

# 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.



24/15	Size, mm	600x600	1200x600	1200x1200	XL 1600x600	XL 1800x600	XL 2000x600	XL 2400x600
24/10	Connect T15	•	•	•				
	Connect T24	•	•	•	•	•	•	•
	T24	•	•	•				
	Thickness (THK)	20	20	20	20	20	20	20
	Inst. Diagr.	M01, M399	M01, M399	M01	M16, M46	M16, M46	M16, M46	M16, M46

## SYSTEM RANGE



Focus A tile



Section of Focus A system with Connect T24



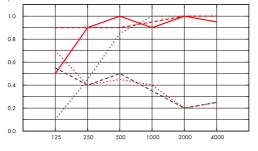
Acoustic



# Sound Absorption:

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

 $\alpha_{_{D'}}$  Practical sound absorption coefficient



···· Focus A 20 mm, 50 mm o.d.s.

- Focus A 20 mm, 200 mm o.d.s.
- --- Focus A 20 mm + Extra Bass 50 mm, 200 mm o.d.s.
- --- Focus A gamma 20 mm, 200 mm o.d.s.
- ····Focus A gamma 20 mm + Extra Bass 50 mm, 200 mm o.d.s.
- $F_{requency Hz}$  o.d.s = overall depth of system

	тнк	o.d.s. mm	$lpha_{\sf p}$ , 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	w.	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	0.95	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	19	21

#### **Indoor Air Quality**

$\left  \right $	Certificate / Label		SOR AIR COMPANY	
-	Eurofins Indoor Air Comfort®	IAC Gold	RA GOLD A	
	French VOC	A+		



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# Cradle to Cradle Certified®

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



# **Material Health**

CERTIFIE

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



# **Carbon footprint**

	kg CO2 equiv/m²	Life-cycle stages A1 to C4 from EPD, in conformity with ISO 14025 / EN 15804
Focus A	2,60	14020 / El 10004



# Circularity

Minimum post-consumer recycled content	51%
Recyclability	Fully recyclable



# **Fire safety**

Country	Fire standard	Class	The glass wool core of the tiles is tested and classified as non-combustible according to EN ISO 1182.
Europe	EN 13501-1	A2-s1,d0	homeombosible according to EtA 150 1102.



# **Humidity Resistance**

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



# **Visual appearance**

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



# Cleanability

Daily dusting and vacuum cleaning. Weekly wet wiping.



# Accessibility

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



## Installation

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



# System weight

	kg/m²
Focus A	1,4
Focus A + Connect grid system	2,4
Focus A/Gamma	1,8
Focus A/Gamma + Connect grid system	2,8

Weight information is indicative and subject to variation.



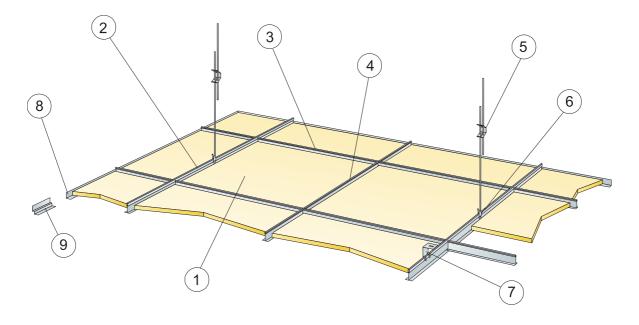
# **Mechanical properties**

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

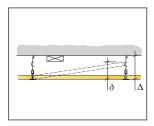
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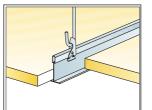
CE

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.

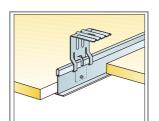


QUANTITY SPECIFICATION (EXCL. WASTAGE)			o o. o o.p
	Size, mm		
	600×600	1200×600	1200x1200
1 Focus A	2,8/m²	1,4/m²	0,7/m²
2 Connect T24 or T15 Main runner, installed at 1200 mm centres (max. distance from wall 600 mm, can be extended up to 1200 mm if no live load between Main runner and wall).	0,9m/m²	0,9m/m²	0,9m/m²
3 Connect T24 or T15 Cross tee, L=1200 mm, installed at 600 mm centres	1,7m/m²	1,7m/m²	0,9m/m²
4 Connect T24 or T15 Cross tee, L=600 mm	0,9m/m²		
5 Connect Adjustable hanger, installed at 1200 mm centres (max. distance from wall 600 mm)	0,7/m²	0,7/m²	0,7/m²
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
8 Connect Angle trim, fixed at 300 mm centres	as required	as required	as required
9 Connect Shadow-line trim, fixed at 300 mm centres	as required	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 (130 mm with 1200x1200)	-	-	-
For luminaire integration in panels use Connect Bridging	-	-	-
When using panels in format 1200x1200 mm and XL-format in combination with T15 grid, secure grid with wall brackets	-	-	-



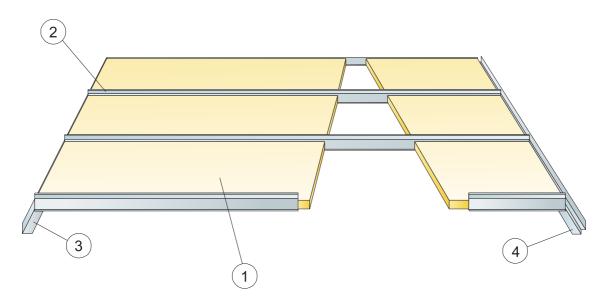


Suspension with adjustable hanger and clip



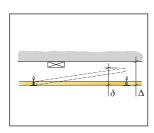
Suspension with direct bracket

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

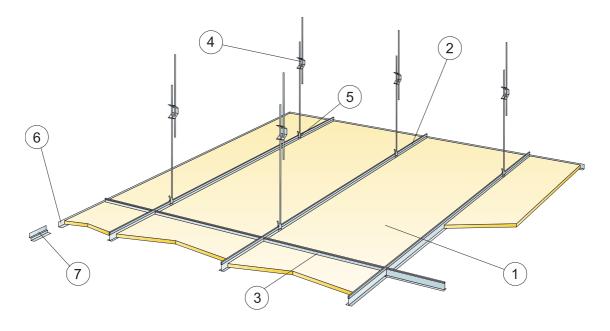


# QUANTITY SPECIFICATION (EXCL. WASTAGE)

	Size, mm	Size, mm				
	1600x600	1800×600	2000×600	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	-					

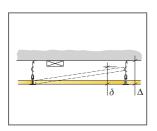


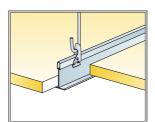
Size, mm	Max live load (N)	Min load bearing capacity (N)
1600x600x20	40	-
1800x600x20	20	
2000x600x20	10	
2400x600x20	0	



QUANTITY SPECIFICATION (EXCL. WASTAGE)

