	AC(1.5)	D <sub>nfw</sub>	CAC dB
mm		Weighted normalized flanking level difference, ISO 10848-2	Ceiling Attenuation Class, ASTM 1414, ASTM E413
20	180	22	23



#### **Indoor Air Quality**

Certifi	icate / Label		Plant	SOOR ANR COARGE	ÉMISSIONS DANS L'AIR INTÉRIEUR
Eurofi	ns Indoor Air Comfort®	IAC	IAC Gold	REAL PROPERTY	
French	n VOC	А	A+		
Finnis	n M l	•	•	-	



### **Environmental Footprint**

)°		kg CO2 equiv/m²
	Focus E	3,66
	Focus E/Plant	2,35

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



#### Circularity

5	Minimum post-consumer recycled content	55%
-	Recyclability	Fully recyclable

### Fire safety

	Country		Class	The glass wool core of the tiles is tested and classified as non-combustible according to EN ISO 1182.
r	Europe	EN 13501-1	A2-s1,d0	non-compusible according to LTV 150-1182.



#### Humidity Resistance

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



#### Visual appearance

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



#### Cleanability

Daily dusting and vacuum cleaning. Weekly wet wiping.



#### Accessibility

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



#### Installation

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



#### System weight

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

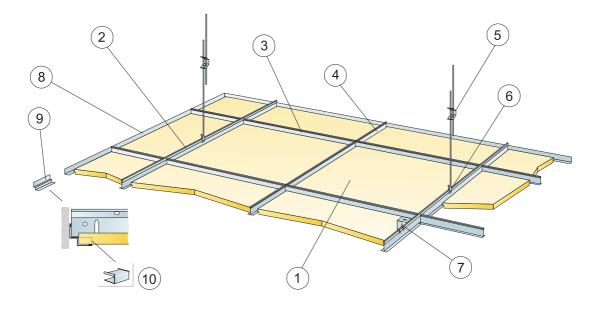


#### **Mechanical properties**

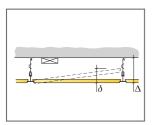
See table about Max live load and Min load bearing capacity and Functional demands, Mechanical properties at www.ecophon.com.

### 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.

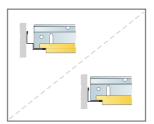


		Size, mm		
		600×600	1200×600	1200×1200
1	Focus E T24 or T15	2,8/m²	1,4/m²	0,7/m²
2	Connect T24 or T15 Main runner, installed at 1200 mm centres (max. distance from wall 600 mm, can be extended up to 1200 mm if no live load between Main runner and wall).	0,9m/m²	0,9m/m²	0,9m/m²
3	Connect T24 or T15 Cross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



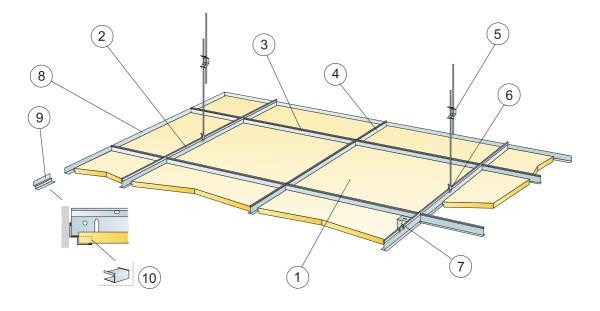
See Quantity specification

Cutting tool E



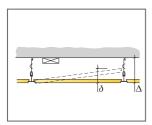
Tegular rebate with angle trim and T-profile on foot of shadow-line trim.

Size, mm	load (N)	1 7 1 7
600x600x20	50	160
1200x600x20	50	160
1200x1200x20	50	160



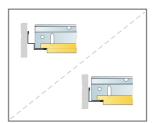
#### © Ecophon Group

QU	ANTITY SPECIFICATION (EXCL. WASTAGE)	
		Size, mm
		625×625
1	Focus E T24 or T15	2,6/m²
2	Connect T24 Main Runner, installed at 1250 mm centres for DIN (only white profiles)	0,8m/m²
3	Connect T24 or T15 Cross Tee, L=1250 mm, installed at 625 mm centres	l,óm/m²
4	Connect T24 or T15 Cross Tee, L=625 mm	0,8m/m²
5	Connect Adjustable Hanger, installed at 1250 mm centres (max. distance from wall 600 mm)	0,7/m²
6	Connect Hanger Clip (not to be used in swimming hall environments)	0,7/m²
7	For direct installation: Connect Direct Bracket, installed at 1250 mm centres	0,7/m²
8	Connect Angle trim, fixed at 300 mm centres	as required
9	Connect Shadow-line trim, fixed at 300 mm centres	as required
10	Connect E-plug (for Shadow-line trim)	as required
	$\Delta$ Min. overall depth of system, with adjustable hanger: 110 mm, with direct bracket: 60 mm	
	$\delta$ Min. demounting depth: 120 mm	
	For luminaire integration in panels use Connect Bridging	



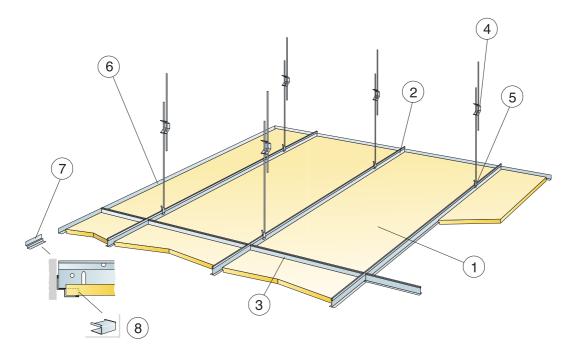
See Quantity specification

Cutting tool E



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

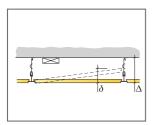
Size, mm Max live Min load bearing load (N) capacity (N) 625x625x20 35 160



#### © Ecophon Group

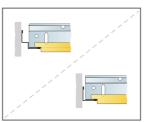
#### QUANTITY SPECIFICATION (EXCL. WASTAGE)

	Size, mm			
	1600×600	1800×600	2000×600	2400×600
1 Focus E	1,05/m²	0,95/m²	0,85/m²	0,7/m²
2 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/m²	0,45m/m²
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
6 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
8 Connect E-plug (for Shadow-line trim)	as required	as required	as required	as required
$\Delta$ Min. overall depth of system: 110 mm				
$\delta$ Minimum demounting depth: 110 mm				-



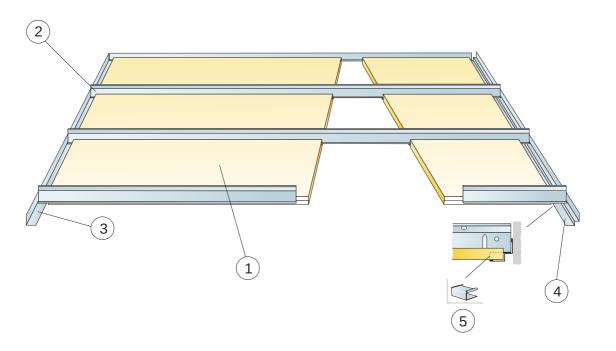
See Quantity specification

Cutting tool E



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

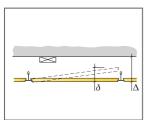
Size, mm	Max live load (N)	Min load bearing capacity (N)
1600x600x20	50	160
1800x600x20	50	160
2000x600x20	50	160
2400x600x20	50	160



#### © Ecophon Group

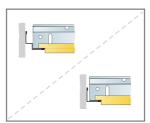
#### QUANTITY SPECIFICATION (EXCL. WASTAGE)

		Size, mm	Size, mm		
		1600×600	1800×600	2000x600	2400x600
1	Focus E	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
1	Connect Shadow-line trim, fixed at 200 mm centres	as required	as required	as required	as required
5	Connect E-plug (for Shadow-line trim)	as required	as required	as required	as required
	$\Delta$ Min. overall depth of system: 50 mm				
	$\delta$ Min. demounting depth: 75 mm			-	



See Quantity specification

Cutting tool E



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

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



## Ecophon Focus<sup>™</sup> Ez

Ecophon Focus™ Ez has a recessed visible grid with diagonal edge design, creating a new design feature to the ceiling. For applications with high demands on good acoustics and speech intelligibility.