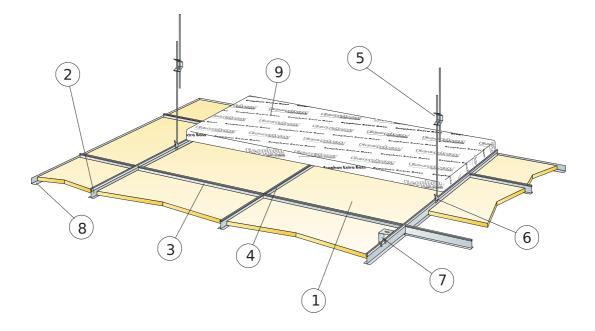
	Size, mm			
	1600×600	1800×600	2000×600	2400×600
1 Focus A	1,05/m²	0,95/m²	0,85/m²	0,7/m²
2 Connect T24 Main runner, installed at 600 mm centres	1,7m/m²	1,7m/m²	1,7m/m²	1,7m/m²
3 Connect T24 Cross tee, L=600 mm	0,65m/m²	0,6m/m²	0,5m/m²	0,45m/m²
Connect Adjustable hanger, installed at 1500 mm centres (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
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
$\Delta$ Min. overall depth of system: 100 mm	-	-	-	-
$\delta$ Min. demounting depth: 100 mm	-	-		



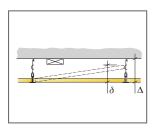


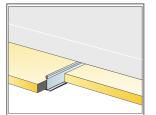
Suspension with adjustable hanger and clip

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

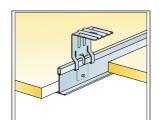


QUANTITY SPECIFICATION (EXCL. WASTAGE)		
	Size, mm	
	600x600	1200x600
Focus A	2,8/m²	1,4/m²
Connect T24 Main runner black, installed at 1200 mm centres (max. distance from wall 600 mm, can be extended up to 1200 mm if no live load between N runner and wall).	1ain 0,9m/m²	0,9m/m²
Connect T24 Cross tee black, L=1200 mm, installed at 600 mm centres	1,7m/m²	1,7m/m²
Connect T24 Cross tee black, L=600 mm	0,9m/m²	-
Connect Adjustable hanger, installed at 1200 mm centres (max. distance from wall 600 mm)	0,7/m²	0,7/m²
Connect Hanger Clip (not to be used in swimming hall environments)	0,7/m²	0,7/m²
' For direct installation: Connect Direct Bracket, installed at 1200 mm centres	0,7/m²	0,7/m²
Connect Angle trim black, (fixed at 300 mm centres)	as required	as required
? 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		-

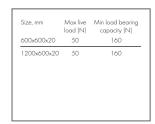




Installation with Extra Bass



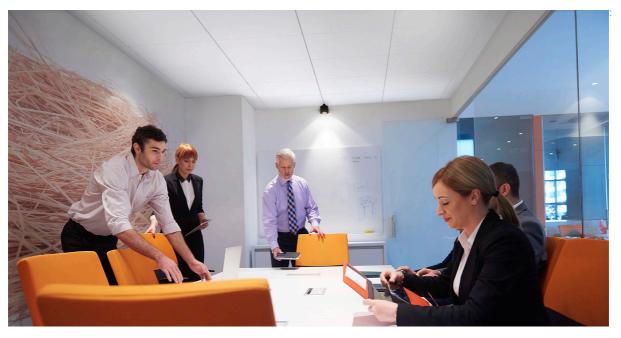
Fixing with direct bracket





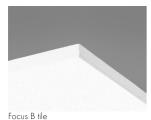
# Ecophon Focus<sup>™</sup> B

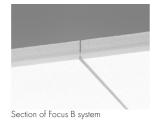
Ecophon Focus<sup>™</sup> B are bonded edge-to-edge directly to the soffit surface, creating a ceiling with a smooth appearance. The bevelled edge creates a narrow groove between each tile. For applications where the minimum possible overall depth of system is required.

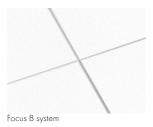


### SYSTEM RANGE

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







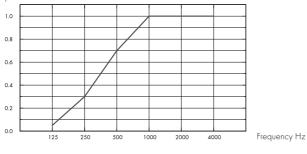
#### Acoustic



# Sound Absorption:

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

 $\alpha_{_{D'}}$  Practical sound absorption coefficient



Focus B 20 mm, 23 mm o.d.s.

o.d.s = overall depth of system

THK o.d.s		~~~	$lpha_{ m pr}$ Practical sound absorption coefficient					α"	Sound absorption class			
mm	0.0.3.		125 Hz	25	0 Hz	500 ⊢	lz	1000 Hz	2000 Hz	4000 Hz		Sound absorption class
20	23	3	0.05	0	.30	0.70		1.00	1.00	1.00	0.60	С
TH			o.d.s. mm		N	IRC		SAA				
20	)		23		0.	.75		0.77				

# 

# Indoor Air Quality



# Cradle to Cradle Certified®

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



# **Material Health**

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

#### **Carbon footprint**

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



# Circularity

Minimum post-consumer recycled content	56%
Recyclability	Fully recyclable



## Fire safety

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



# **Humidity Resistance**

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



# Visual appearance

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



# Cleanability

Daily dusting and vacuum cleaning. Weekly wet wiping.



# Accessibility

The tiles are not demountable.



# Installation

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



# System weight

		kg/m²	Weight information is indicative and subject to variation.
_	Focus B	2,5	

# **Mechanical properties**



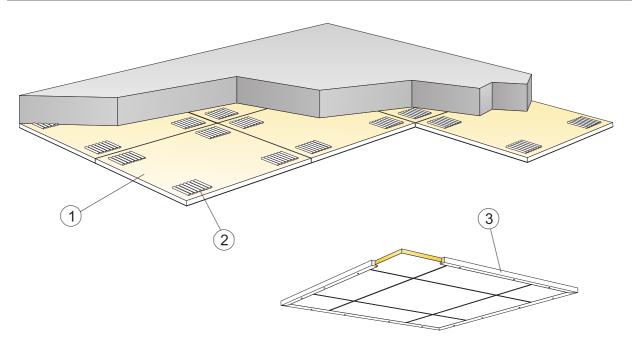
Additional live load has to be fixed to the soffit.

# 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.

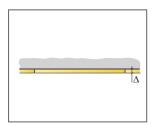
CE

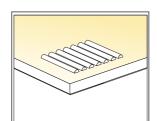
# INSTALLATION DIAGRAM (M03) FOR ECOPHON FOCUS B, USING CONNECT ABSORBER GLUE



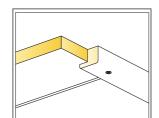
# © Ecophon Group

	Size, mm
	600×600
Focus B	2,8/m²
Connect Absorber glue (0,25 1/m² - 0,4 1/m² depending on installation conditions)	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
$\Delta$ Min. overall depth of system: 23 mm	
$\delta$ Min. demounting depth: The system is not demountable	
Cut visible edges should be painted	





Application of glue



Wood trim for floating installation

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



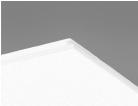
# Ecophon Focus<sup>™</sup> Ds

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



## SYSTEM RANGE

Size, mm XL XL XL XL 600x600 1200x600 1200x1200 1600x600 1800x600 2000x600 2400x600 T24 • • • • • • • Thickness 20 20 20 20 20 20 20 (THK) M581, M583, M584 M581, M583, M584 M581, M581, M581, M581, Inst. Diagr. M582 M613, M614 M238 M238 M238 M613, M614 M238



Focus Ds tile



Section of Focus Ds system with Connect T24 Main runner PL





The individual tiles are easily demountable

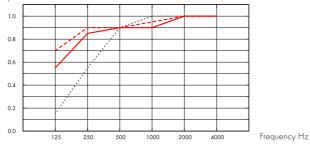
# Acoustic



# Sound Absorption:

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

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



···· Focus Ds 20 mm, 65 mm o.d.s.

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

o.d.s = overall depth of system

	ТНК	o d c mm	$lpha_{ m p}$ , Practical sound absorption coefficient						a	Sound absorption class	
	mm	o.d.s. mm	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	$\alpha_{w}$		
-	20	65	0.15	0.55	0.90	1.00	1.00	1.00	0.85	В	
-	20	200	0.55	0.85	0.90	0.90	1.00	1.00	0.95	A	
+ Extra Bass	70	200	0.70	0.90	0.90	0.95	1.00	1.00	0.95	A	

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

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	23

# Indoor Air Quality

Certificate / Label	SOR AIR COMP.		
Eurofins Indoor Air Comfort®	IAC Gold	GRANDED PROBLE	
French VOC	A+		

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# Cradle to Cradle Certified®

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

# Material Health

CE

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# **Carbon footprint**

	kg CO2 equiv/m²	Life-cycle stages A1 to C4 from EPD, in conformity with ISO 14025 / EN 15804
Focus Ds (EN 15804+A2)	3,68	



# Circularity

Minimum post-consumer recycled content	54%
Recyclability	Fully recyclable



# Fire safety

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



# 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

	kg/m²
Focus Ds	2
Focus Ds + Connect grid system	2,9

Weight information is indicative and subject to variation.

# **Mechanical properties**

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

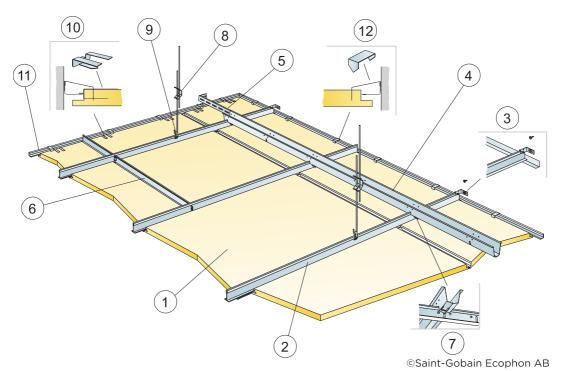
# CE

CE

kg

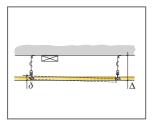
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INSTALLATION DIAGRAM (M581) FOR ECOPHON FOCUS DS 600X600, 1200X600 MM AND ECOPHON FOCUS DS XL. SUSPENDED INSTALLATION

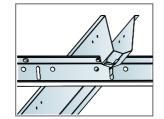


#### QUANTITY SPECIFICATION (EXCL. WASTAGE)

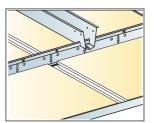
		Size, mm					
		600×600	1200×600	1600x600	1800×600	2000×600	2400×600
1	Focus Ds	2,8/m²	1,4/m²	1,05/m²	0,95/m²	0,85/m²	0,7/m²
2	Connect T24 Main Runner PL, installed at 600 mm centres	1,7m/m²	1,7m/m²	1,7m/m²	1,7m/m²	1,7m/m²	1,7m/m²
3	Connect Wall Bracket for T-profiles	1/suspended ro	w of Main runner				
4	Connect Space Bar, installed at 1500 mm centres (max. distance from wa 300 mm)	ll 0,7m/m²	0,7m/m²	0,7m/m²	0,7m/m²	0,7m/m²	0,7m/m²
5	Connect Wall Bracket, L=700 mm, for Connect Space Bar	1/row of Space	e bar				
6	Connect T24 Cross Tee, L=600 mm	2/row of Main	runner				
7	Connect Space Bar Winch, installed one per joint Connect Main Runner/Connect Space Bar	1,4/m²	1,4/m²	1,4/m²	1,4/m²	1,4/m²	1,4/m²
3	Connect Adjustable hanger, installed at 1200 mm centres (max. distance from wall 600 mm)	0,7/m²	0,7/m²	0,7/m²	0,7/m²	0,7/m²	0,7/m²
7	Connect Hanger Clip (not to be used in swimming hall environments)	0,7/m²	0,7/m²	0,7/m²	0,7/m²	0,7/m²	0,7/m²
10	) Connect Support clip Dg20	1pc/300-400 r	nm on every cut perim	eter tile with only 1 su	pporting edge		
1	Connect Angle trim 15/22, fixed at 300 mm centres	as required	as required	as required	as required	as required	as required
12	2 Connect Perimeter tile clip	1/300-400mm on any cut edge					
	$\Delta$ Min. overall depth of system: 120 mm	-	-	-	-	-	-
	$\delta$ Min. demounting depth: 30 mm	-	-	-	-	-	-
	For luminaire integration in panels use Connect Bridging	÷	÷		-		-



See Quantity Specification

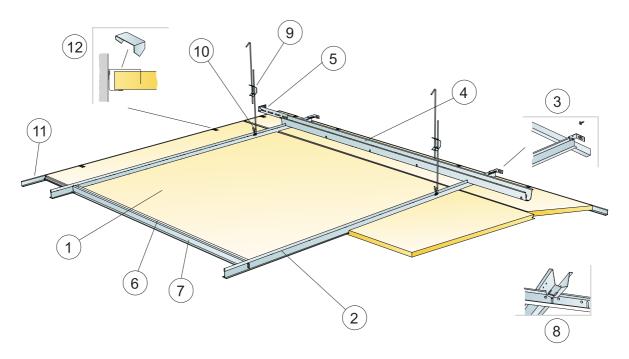


Connection between profiles with space bar winch



Installation with Main runner PL and space bar

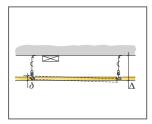
Size, mm	Max live load (N)	Min load bearing capacity [N]
600x600x20	35	160
1200x600x20	35	160
1600x600x20	35	160
1800x600x20	35	160
2000x600x20	35	160
2400x600x20	35	160

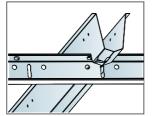


©Saint-Gobain Ecophon AB

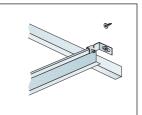
QUANTITY SPECIFICATION (EXCL. WASTAGE)

		Size, mm
		1200x1200
1	Focus Ds	0,7/m²
2	Connect T24 Main Runner PL, installed at 1200 mm centres	0,9m/m²
3	Connect Wall Bracket for T-profiles	1/suspended row of Main runner
4	Connect Space Bar, installed at 1500 mm centres (max. distance from wall 300 mm)	0,7m/m²
5	Connect Wall Bracket, L=700 mm, for Connect Space Bar	1/row of Space bar
6	Connect Edge stiffener	1,4/m²
7	Connect T24 Cross tee, L=1200 mm	2/row of Main runner
8	Connect Space Bar Winch, installed one per joint Connect Main Runner/Connect Space Bar	0,7/m²
9	Connect Adjustable hanger, installed at 1200 mm centres (max. distance from wall 600 mm)	0,7/m²
10	Connect Hanger Clip (not to be used in swimming hall environments)	0,7/m²
11	Connect Angle trim 15/22, fixed at 300 mm centres	as required
12	Connect Perimeter tile clip	1/300-400mm on any cut edge
	$\Delta$ Min. overall depth of system: 120 mm	-
	$\delta$ Min. demounting depth: 50 mm	-
	For luminaire integration in panels use Connect Bridging	-