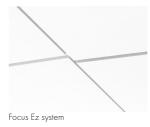


#### SYSTEM RANGE

	Size, mm	
24		600x600
	T24	•
	Thickness (THK)	40
	Inst. Diagr.	M393







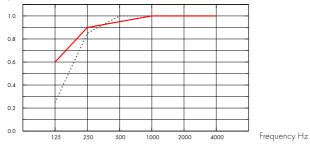
#### Acoustic



#### **Sound Absorption:**

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

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



···· Focus Ez 40 mm, 60 mm o.d.s.

- Focus Ez 40 mm, 200 mm o.d.s.
- o.d.s = overall depth of system

ТНК	o.d.s. mm	$lpha_{ m p'}$ Practical sound absorption coefficient					α	Sound absorption class	
mm	0.0.5. 11111	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	$\alpha_{w}$	
40	60	0.25	0.85	1.00	1.00	1.00	1.00	1.00	A
40	200	0.60	0.90	0.95	1.00	1.00	1.00	1.00	A

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

T⊢	ЧК	AC(1.5)	D <sub>nfw</sub>	CAC dB
	im	Articulation Class, ASTM E1111, ASTM E1110	Weighted normalized flanking level difference, ISO 10848-2	Ceiling Attenuation Class, ASTM 1414, ASTM E413
4	.0	200	29	31



#### **Indoor Air Quality**

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



#### **Environmental Footprint**

		kg CO2 equiv/m²	
•	Focus Ez	5	i,9

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



#### Circularity

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



#### Fire safety

Country		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, installation guides and drawing aid. For information regarding minimum overall depth of system see quantity specification.



#### System weight

The weight of the system (including suspension grid) should be approximately 5 kg/m  $^2$ 



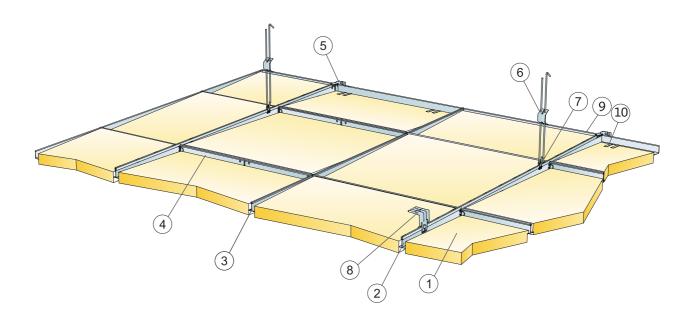
#### **Mechanical properties**

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

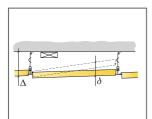
### CE

CE

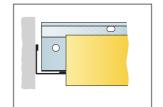
Ecophon ceiling systems are CE marked according to the European harmonized standard EN13964:2014. CE marked construction products are covered by a Declaration of Performance (DOP) which enables customers and users to easily compare performance of products available on the European market.



	Size, mm
	600×600
1 Focus Ez	2,8/m²
2 Connect T24 Main runner, installed at 1200 mm centres (max. distance from wall 600 mm, can be extended up to 1200 mm if no live load between Main runner and wall).	0,9m/m²
3 Connect T24 Cross tee, L=1200 mm, installed at 600 mm centres	1,7m/m²
4 Connect T24 Cross tee, L=600 mm	0,9m/m²
5 Connect Wall Bracket for T-profiles	1/suspended row of Main runner
6 Connect Adjustable Hanger, installed at 1200 mm centres (max. distance from wall 600 mm)	0,7/m²
7 Connect Hanger Clip (not to be used in swimming hall environments)	0,7/m²
8 For direct installation: Connect Direct Bracket, installed at 1200 mm centres	0,7/m²
9 Connect Angle trim, fixed at 300 mm centres	as required
10 Connect Support clip DG25	2/300-400mm on any cut edge
$\Delta$ Min. overall depth of system, with Adjustable hanger: 110 mm, with Direct bracket: 80 mm	
$\delta$ Min. demounting depth; 80 mm	



Cut edge with Connect Support clip Dg25



Size, mm

Wall connection non-supported edge

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

Live load/load bearing capacity

See Quantity specification



## Ecophon Focus<sup>™</sup> 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.





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









Focus F tile

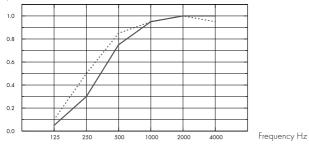
#### Acoustic



#### Sound Absorption:

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

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



- 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

ТНК	o.d.s. mm	${f lpha}_{ m p'}$ Practical sound absorption coefficient						α	Sound absorption class
mm	0.0.3. 1111	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz		
20	20	0.05	0.30	0.75	0.95	1.00	1.00	0.60	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

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



#### **Environmental Footprint**

	kg CO2 equiv/m²
Focus F	4,90

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

#### Circularity

Minimum post-consumer recycled content	59%
Recyclability	Fully recyclable



#### **Fire safety**

Country		Class	The glass wool core
Europe	EN 13501-1	A2-s1,d0	non-combustible ac

re of the tiles is tested and classified as ccording to EN ISO 1182.



#### **Humidity Resistance**

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



#### **Visual appearance**

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



#### Cleanability

Daily dusting and vacuum cleaning. Weekly wet wiping.



#### Accessibility

The tiles are not demountable.



#### Installation

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



#### System weight

The weight of the system should be approximately 2,5 kg/m<sup>2</sup>

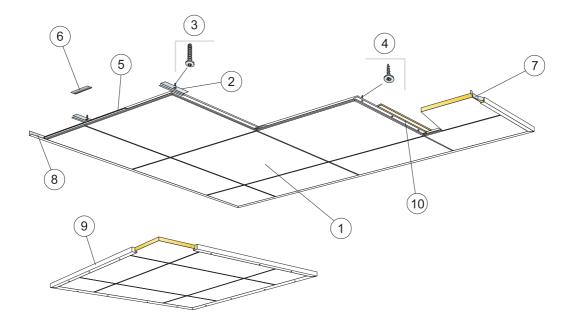


#### **Mechanical properties**

Additional live load has to be fixed to the soffit.

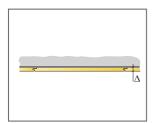


CE Ecophon ceiling systems are CE marked according to the European harmonized standard EN13964:2014. CE marked construction products are covered by a Declaration of Performance (DOP) which enables customers and users to easily compare performance of products available on the European market.

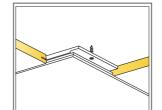


### © Ecophon Group

		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
	$\Delta$ Min. overall depth of system: 20 mm		-
	$\delta$ Min. demounting depth: The system is not demountable	-	



Installation in concrete



Installation in plasterboard or timber



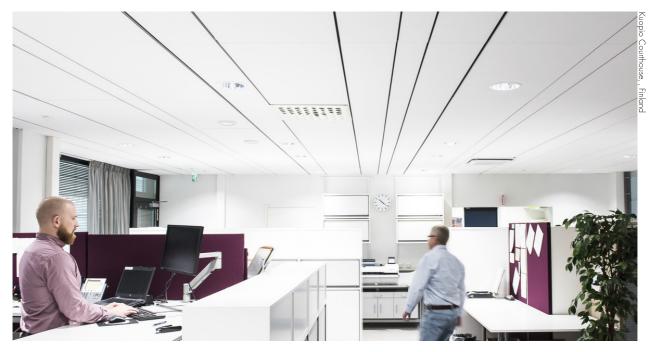
Live load/load bearing capacity

See Quantity specification



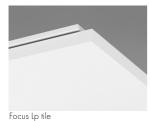
# Ecophon Focus<sup>™</sup> Lp

Ecophon Focus<sup>™</sup> 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<sup>™</sup> Lp tiles and Focus<sup>™</sup> Lp Technical tiles.