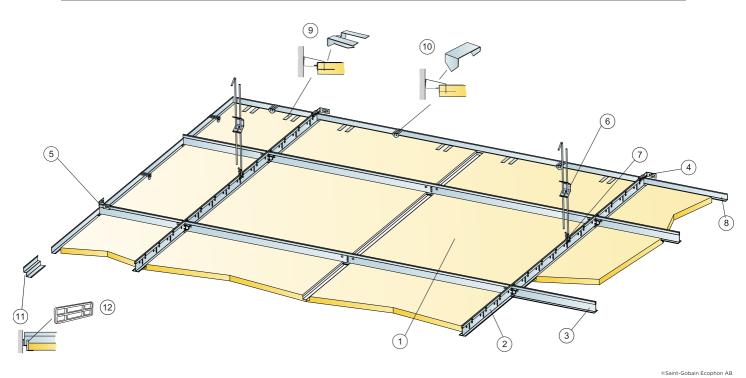
Connection between profiles with space bar winch



Secured Main runner at wall with Connect Wall bracket

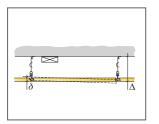
Size, mm	Max live load (N)	Min load bearing capacity (N)
1200x1200x20	50	160

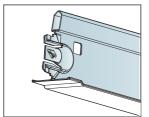
# INSTALLATION DIAGRAM (M583) FOR ECOPHON FOCUS DS 600X600, 1200X600 MM. SUSPENDED INSTALLATION



#### QUANTITY SPECIFICATION (EXCL. WASTAGE)

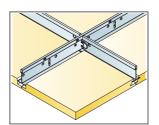
		Size, mm	
		600×600	1200×600
1	Focus Ds	2,8/m²	1,4/m²
2	Connect T24 Main Runner PL, installed at 1200 mm centres	0,9m/m²	0,9m/m²
3	Connect T24 Cross Tee PL, L=1200 mm, installed at 600 mm centres	1,7m/m²	1,7m/m²
4	Connect Wall Bracket, fixed 1200mm centres for Main runner	2/suspended ro	w of Main runner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





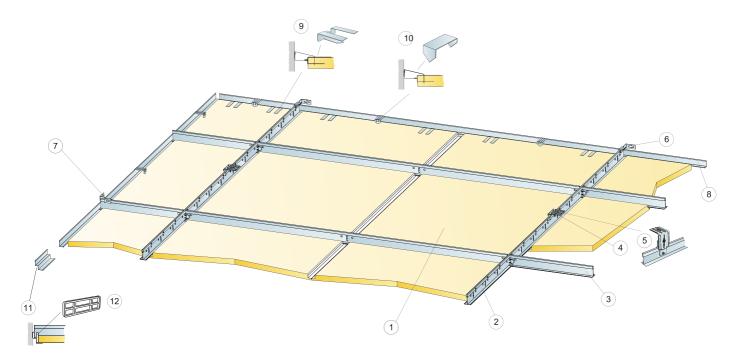
See Quantity Specification

Cross tee PL



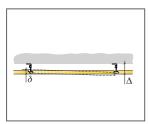
Installation with Main runner PL and Cross tee PL

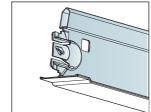
Size, mm	Max live load (N)	capacity [N]
600x600x20	50	160
1200x600x20	50	160



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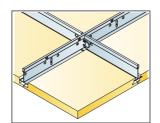
		Size, mm		
		600×600	1200×600	
1	Focus Ds	2,8/m²	1,4/m²	
2	Connect T24 Main Runner PL, installed at 1200 mm centres	0,9m/m²	0,9m/m²	
3	Connect T24 Cross Tee PL, L=1200 mm, installed at 600 mm centres	1,7m/m <sup>2</sup>	1,7m/m²	
4	Connect Direct bracket, (installed at 1200 mm centres)	0,7/m²	0,7/m²	
5	Alt. Connect Adjust direct bracket, installed at 1200 mm centres	0,7/m <sup>2</sup>	0,7/m²	
6	Connect Wall Bracket, fixed 1200mm centres for Main runner	2/suspended ro	2/suspended row of Main runner	
7	Connect Wall Bracket, fixed 1200mm centres for Cross tee	1/row of cross	tee	
8	Connect Angle trim 15/22, fixed at 300 mm centres	as required	as required	
9	Connect Support clip Dg20		mm on every cut perimeter supporting edge	
10	Connect Perimeter tile clip	1/perimeter tile		
11	Connect Shadow-line trim, fixed at 300 mm centres	as required	as required	
12	Connect Wall spacer 5	1 on the long sid tile	le of every cut perimeter	
	$\Delta$ Min. overall depth of system: 65 mm	-	-	
	$\delta$ Min. demounting depth: 30 mm	-	-	
	For luminaire integration in panels use Connect Bridging	-	-	





See Quantity Specification

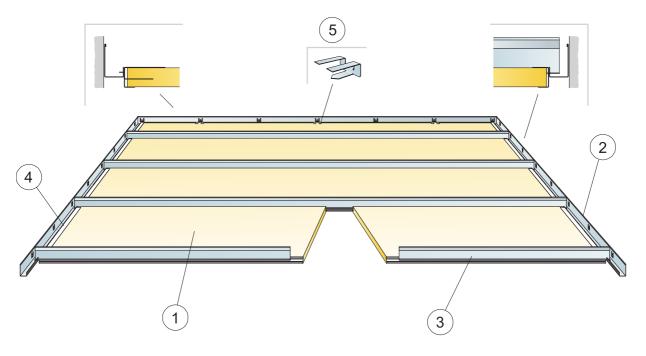
Cross tee PL



Installation with Main runner PL and Cross tee PL

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

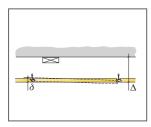
# INSTALLATION DIAGRAM (M238) FOR ECOPHON FOCUS DS XL IN CORRIDORS

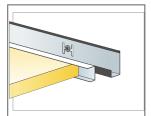


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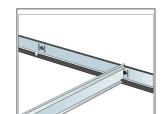
#### QUANTITY SPECIFICATION (EXCL. WASTAGE)

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





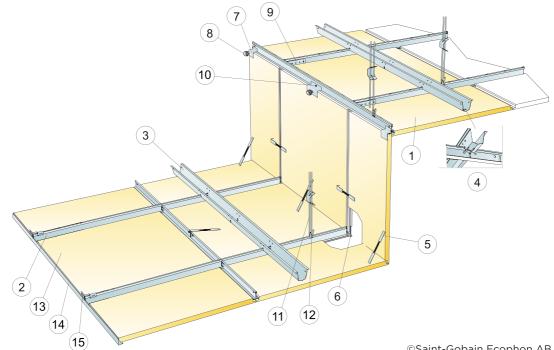
Tile and Connect Cover trim Ds



Corridor profile positioned by Modular wall trim

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

INSTALLATION DIAGRAM (M613) FOR ECOPHON FOCUS DS LEVEL CHANGE. SUSPENDED INSTALLATION

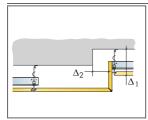


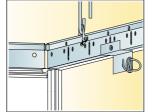
QUANTITY SPECIFICATION (EXCL. WASTAGE)

©Saint-Gobain Ecophon AB

		Size, mm	Size, mm	
		600×600	1200×600	
1	Focus Ds	2,8/m²	1,4/m²	
2	Connect T24 Main Runner PL, installed at 600 mm centres	1,7m/m²	1,7m/m²	
3	Connect Space bar, installed at 1500 mm centres (max. distance from Vertical tile 450 mm)	0,7m/m²	0,7m/m²	
4	Connect Space Bar Winch, installed one per joint Connect Main Runner/Connect Space Bar	1,4/m²	1,4/m²	
5	Connect Hook	3/panel	3/panel	
5	Connect Distance Ds (included in Level change Ds kit)	1/panel	1/panel	
7	Connect level clip Ds (included in Level change Ds kit)	1/panel	1/panel	
8	Connect Spiral anchor	1/panel	1/panel	
7	Connect L-coupling	1/row of Main	runner	
10	Connect Installation screw BR	as required	as required	
11	Connect Adjustable hanger, installed at 1200 mm centres (max. distance from wall 600 mm)	0,7/m²	0,7/m²	
12	Connect Hanger Clip (not to be used in swimming hall environments)	0,7/m²	0,7/m²	
13		as required	as required	
14	Connect Angle trim 15/22, fixed at 300 mm centres	as required	as required	
15	Connect Wall Bracket for T-profiles	1/suspended ro	w of Main runner	
	$\Delta$ 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

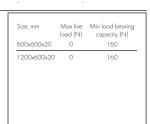


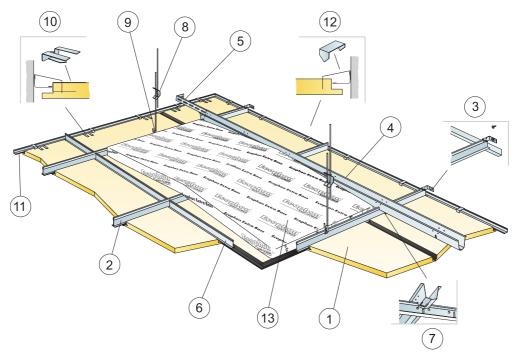


Upper level connection to Main runner PL



Distance between Focus Lp tiles

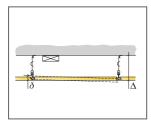


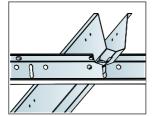


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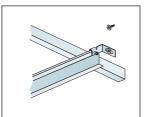
QUANTITY SPECIFICATION (EXCL. WASTAGE)

		Size, mm	
		600x600	1200x600
1	Focus Ds	2,8/m²	1,4/m²
2	Connect T24 Main Runner PL, installed at 600 mm centres	1,7m/m²	1,7m/m²
3	Connect Wall Bracket for T-profiles	1/suspended ro	w of Main runner
4	Connect Space Bar, installed at 1500 mm centres (max. distance from wall 300 mm)	0,7m/m²	0,7m/m²
5	Connect Wall Bracket, L=700 mm, for Connect Space Bar	1/row of Space	bar
6	Connect T24 Cross tee, L=600 mm	2/row of Main	runner
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: 120 mm	-	-
	$\delta$ Min. demounting depth: 30 mm		-





Connection between profiles with space bar winch



Connection between profiles with split pin

Size, mm 600x600x20	Max live load [N] 25	Min load bearing capacity [N] 160
1200x600x20	25	160

Live load/load bearing capacity



# Ecophon 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

R	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

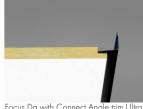


A

Section of Focus Dg with Connect T24

HD Main runner

Focus Dg system



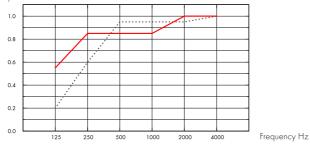
Focus Dg with Connect Angle trim Ultra matt black

# Acoustic

# Sound Absorption:

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

 $\alpha_{_{D^\prime}}$  Practical sound absorption coefficient



···· Focus Dg 20 mm, 65 mm o.d.s.

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

ТНК	o.d.s. mm		$lpha_{p'}$ Pr	actical sound	$\alpha_{w}$	Sound absorption class			
mm	0.0.5. 1111	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	~~ <sub>w</sub>	
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	Son AIR COMPO		
Eurofins Indoor Air Comfort®	IAC Gold	CRA GOLD C	
French VOC	A+		



# Cradle to Cradle Certified®

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



### **Material Health**

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



## **Carbon footprint**

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



# Circularity

Minimum post-consumer recycled content	59%
Recyclability	Fully recyclable



# **Fire safety**

)	Country	Fire standard	Class	The glass wool core of the tiles is tested and classified as non-combustible according to EN ISO 1182.
	Europe	EN 13501-1	A2-s1,d0	holecombusible according to Et 100 1102.



# 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

	kg/m²	Weight information is indicative and subject to variation.
Focus Dg	2,3	
Focus Dg + Connect grid system	3,3	
Focus Dg 25 mm	2,8	
Focus Dg 25 mm + Connect grid system	3,8	-



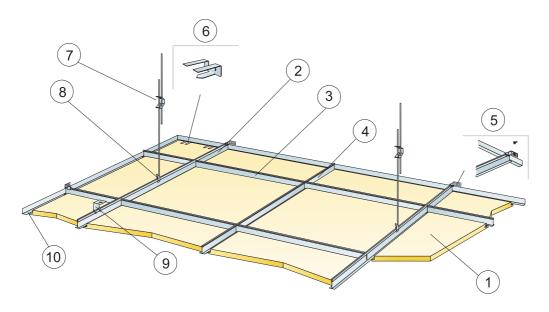
# **Mechanical properties**

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

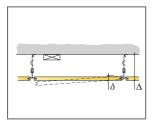
# CE

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.

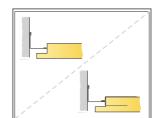


	Size, mm	
	600×600	1200x600
Focus Dg	2,8/m²	1,4/m²
2 Connect T24 Main runner HD, installed at 1200 mm centres (max. distance from wall 600 mm, can be extended up to 1200 mm if no live load between Mair runner and wall).	0,9m/m²	0,9m/m²
3 Connect T24 Cross tee, L=1200 mm, installed at 600 mm centres	1,7m/m²	1,7m/m²
4 Connect T24 Cross tee, L=600 mm	0,9m/m²	-
5 Connect Wall Bracket for T-profiles	1/suspended ro	ow of Main runner
5 Connect Support clip Dg20	1/300-400mm	on any cut edge
7 Connect Adjustable hanger, installed at 1200 mm centres (max. distance from wall 600 mm)	0,7/m²	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
10 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	-	-