SYSTEM RANGE

	Size, mm	600x150	600x300	600x600	1200x150	1200x300	1200x600	XL 1800x600
11/20	T24	•	•	•	•	•	•	•
	Thickness (THK)	20	20	20	20	20	20	20
	Inst. Diagr.	M391	M391	M390, M391	M391	M390, M391	M390, M391	M392









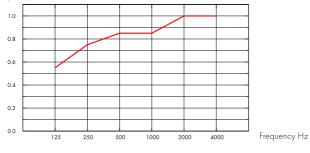
#### Acoustic



#### **Sound Absorption:**

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

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



- Focus Lp 20 mm, 200 mm o.d.s.

o.d.s = overall depth of system

ТНК	o.d.s. mm		d absorption c	absorption coefficient			Sound absorption class		
mm	0.0.3. 11111	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	α,,,	
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

тнк	AC(1.5)	D <sub>nfw</sub>	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	SOOR AIR COARC
Eurofins Indoor Air Comfort®	IAC	RATIFICO PRON
French VOC	A	
Finnish M1	•	-



#### **Environmental Footprint**

On			
		kg CO2 equiv/m²	Life-cycle stages A1 to C4 from EPD, in conformity with ISO 14025 / EN 15804
-	Focus Lp	4,66	14025 / LIN 15604



#### 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.



#### **Humidity Resistance**

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



#### Visual appearance

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



#### Cleanability

Daily dusting and vacuum cleaning. Weekly wet wiping.



#### Accessibility

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



#### Installation

Installed according to installation diagrams, installation guides and drawing aid. For information regarding minimum overall depth of system see quantity specification. The systems are not recommended for small rooms (approximately 2x2 m2). Ceilings with a large amount of integrations require careful planning, design and installation.



#### System weight

The weight of the system (including suspension grid) should be approximately 3-4 kg/m<sup>2</sup>.



#### **Mechanical properties**

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

### F

CE

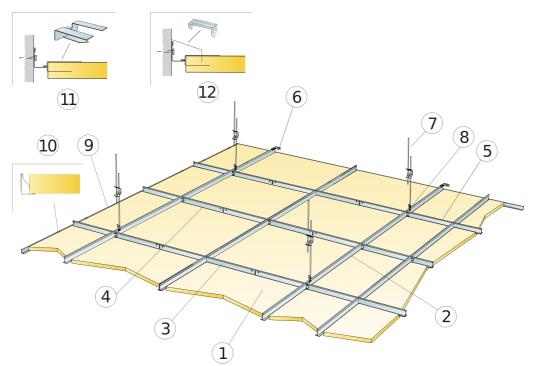
Ecophon ceiling systems are CE marked according to the European harmonized standard EN13964:2014. CE marked construction products are covered by a Declaration of Performance (DOP) which enables customers and users to easily compare performance of products available on the European market.



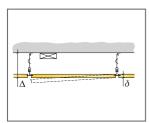
#### Indoor Air Quality

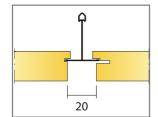
Certificate / Label	Standard
Eurofins Indoor Air Comfort®	IAC
French VOC	A
Finnish M1	•





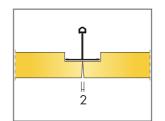
		Size, mm		
		600×600	1200×300	1200×600
1	Focus lp	2,8/m²	2,8/m²	1,4/m²
2	Connect T24 Main runner, installed at 1200 mm centres (max distance from wall 600 mm)	0,9m/m²	0,9m/m²	0,9m/m²
3	Connect T24 Cross tee L=1200 mm	1,7m/m²	3,4m/m²	1,7m/m²
4	Connect T24 Cross tee, L=600 mm	0,9m/m²	-	-
5	Connect T24 Cross tee, L=300 mm	-	-	-
6	Connect Wall Bracket for T-profiles	1/suspended row of Main runner		
7	Connect Adjustable Hanger, installed at 1200 mm centres [max. distance from wall 600 mm]	) 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
9	Connect Angle trim, fixed at 300 mm centres	as required	as required	as required
1C	) Connect Wall spring	2 pcs/on every cut perimeter tile w	th only 1 supporting edge	
11	Connect Support clip Dg20	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 edge		
	$\Delta$ Min. overall depth of system: 115 mm			
	$\delta$ Min. demounting depth: 20 mm			
	For luminaire integration in panels use Connect Bridging			
_				





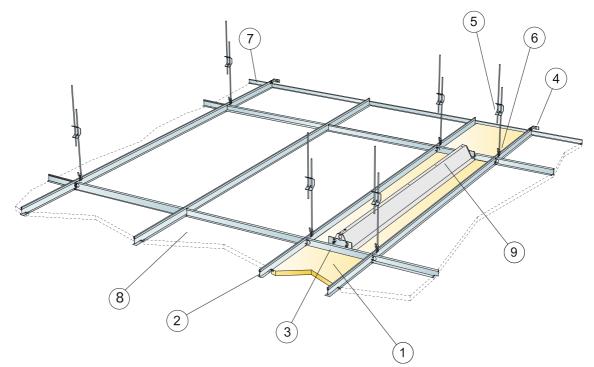
See Quantity specification

Distance between Focus Lp tiles

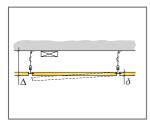


Non-supported edges meeting with space for cross-tee.

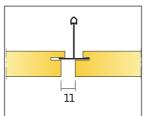
Size, mm 600x600x20	Max live load (N) 30	Min load bearing capacity (N) 160
1200x300x20	30	160
1200x600x20	30	160



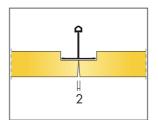
	Size, mm					
	600x150	600x300	600x600	1200×150	1200x300	1200x600
1 Focus Lp Technical tile	11,1/m²	5,6/m²	2,8/m²	5,6/m²	2,8/m²	1,4/m²
2 Connect T24 Main runner	6,7m/m²	3,35m/m²	1,7m/m²	6,7m/m²	3,35m/m²	1,7m/m²
3 Connect T24 Cross tee, L=150/300/600 mm	1,7m/m²	1,7m/m²	1,7m/m²	0,85m/m²	0,85m/m²	0,85m/m²
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
7 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)	-					-
P Ecophon line Lp	-					-
$\Delta$ Min. overall depth of system: 105 mm [190 mm when using Connect Space bar connector]		-	-	-	-	-
$\delta$ 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.	- 1	-	-	-		-
For integration with a unbroken luminaire, width smaller than 300 mm use Connect Spacebar connector, max height 75 mm						-



See Quantity specification

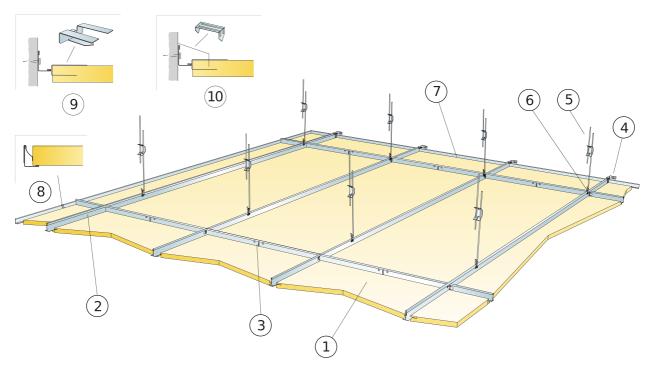


Distance between Focus Lp and Focus Lp Technical tile

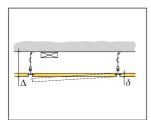


Non-supported edges meeting with space for cross-tee.