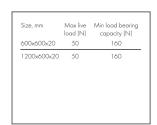


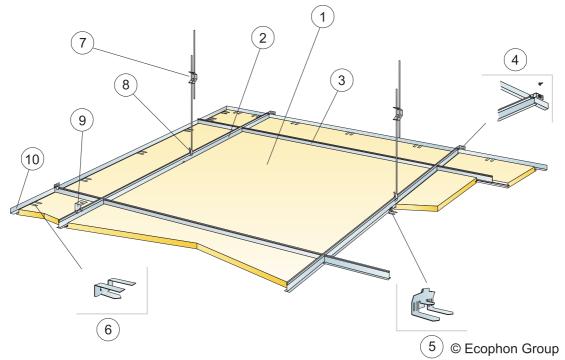


Нож для подрезки кромки Dg



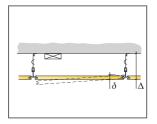
Cut edge with and without support clip

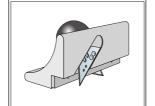




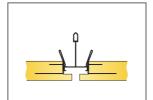
		Size, mm
		1200×1200
1	Focus Dg	0,7/m²
2	Connect T24 Main runner HD, installed at 1200 mm centres (max. distance from wall 600 mm, can be extended up to 1200 mm if no live load between Main runner and wall).	0,9m/m²
3	Connect T24 Cross tee, L=1200 mm, installed at 1200 mm centres	0,9m/m²
4	Connect Wall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

δ Min. demounting depth: 30 mm For luminaire integration in panels use Connect Bridging

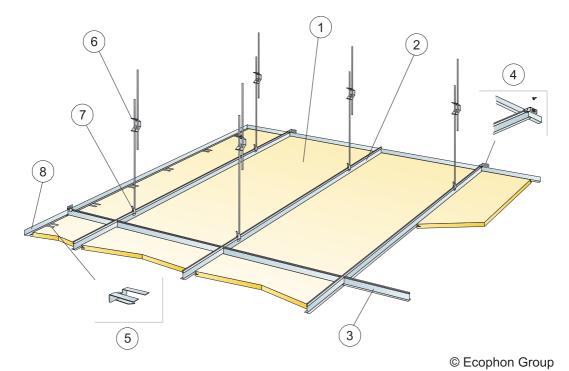




Cutting tool Dg

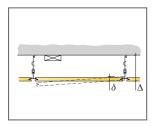


Joint between two unsupported edges with Edge clip Size, mm Max live Min load bearing load [N] capacity (N) 1200x1200x25 50 160



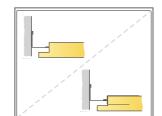
## QUANTITY SPECIFICATION (EXCL. WASTAGE)

	Size, mm	Size, mm			
	1600×600	1800x600	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 r	1pc/300-400 mm on every cut perimeter tile with only 1 supporting edge			
5 Connect Adjustable hanger, installed at 1.500 mm centres (max. distance from wall 4.50 mm)	1,1/m²	1,1/m²	1,1/m²	1,1/m²	
7 Connect Hanger clip	1,1/m²	1,1/m²	1,1/m²	1,1/m²	
3 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	-	-	-	-	





Cutting tool Dg



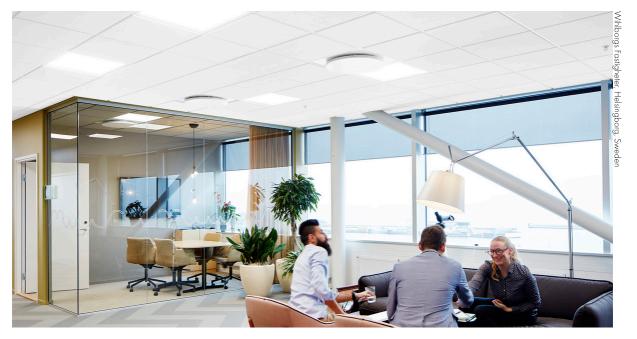
Cut edge with and without support clip

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



# Ecophon Focus<sup>™</sup> E

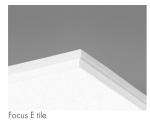
Ecophon Focus<sup>™</sup> E has a recessed visible grid and a tegular edge, creating a ceiling with a shadow effect that accentuates each tile and partially conceals the grid. For applications where an attractive suspended ceiling is required and easy removal of individual tiles is essential.



### SYSTEM RANGE

24/15

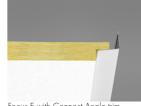
75 8	Size, mm	600x600	1200x600	1200×1200	
	Connect T15	•	•	•	
	Connect T24	•	•	•	
	Thickness (THK)	20	20	20	
	Inst. Diagr.	M12	M12	M12	



Section of Focus E system with Connect T24



Focus E system



Focus E with Connect Angle trim

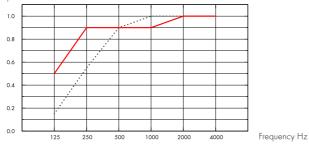
## Acoustic



## **Sound Absorption:**

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

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



···· 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

1.00

0.95

А

1.00

ТНК	o.d.s. mm		$lpha_{ m p'}$ Pr	actical sound	d absorption c	oefficient		$\alpha_{w}$	Sound absorption cla
mm	0.0.3. 11111	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	~~ <sub>w</sub>	
20	60	0.15	0.55	0.90	1.00	1.00	1.00	0.85	В

	20	2	00	0.50	0	.90	0.90	0.90		1.9
	TH mr			o.d.s. mm		N	RC	SAA		
	20	)		60		0.	90	0.87		
20			400		0.	85	0.85			

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	22	23



# **Indoor Air Quality**

Certificate / Label		SOR AIR COMPO	
Eurofins Indoor Air Comfort®	IAC Gold	GRANDED PROB	
French VOC	A+		



# **Material Health**

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



## Cradle to Cradle Certified®

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

# **Carbon footprint**





# Circularity

CERTIFIED

Minimum post-consumer recycled content	55%
Recyclability	Fully recyclable



## **Fire safety**

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



# **Humidity Resistance**

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



# **Visual appearance**

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



# Cleanability

Daily dusting and vacuum cleaning. Weekly wet wiping.



# Accessibility

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



# Installation

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



# System weight

	kg/m²	Weight information is indicative and subject to variation.
Focus E	2,0	
Focus E + Connect grid system	2,9	



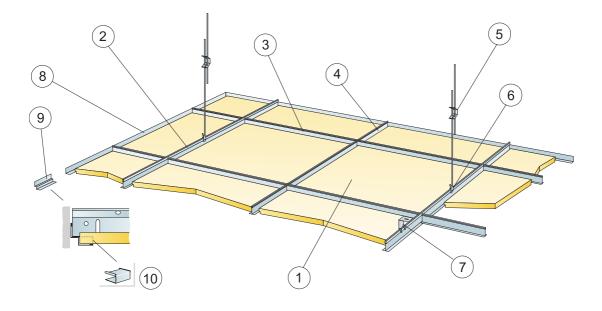
# **Mechanical properties**

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

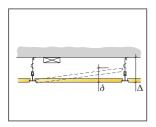
# CE

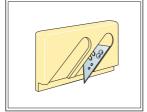
CE

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.

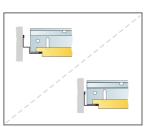


	Size, mm	Size, mm	
	600x600	1200×600	1200x1200
Focus E T24 or T15	2,8/m²	1,4/m²	0,7/m²
2 Connect T24 or T15 Main runner, installed at 1200 mm centres (max. distance from wall 600 mm, can be extended up to 1200 mm if no live load between Main runner and wall).	0,9m/m²	0,9m/m²	0,9m/m²
Connect T24 or T15 Cross tee, L=1200 mm	1,7m/m²	1,7m/m²	0,9m/m²
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
Connect Hanger Clip (not to be used in swimming hall environments)	0,7/m²	0,7/m²	0,7/m²
7 For direct installation: Connect Direct Bracket, installed at 1200 mm centres	0,7/m²	0,7/m²	0,7/m²
3 Connect Angle trim, fixed at 300 mm centres	as required	as required	as required
Connect Shadow-line trim, fixed at 300 mm centres	as required	as required	as required
0 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	-	-	-





Cutting tool E



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

1200x600x20	50	160
1200x1200x20	50	160



# Ecophon Focus<sup>™</sup> F

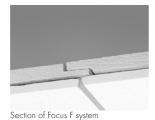
Ecophon Focus™ F installs directly to an existing plaster ceiling, boarding, battens or concrete, to create a ceiling with a smooth appearance. For applications requiring a ceiling mechanically secured to the structural soffit.



#### SYSTEM RANGE

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









Focus F tile

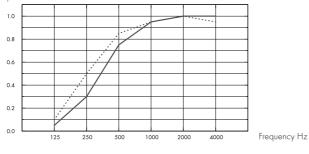
#### Acoustic



#### 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.

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



- Focus F 20 mm, 20 mm o.d.s.

···· Focus F 20 mm, 40 mm o.d.s.

o.d.s = overall depth of system

THK	o.d.s. mm	${f lpha}_{ m pr}$ Practical sound absorption coefficient					$\alpha_{w}$	Sound absorption class	
mm	0.0.3. 11111	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	~~~	Sound absorption class
20	20	0.05	0.30	0.75	0.95	1.00	1.00	0.60	С
20	40	0.10	0.50	0.85	0.95	1.00	0.95	0.80	В

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



#### Indoor Air Quality

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





#### Cradle to Cradle Certified®

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



#### **Material Health**

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

#### **Carbon footprint**

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



#### Circularity

Minimum post-consumer recycled content	59%
Recyclability	Fully recyclable



#### Fire safety

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



#### **Humidity Resistance**

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



#### Visual appearance

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



#### Cleanability

Daily dusting and vacuum cleaning. Weekly wet wiping.



#### Accessibility

The tiles are not demountable.



#### Installation

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



#### System weight

Í		kg/m²	Weight information is indicative and subject to variation.		
_	Focus F	2,3	-		

#### **Mechanical properties**

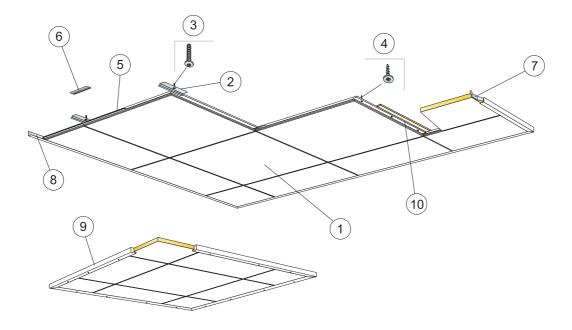


Additional live load has to be fixed to the soffit.

### ( )

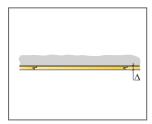
Ecophon ceiling systems are CE marked according to the European harmonized standard EN13964:2014. CE marked construction products are covered by a Declaration of Performance (DOP) which enables customers and users to easily compare performance of products available on the European market.

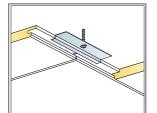
CE



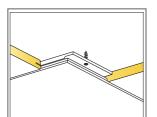
#### © Ecophon Group

Q	uantity specification (excl. wastage)	•	•
		Size, mm	
		600x600	1200x600
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



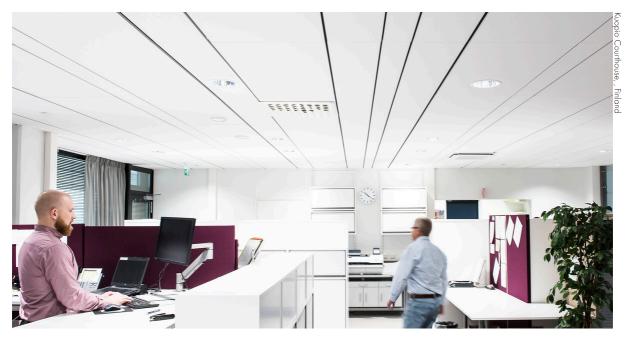
Installation in plasterboard or timber





# 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.



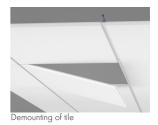
#### SYSTEM RANGE

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









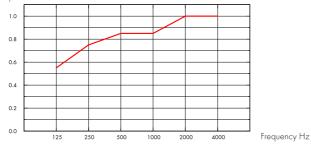
#### Acoustic



#### 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.

 $\alpha_{_{D'}}$  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	$\alpha_{p'}$ Practical sound absorption coefficient						$\alpha_{w}$	Sound absorption class
mm	0.0.5. 11111	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	u.w	
20	200	0.55	0.75	0.85	0.85	1.00	1.00	0.90	А

THK mm	o.d.s. mm	NRC	SAA
20	200	0.85	0.87
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	BOOR AIR COMP		
Eurofins Indoor Air Comfort®	IAC Gold	CARLINED PRODUCT	
French VOC	A+		



#### Cradle to Cradle Certified®

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



#### **Material Health**

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



#### **Carbon footprint**

<b>3</b> 8		kg CO2 equiv/m <sup>2</sup>	Life-cycle stages A1 to C4 from EPD, in conformity with ISO 14025 / EN 15804
	Focus Lp	4,66	



#### Circularity

Minimum post-consumer recycled content	57%
	Fully recyclable



#### Fire safety

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



#### **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

		kg/m²	Weight information is indicative and subject to variation.
_	Focus Lp	2,4	
	Focus Lp + Connect grid system	3,4	



#### **Mechanical properties**

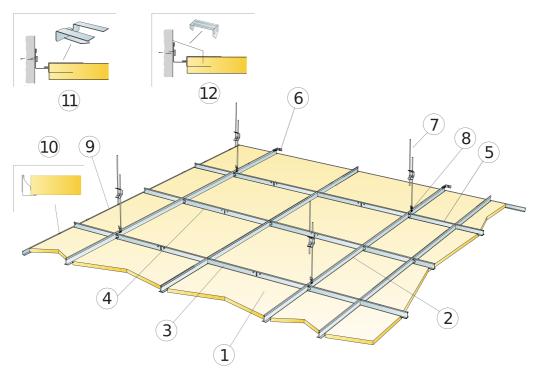
See table about Max live load and Min load bearing capacity and Functional demands, Mechanical properties at www.ecophon.com. For the Technical tiles installed according to M391 there is a load bearing capacity of 100 N for each

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

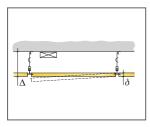
### CE

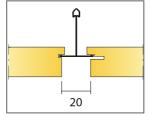
CE

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.