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

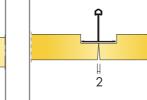


		Size, mm
		1800×600
1	Focus lp	0,95/m²
2	Connect T24 Main runner, installed at 600 mm centres	1,7m/m <sup>2</sup>
3	Connect T24 Cross tee, L=600 mm	0,6m/m²
4	Connect Wall Bracket for T-profiles	1/suspended row of Main runner
5	Connect Adjustable hanger, installed at 1500 mm centres (max. distance from wall 450 mm)	l,l/m <sup>2</sup>
6	Connect Hanger Clip (not to be used in swimming hall environments)	0,7/m <sup>2</sup>
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
	$\Delta$ Min. overall depth of system: 115 mm	
	$\delta$ Min. demounting depth: 20 mm	
	For luminaire integration in panels use Connect Bridging	



Distance between Focus Lp tiles

See Quantity specification



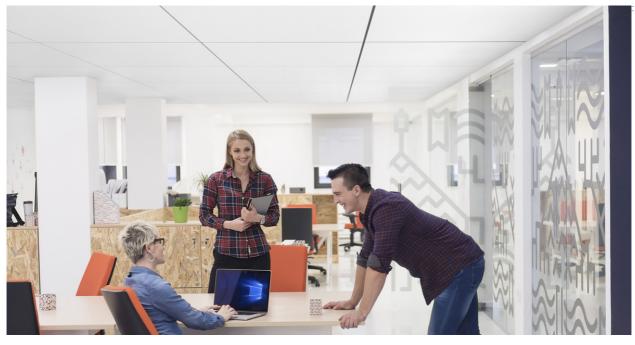
Non-supported edges meeting with space for cross-tee.

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



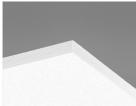
## Ecophon Focus<sup>™</sup> SQ

Ecophon Focus<sup>™</sup> 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

50 8 8	Size, mm	600x600	1200x600
	Direct	•	•
	Thickness (THK)	20	20
	Inst. Diagr.	M107	M107







Focus SQ tile

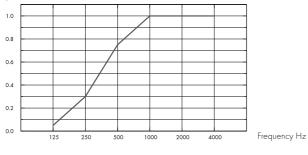
#### Acoustic



#### Sound Absorption:

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

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



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

ТНК	o.d.s. mm	$lpha_{ m p^\prime}$ Practical sound absorption coefficient										
mm	0.0.3. 11111	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	$\alpha_{w}$				
20	23	0.05	0.30	0.75	1.00	1.00	1.00	0.60	С			

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

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



#### Indoor Air Quality

Certificate / Label		and the second
Eurofins Indoor Air Comfort®	IAC	CRATI
French VOC	А	
Finnish M1	•	



#### **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 / LIN 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.



#### **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  $\rm kg/m^2$ 



#### **Mechanical properties**

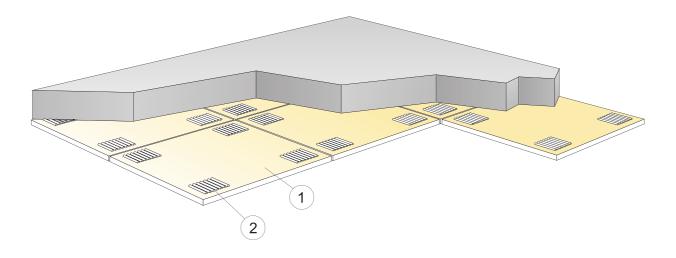
Additional live load has to be fixed to the soffit.

### CE

CE

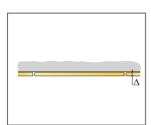
Ecophon ceiling systems are CE marked according to the European harmonized standard EN13964:2014. CE marked construction products are covered by a Declaration of Performance (DOP) which enables customers and users to easily compare performance of products available on the European market.

#### INSTALLATION DIAGRAM (M107) FOR ECOPHON FOCUS SQ, USING CONNECT ABSORBER GLUE

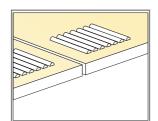


#### © Ecophon Group

#### QUANTITY SPECIFICATION (EXCL. WASTAGE) Size, mm 600×600 1200x600 2,8/m² 1,4/m² Focus SQ 2 Connect Absorber glue (0,25 l/m² - 0,4 l/m² depending on installation conditions) as required as required Use Connect Notched spatula to apply the glue. $\Delta$ Min. overall depth of system: 23 mm $\delta$ Min. demounting depth: The system is not demountable Visible edges should be painted \* Panel Module size 600x600 (592x592), 1200x600 (1192x592)



See Quantity specification



Application of glue

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



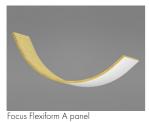
### Ecophon Focus<sup>™</sup> Flexiform A

Ecophon Focus<sup>™</sup> 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
Ť	T24	•	•	•	•
	Thickness (THK)	30	30	30	30
	Inst. Diagr.	M31, M31ec, M31ic	M31, M31ec, M31ic	M31, M31ec, M31ic	M31, M31ec, M31ic







Acoustic

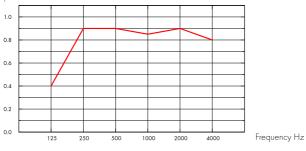


Acoustic values corresponding to a flat ceiling.

#### 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.

 $lpha_{_{
m D'}}$  Practical sound absorption coefficient



- Focus Flexiform A 30 mm, 200 mm o.d.s.

o.d.s = overall depth of system

ТНК	o.d.s. mm		$lpha_{ m p'}$ Practical sound absorption coefficient					a., Sound absorption class				$\alpha_{w}$
mm		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	. u. <sub>w</sub>				
30	200	0.40	0.90	0.90	0.85	0.90	0.80	0.90	A			

ТНК	D <sub>nfw</sub>	CAC dB
mm	Weighted normalized flanking level difference, ISO 10848-2	Ceiling Attenuation Class, ASTM 1414, ASTM E413
20	24	25

#### **Environmental Footprint**

	kg CO2 equiv/m²	Life-cycle stages A1 to C4 from EPD, in conformity with ISO 14025 / EN 15804
Focus Flexiform A	3,1	- 14023 / EIN 13804



#### Circularity

Minimum post-consumer recycled content	39%
Recyclability	Fully recyclable



#### **Fire safety**

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



#### **Humidity Resistance**

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



#### **Visual appearance**

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



#### Cleanability

Daily dusting and vacuum cleaning. Weekly wet wiping.



#### Accessibility

The tiles are 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.



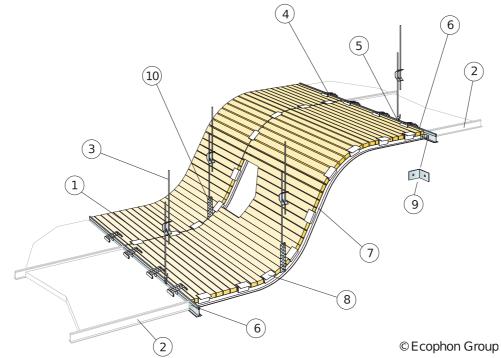
#### **Mechanical properties**

Additional live load has to be fixed to the soffit.

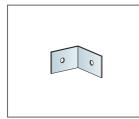


### CE

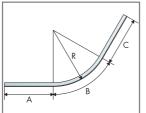
Ecophon ceiling systems are CE marked according to the European harmonized standard EN13964:2014. CE marked construction products are covered by a Declaration of Performance (DOP) which enables customers and users to easily compare performance of products available on the European market.



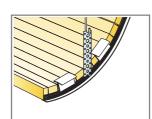
	Size, mm	Size, mm		
	1200x600	1600×600	2000×600	2400×600
1 Focus Flexiform A	as required	as required	as required	as required
2 Connect T24 Cross tee (adjacent ceiling)	as required	as required	as required	as required
3 Connect Adjustable hanger, installed at 1200 mm centres	as required	as required	as 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
6 Connect T24 Main runner	1,8m/m²			-
7 Connect Flexiform profile/Flexible Flexiform profile , installed at 600 mm centres.	as required	as required	as required	as required
8 Connect Flexiform clip, fixed at 100-300 mm (depending on the radius of curve)	as required	as required	as required	as required
9 Connect Angle bracket	as required	as required	as required	as required
10 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.	÷ -	-		



Connect Angle bracket

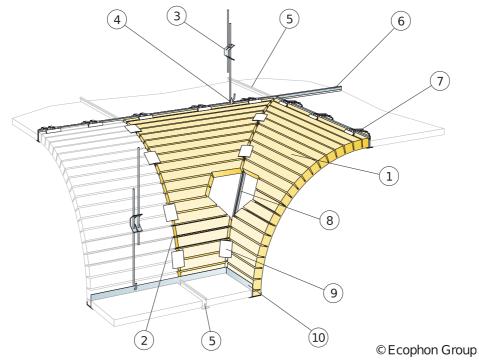


Example with dimensions of Flexiform profile

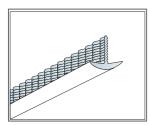


Suspension with metal strip

1200x600x30		
1200x600x30	0	160
1600x600x30	0	160
2000x600x30	0	160
2400x600x30	0	160

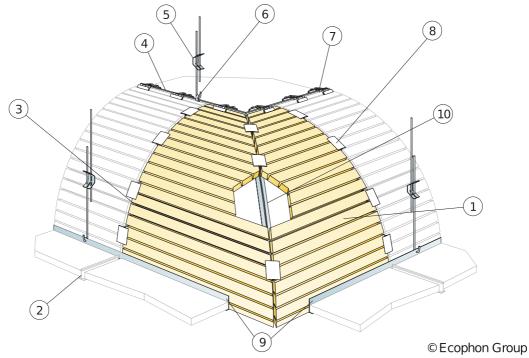


	Size, mm	Size, mm		
	1200×600	1600×600	2000×600	2400×600
1 Focus Flexiform A	as required	as required	as required	as required
2 Connect Flexiform profile/Flexible Flexiform profile , installed at 600 mm centres.	as required	as required	as required	as required
3 Connect Adjustable hanger, installed at 1200 mm centres	as required	as required	as required	as required
4 Connect Hanger clip	as required	as required	as required	as required
5 Connect T24 Cross tee (adjacent ceiling)	as required	as required	as required	as required
6 Connect T24 Main runner	1,8m/m²			-
7 Connect Clip 100/20	as required	as required	as required	as required
3 Connect Flexible external corner profile	as required	as required	as required	as required
9 Connect Flexiform clip, fixed at 100-300 mm (depending on the radius of curve)	as required	as required	as required	as required
10 Connect F-trim F	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.				

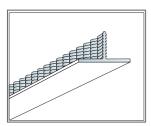


Profile for external corner

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



	Size, mm	Size, mm		
	1200×600	1600x600	2000×600	2400×600
1 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 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/m²	-	-	-
5 Connect Adjustable hanger, installed at 1200 mm centres	as required	as required	as required	as required
6 Connect Hanger clip	as required	as required	as required	as required
7 Connect Clip 100/20	as required	as required	as required	as required
8 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 , installed at 600 mm centres.	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.	-	-	-	-



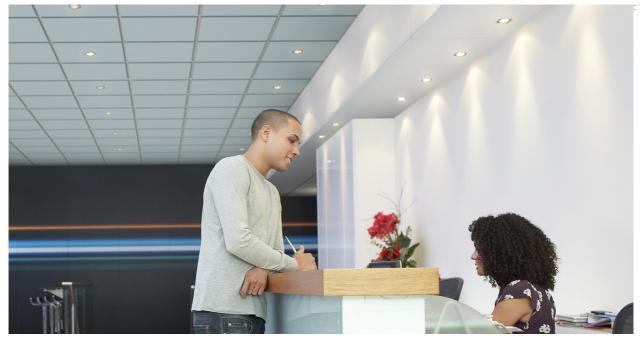
Profile for internal corner

1200x600x30	load (N) 0	capacity (N) 160
1200x000x30	0	100
1600x600x30	0	160
2000x600x30	0	160
2400x600x30	0	160



## Ecophon Focus<sup>™</sup> Fixiform E

Ecophon Focus<sup>™</sup> 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
Т24	•
Thickness (THK)	20
Inst. Diagr.	M276









Focus Fixiform panel

#### Acoustic

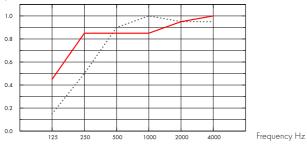


Acoustic values corresponding to a flat ceiling.

#### 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.

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



- ···· 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

ТНК	o.d.s. mm	$lpha_{ m p}$ , Practical sound absorption coefficient						α"	Sound absorption class
mm	0.0.5. 11111	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	~~ <sub>W</sub>	
20	60	0.15	0.50	0.90	1.00	0.95	0.95	0.80	В
20	200	0.45	0.85	0.85	0.85	0.95	1.00	0.90	A

тнк	D <sub>nfw</sub>	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	EMISSIONS DANS L'AIR INTÉRIEUR	
Eurofins Indoor Air Comfort®	IAC	
French VOC	А	
Finnish M1	•	-



#### 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.



#### **Humidity Resistance**

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



#### **Visual appearance**

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



#### Cleanability

Daily dusting and vacuum cleaning. Weekly wet wiping.



#### Accessibility

The panels are demountable via adjacent flat ceiling tiles.



#### Installation

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



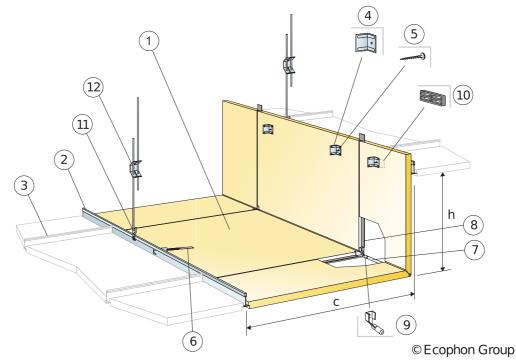
#### **Mechanical properties**

Additional live load has to be fixed to the soffit.

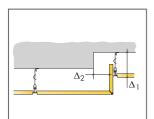


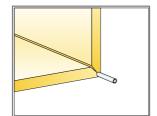
### CE

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



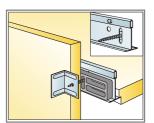
	Size, mm
	1200×600
Focus Fixiform E (kit)	as required
Connect T24 Main runner	1,8m/m²
Connect T24 Cross tee (adjacent ceiling)	as required
Angle Bracket Fixiform (included in Fixiform kit)	-
Absorber screw metal 50 (included in Fixiform kit)	-
Connect Hook (included in Fixiform kit)	-
Reinforcement rod (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
Connect Adjustable hanger, installed at 600 mm centres at the level change	1,4/m <sup>2</sup>
$\Delta$ Min. overall depth of system: $\Delta1\text{=}160$ mm and $\Delta2\text{=}80$ mm from upper level	
$\delta$ Min. demounting depth: Individual ceiling tiles are non-demountable	
Dimension: c=600 mm, h<530 mm	
	Connect T24 Main runner         Connect T24 Cross tee (adjacent ceiling)         Angle Bracket Fixiform (included in Fixiform kit)         Absorber screw metal 50 (included in Fixiform kit)         Connect Hook (included in Fixiform kit)         Connect Hook (included in Fixiform kit)         Connect F Spline (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 Hanger, installed at 600 mm centres at the level change         Δ Min. overall depth of system: Δ1=160 mm and Δ2=80 mm from upper level         δ Min. demounting depth: Individual ceiling tiles are non-demountable





See Quantity specification

The fold is reinforced by a rod



Upper level connection to Main runner

Size, mm load (N) capacity (N) 1200x600x20 0 160



## Ecophon Focus<sup>™</sup> Fixiform Ds

Ecophon Focus<sup>™</sup> 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

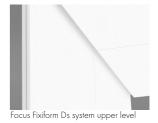
Size, mm	1200x600	XL 1 500x600	XL 1900x600	XL 2300x600
Т24	•	•	•	•
Thickness (THK)	20	20	20	20
Inst. Diagr.	M274	M275	M275	M275

-









Focus Fixiform panel

#### Acoustic

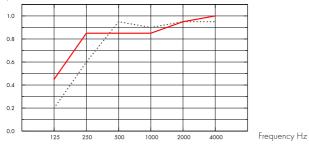


Acoustic values corresponding to a flat ceiling.

#### Sound Absorption:

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

 $lpha_{
m p\prime}$  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

ТНК	o.d.s. mm	$lpha_{ m p\prime}$ Practical sound absorption coefficient					$\alpha_{w}$	Sound absorption class	
mm O.a.s. III	0.0.3. 11111	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	~~ <sub>w</sub>	
20	75	0.20	0.60	0.95	0.90	0.95	0.95	0.90	A
20	200	0.45	0.85	0.85	0.85	0.95	1.00	0.90	A

ТНК	D <sub>nfw</sub>	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	
Eurofins Indoor Air Comfort®	IAC
French VOC	А
Finnish M1	•





#### Circularity

Minimum post-consumer recycled content	57%
Recyclability	Fully recyclable



#### Fire safety

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



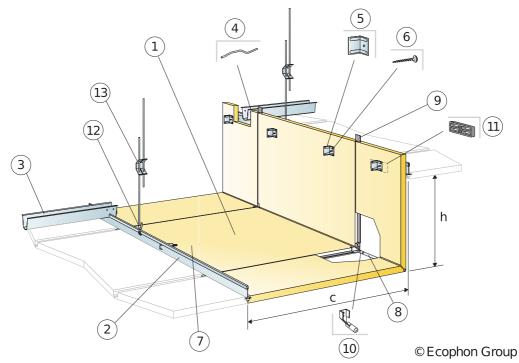
#### **Mechanical properties**

Additional live load has to be fixed to the soffit.

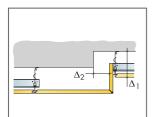


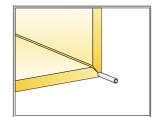
### CE

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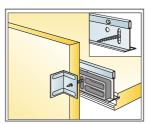
		Size, mm
		1200×600
1	Focus Fixiform Ds (kit)	as required
2	Connect T24 Main runner HD	as required
	Connect Space bar, installed at 1500 mm centres (max. distance from wall 300 mm)	as required
L	Connect Space bar winch, installed one per joint Main runner/Space bar	as required
i	Angle Bracket Fixiform (included in Fixiform kit)	-
,	Absorber screw metal 50 (included in Fixiform kit)	-
	Connect Hook (included in Fixiform kit)	-
	Reinforcement rod (included)	-
	Connect F Spline (included in Fixiform kii)	
0	Plug for reinforcement rod (included)	-
1	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
	$\Delta$ Min. overall depth of system: $\Delta$ 1=165 mm and $\Delta$ 2=80 mm from upper level	-
	$\delta$ Min. demounting depth: Individual ceiling tiles are non-demountable	
	Dimension: c=600 mm, h<530 mm	





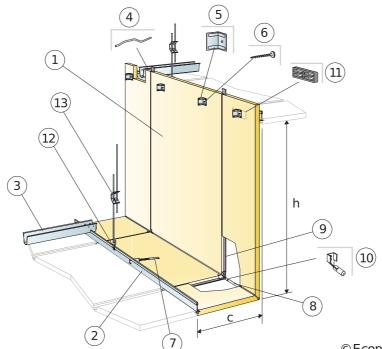
See Quantity specification

The fold is reinforced by a rod



Upper level connection to Main runner

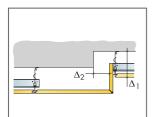
Size, mm Max live Min load bearing load (N) capacity (N) 1 200x600x20 0 160

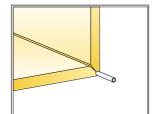


# © Ecophon Group

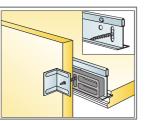
QUANTITY SPECIFICATION (EXCL. WASTAGE)

		Size, mm	Size, mm	
		1500×600	1900×600	2300×600
1	Focus Fixiform Ds XL (kit)	as required	as required	as required
2	Connect T24 Main runner HD	as required	as required	as required
3	Connect Space bar, installed at 1500 mm centres (max. distance from wall 300 mm)	as required	as required	as required
4	Connect Space bar winch, installed one per joint Main runner/Space bar	as required	as required	as required
5	Angle Bracket Fixiform (included in Fixiform kit)			-
6	Absorber screw metal 50 (included in Fixiform kit)			-
7	Connect Hook (included in Fixiform kit)			
8	Reinforcement rod (included in Fixiform kit)			
7	Connect F Spline (included in Fixiform kit)			
10	Plug for reinforcement rod (included in Fixiform kit)		-	-
11	Distance (included in Fixiform kit)		-	-
12	Connect Hanger clip	1 pcs/hanger	1 pcs/hanger	1 pcs/hanger
13	Connect Adjustable hanger, installed at 600 mm centres at the level change	1,4/m²	1,4/m²	1,4/m²
	$\Delta$ Min. overall depth of system: $\Delta$ 1=165 mm and $\Delta$ 2=80 mm from upper level			-
	$\delta$ 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)			





The fold is reinforced by a rod



Upper level connection to Main runner

1500x600x20	Max live load (N)	Min load bearing capacity (N) 160
	-	
1900x600x20	0	160
2300x600x20	0	160

Live load/load bearing capacity

See Quantity specification

# Ecophon Focus Edge<sup>™</sup> 500

Ecophon Focus Edge<sup>™</sup> 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	600x600	1200x600	1200x1200	1200x1200
T24	•	•	•	•
Thickness (THK)	20	20	20	25
Inst. Diagr.	M165, M210, M211	M165, M210, M211	M165, 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**

)	Country		Class
	Europe	EN 13501-1	A1



# Installation

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



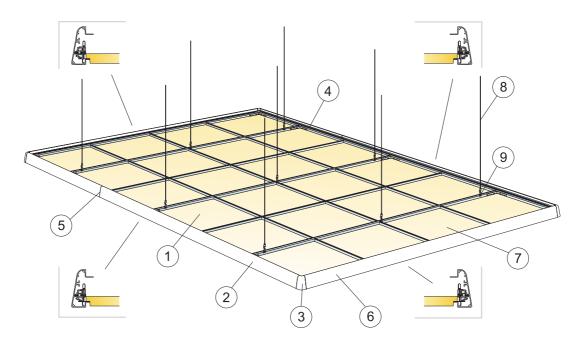
# **Mechanical properties**

Additional live load has to be fixed to the soffit.



CE

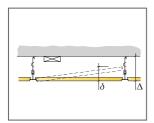
Ecophon ceiling systems are CE marked according to the European harmonized standard EN13964:2014. CE marked construction products are covered by a Declaration of Performance (DOP) which enables customers and users to easily compare performance of products available on the European market.



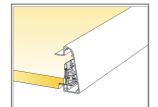
# © Ecophon Group

#### QUANTITY SPECIFICATION (EXCL. WASTAGE)

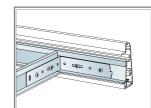
	Size, mm		
	600×600	1200×600	1200×1200
1 Focus E	2,8/m²	1,4/m²	0,7/m²
2 Connect Edge 500 Profile	as required	as required	as required
3 Connect Edge Corner	as required	as required	as required
Connect Lcoupling	as required	as required	as required
5 Joint with Guide pins and Joint fixing bracket, (see Edge kit for further details)	as required	as required	as required
Connect Edge profile clip E, (18 pcs/kit included in Connect Edge kit E)	as required	as required	as required
′ Focus E tile and Connect grid	as required	as required	as required
3 Connect Adjustable wire hanger, installed at 1200 mm centres	as required	as required	as required
P Connect Hanger clip	as required	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	as required
Not included in kit: Connect L-coupling		-	
Not included in kit: Connect Installation screw BR for L-coupling	-	-	
$\Delta$ Min. overall depth of system: 130 mm		-	
$\delta$ Min. demounting depth: See Focus/Master E	-		



See Quantity specification

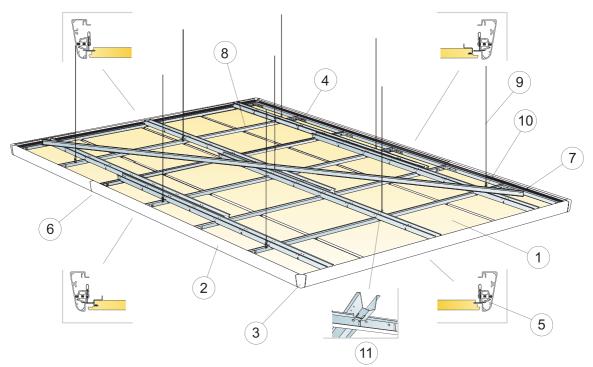


Joint between tile and Edge profile



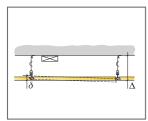
Connection between T-profile and Edge extrusion

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



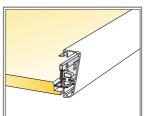
#### QUANTITY SPECIFICATION (EXCL. WASTAGE)

	Size, mm	Size, mm	
	600×600	1200x600	1200×1200
Focus Ds	2,8/m²	1,4/m²	0,7/m²
Connect Edge 500 Profile	as required	as required	as required
Connect Edge 500 Corner	as required	as required	as required
Connect L-coupling	as required	as required	as required
Connect Edge profile clip, (18 pcs/kit included in Connect Edge kit Ds/Dg)	as required	as required	as required
Joint with Guide pins and Joint fixing bracket, (see Edge kit for further details)	as required	as required	as required
Connect Main runner for adjustment and stabilisation of grid	as required	as required	as required
Focus Ds tile and Connect grid system (see Focus Ds system page for further details)	as required	as required	as required
Connect Adjustable wire hanger, installed at 1200 mm centres	as required	as required	as required
Connect Hanger clip	as required	as required	as required
Connect Space bar	as required	as required	as required
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 Kit Ds/Dg: 18 pcs Connect Edge profile clip with screw RTK 3,5x25, 4 pcs Joint fixing bracket, 1 pc socket screw v 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 gu		as required	as required
Not included in kit: Connect L-coupling			
Not included in kit: Connect Installation screw BR for L-coupling		-	
$\Delta$ Min. overall depth of system: 135 mm		-	
$\delta$ Min. demounting depth: 30 mm (50 mm with 1200x1200)	-		



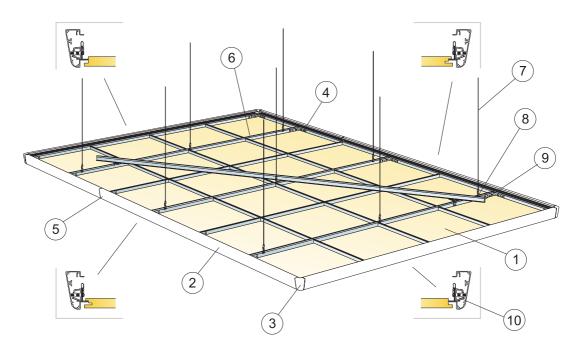
See Quantity specification





Joint with tile side Ds2 and extra profile

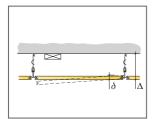
Size, mm	Max live load (N)	Min load bearing capacity (N)
600x600x20	50	160
1200x600x20	50	160
1200x1200x20	50	160



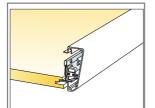
# © Ecophon Group

#### QUANTITY SPECIFICATION (EXCL. WASTAGE)

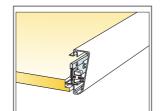
	Size, mm		
	600×600	1200×600	1200×1200
Focus Dg	2,8/m²	1,4/m²	0,7/m²
Connect Edge 500 Profile	as required	as required	as required
Connect Edge 500 Corner	as required	as required	as required
Connect Lcoupling	as required	as required	as required
Joint with Guide pins and Joint fixing bracket, (see Edge kit for further details)	as required	as required	as required
Focus Dg tile and Connect grid system (see Focus Dg system page for further details)	as required	as required	as required
Connect Adjustable wire hanger, installed at 1200 mm centres	as required	as required	as required
Connect Hanger clip	as required	as required	as required
Connect Main runner for adjustment and stabilisation of grid	as required	as required	as required
) 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 wren 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 guide	nch 2 as required ?s	as required	as required
Not included in kit: Connect L-coupling			
Not included in kit: Connect Installation screw BR for L-coupling			-
$\Delta$ Min. overall depth of system: 135 mm			-
$\delta$ Min. demounting depth: 30 mm (50 mm with 1200x1200)	-		



See Quantity specification



Joint between tile and Edge profile



Connection between T-profile and Edge extrusion

600x600x20	50	160
1200x600x20	50	160
1200x1200x25	50	160



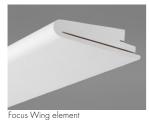
# Ecophon Focus<sup>™</sup> Wing

Ecophon Focus<sup>™</sup> Wing installs as the perimeter of a floating ceiling when used together with Ecophon Focus<sup>™</sup> Ds or E. It is a system of wing shaped absorbers for free hanging suspended ceilings when a wall to wall ceiling is not preferred.



#### SYSTEM RANGE

Normal State	Size, mm	600x200	1200x200
	Т24	•	•
	Thickness (THK)	50	50
	Inst. Diagr.	M209	M143, M209





Connect T24



Section of Focus Wing system with Connect T24



Section of Focus Wing system with Connect T24

# Acoustic

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



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#### **Indoor Air Quality**

Certificate / Label	SOM AIR CONNESS.		
Eurofins Indoor Air Comfort®	IAC Gold	CRATICIED PRODUC	
French VOC	A+		



### Circularity

Minimum post-consumer recycled content	61%
Recyclability	Fully recyclable



# Fire safety

Country	Country		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.

#### System weight

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



(

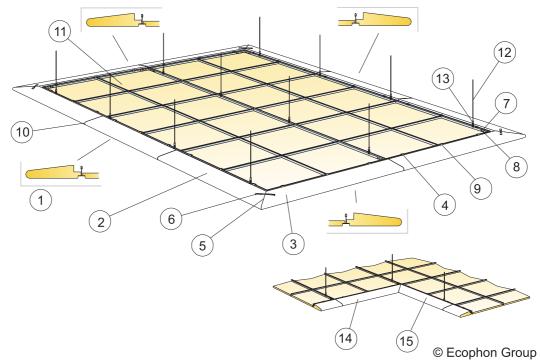
### **Mechanical properties**

No additional live load is allowed.



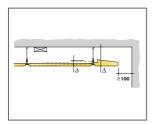
CE

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

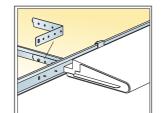


QUANTITY SPECIFICATION (EXCL. WASTAGE)

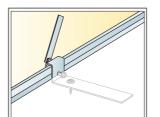
		Size, mm
		1200×200
1	Focus Wing E (Straight Kit E, see installation guide)	as required
2	Focus Wing E/external corner right (incl. in external corner kit, see installation guide)	as required
	Focus Wing E/external corner left (incl. in external corner kit, see installation guide)	as required
Ļ	Connect Wing Cantilever (incl. In kits)	as required
ō	Connect Spline (incl. in kit)	as required
>	Connect Hook (incl. in kit)	as required
	Connect L-coupling	as required
	Connect Installation screw BR	as required
)	Connect Installation Screw MVL (included in kits)	as required
0	Connect Wing Distance	as required
1	Ecophon Focus/Master E system with a frame of Connect Main runner HD	as required
2	Connect Adjustable wire hanger, installed at 1200 mm centres	as required
3	Connect Hanger clip	as required
4	Focus Wing E/internal corner right (incl. in internal corner kit)	as required
5	Focus Wing E/internal corner left (incl. in internal corner kit)	as required
	$\Delta$ Min. overall depth of system: 130 mm	
	$\delta$ Min. demounting depth: See Focus/Master E	



See Quantity specification

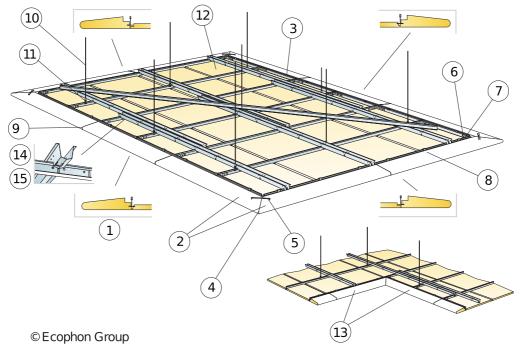


Straight elements are fitted with a special accessory



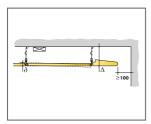
Adjustment of the element

Size, mm Max live Min load bearing load (N) capacity (N) 1200x200x50 0 160

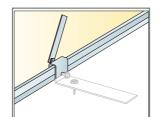


QUANTITY SPECIFICATION (EXCL. WASTAGE)

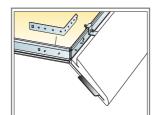
		Size, mm	
		600×200	1200×200
1	Focus Wing Ds (Straight Kit Ds, see installation guide)	-	as required
2	Focus Wing Ds/external corner (incl. in external corner kit, see installation guide)	-	as required
3	Connect Wing Cantilever (incl. In kits)	-	as required
1	Connect Spline (incl. in kits)	-	as required
5	Connect Hook (incl. in kit)	-	as required
5	Connect L-coupling	-	as required
7	Connect Installation screw BR	-	as required
3	Connect Installation Screw MVL (included in kits)	-	as required
7	Connect Wing Distance	-	as required
10	Connect Adjustable wire hanger, installed at 1200 mm centres	-	as required
11	Connect Hanger clip	-	as required
12	Ecophon Focus Ds system with a frame of Connect Main runner HD	-	as required
13	Focus Wing Ds/internal corner (see internal corner for details)	-	as required
14	Connect Space bar		
15	Connect Space bar winch, installed one per joint Main runner/Space bar	-	
	$\Delta$ Min. overall depth of system: 135 mm	-	
	$\delta$ Min. demounting depth: 30 mm (50 mm with 1200x1200)		



See Quantity specification



Adjustment of the element



Corner elements are fitted with a spline

Size, mm	Max live load (N)	Min load bearing capacity (N)
600x200x50	-	-
1200x200x50	0	



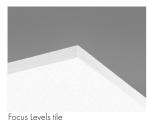
# Ecophon Focus<sup>™</sup> Levels

Ecophon Focus<sup>™</sup> Levels is a creative system with different thicknesses, sizes and colours. The system is glued edge-to-edge directly to an existing soffit, ceiling or wall. Creates a unique design in levels and patterns.



SYSTEM RANGE

100 M	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								







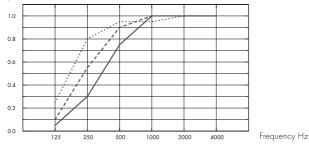
#### Acoustic



#### **Sound Absorption:**

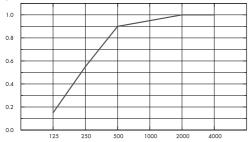
Test results according to EN ISO 354. Classification according to EN ISO 11654, and the single value ratings for Noise Reduction Coefficient, NRC and Sound Absorption Average, SAA according to ASTM C 423.

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



- ···· 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

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



- Focus Levels 20/30/40 mm (M488, M489), 23-43 mm o.d.s.
- o.d.s = overall depth of system

Frequency Hz	

ТНК	o.d.s. mm		$lpha_{p'}$ Pr	actical soun	d absorption c	coefficient		$\alpha_{w}$	Sound absorption class	
mm	0.0.5. 11111	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	. u.,,		
40	43	0.25	0.80	0.95	0.95	1.00	1.00	1.00	A	
30	33	0.10	0.55	0.90	1.00	1.00	1.00	0.85	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	
Eurofins Indoor Air Comfort®	IAC
French VOC	А
Finnish M1	•



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



#### Humidity Resistance

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



#### **Visual appearance**

White Frost, nearest NCS colour sample \$ 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

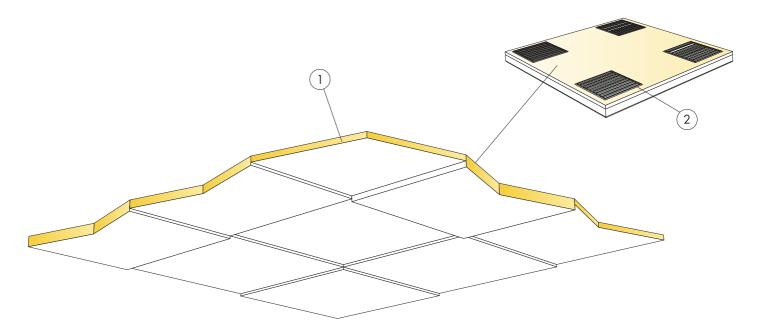
Additional live load has to be fixed to the soffit.

# CE

CE

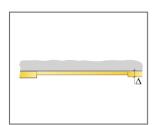
Ecophon ceiling systems are CE marked according to the European harmonized standard EN13964:2014. CE marked construction products are covered by a Declaration of Performance (DOP) which enables customers and users to easily compare performance of products available on the European market.

# INSTALLATION DIAGRAM (M488) FOR ECOPHON FOCUS LEVELS, USING CONNECT ABSORBER GLUE

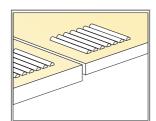


# © Ecophon Group

NTITY SPECIFICATION (EXCL. WASTAGE)			
	Size, mm		
	600x600	1200×300	1200×600
1 Focus Levels	2,8/m²	2,8/m²	2,8/m²
2 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.	-	-	-
$\Delta$ Min. overall depth of system: 23 mm	-	-	-
$\delta$ Min. demounting depth: The system is not demountable	-	-	-
Visible edges should be painted	-	-	-
Installation shows 30% of each thickness	-	-	



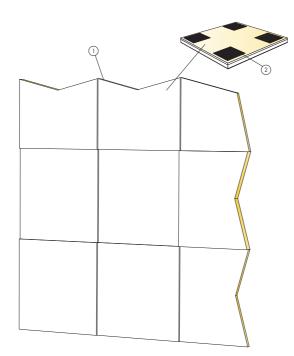
See Quantity specification



Application of glue

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

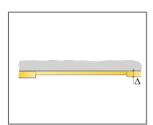
INSTALLATION DIAGRAM (M489) FOR ECOPHON FOCUS LEVELS, USING CONNECT ABSORBER GLUE



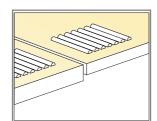
© Ecophon Group

#### QUANTITY SPECIFICATION (EXCL. WASTAGE)

Size, mm		
600×600	1200x300	1200×600
2,8/m²	2,8/m²	2,8/m²
as required	as required	as required
-	-	
-		
-		
-		
	600×600 2,8/m² as required - - - -	600x600         1200x300           2,8/m²         2,8/m²           as required         as required           -         -           -         -           -         -           -         -           -         -           -         -           -         -           -         -           -         -



See Quantity specification



Application of glue

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