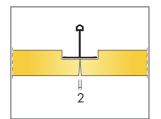


		Size, mm				
		600x300	600x600	1200x300	1200×600	
1	Focus Lp	5,6/m²	2,8/m²	2,8/m²	1,4/m²	
2	Connect T24 Main runner, installed at 1200 mm centres (max distance from wall 600 mm)	0,9m/m²	0,9m/m²	0,9m/m²	0,9m/m²	
3	Connect T24 Cross tee L=1200 mm	3,4m/m²	1,7m/m²	3,4m/m²	1,7m/m²	
4	Connect T24 Cross tee, L=600 mm		0,9m/m²		-	
5	Connect T24 Cross tee, L=300 mm	0,9m/m²		-	-	
5	Connect Wall Bracket for T-profiles	1/suspended row (	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	0,7/m²	
8	Connect Hanger Clip (not to be used in swimming hall environments)	0,7/m²	0,7/m²	0,7/m²	0,7/m²	
9	Connect Angle trim, fixed at 300 mm centres	as required	as required	as required	as required	
10	Connect Wall spring	2 pcs/on every cut	2 pcs/on every cut perimeter tile with only 1 supporting edge			
11	Connect Support clip Dg20		2per perimeter tile, cut on the long side			
12	Connect Perimeter tile clip	1/300-400mm on	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	-	-	-	-	



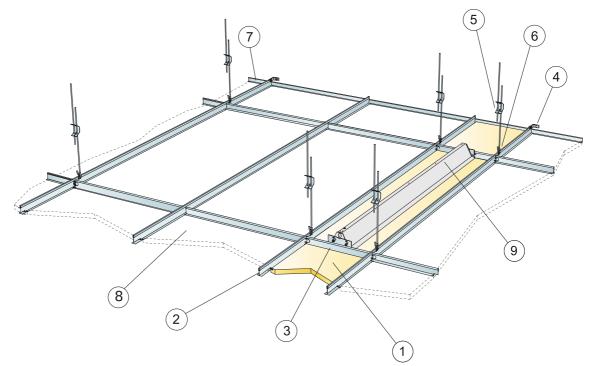


Distance between Focus Lp tiles

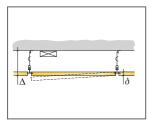


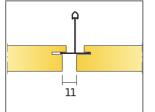
Non-supported edges meeting with space for cross-tee.

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

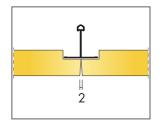


	Size, mm					
	600x150	600x300	600×600	1200x150	1200x300	1200×600
1 Focus Lp Technical tile	11,1/m²	5,6/m²	2,8/m²	5,6/m²	2,8/m²	1,4/m²
2 Connect T24 Main runner	6,7m/m²	3,35m/m²	1,7m/m²	6,7m/m²	3,35m/m²	1,7m/m²
3 Connect T24 Cross tee, L=150/300/600 mm	1,7m/m²	1,7m/m²	1,7m/m²	0,85m/m²	0,85m/m²	0,85m/m²
4 Connect Wall Bracket for T-profiles	1/suspended rc	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
5 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
B Focus Lp (adjacent ceiling)	-					
9 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 Technica tiles can be installed next to each other.	- al	-	-	-	-	-
For luminaire integration in panels use Connect Bridging	-	-		-		-



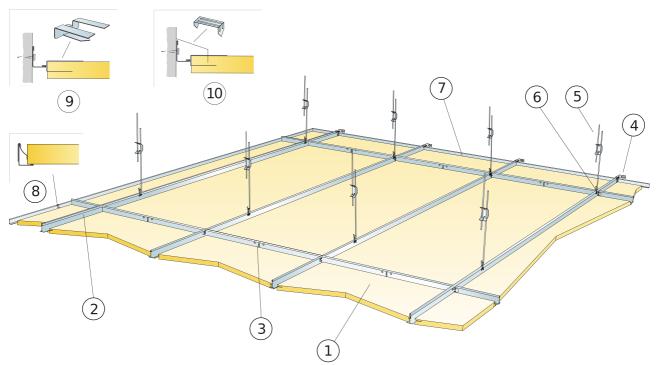


Distance between Focus Lp and Focus Lp Technical tile

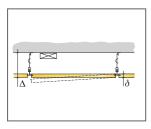


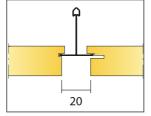
Non-supported edges meeting with space for cross-tee.

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

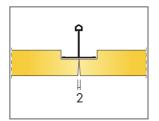


		Size, mm
		1800×600
1	Focus lp	0,95/m²
2	Connect T24 Main runner, installed at 600 mm centres	1,7m/m²
3	Connect T24 Cross tee, L=600 mm	0,6m/m²
4	Connect Wall Bracket for T-profiles	1/suspended row of Main runner
5	Connect Adjustable hanger, installed at 1500 mm centres (max. distance from wall 450 mm)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



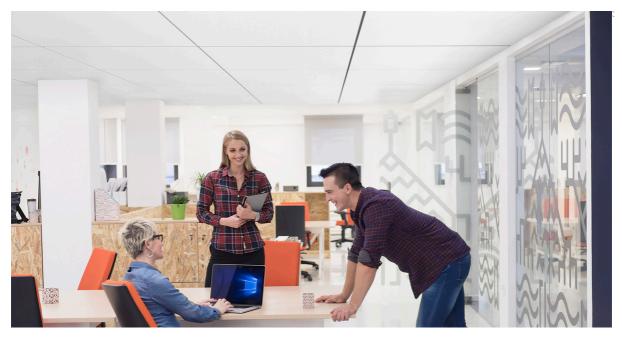
Non-supported edges meeting with space for cross-tee.

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



## Ecophon Focus<sup>™</sup> SQ

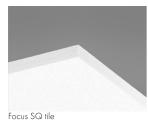
Ecophon Focus<sup>™</sup> SQ bonds directly to the soffit surface. Tiles are installed with a gap between each tile, creating a ceiling with a smooth appearance. For applications where the minimum possible overall depth of system is required due to limited space or other reason.

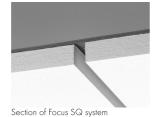


#### SYSTEM RANGE

- L

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







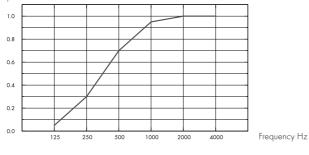
#### Acoustic



#### **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



Focus SQ 20 mm, 23 mm o.d.s.

o.d.s = overall depth of system

ТНК	o d o m	o.d.s. mm	$lpha_{ m p^{\prime}}$ Practical sound absorption coefficient						α <sub>w</sub>	Sound absorption class		
mm	0.0.5. 11		125 Hz	25	0 Hz	500 H	z	1000 Hz	2000 Hz	4000 Hz		Sound absorption class
20	23		0.05	0	.30	0.70		0.95	1.00	1.00	0.60	С
							_					
TH mr			o.d.s. mm		N	RC		SAA				
20			23		0.	75		0.75				

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



#### **Indoor Air Quality**

Certificate / Label	SOR AIR COMP		
Eurofins Indoor Air Comfort®	IAC Gold	PRIMED PRODUCT	
French VOC	A+	-	



#### Cradle to Cradle Certified®

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



#### **Material Health**

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



#### **Carbon footprint**

$\mathbb{P}^{\mathbf{r}}$		kg CO2 equiv/m²	Life-cycle stages A1 to C4 from EPD, in conformity with ISO 14025 / EN 15804
	Focus SQ	4,88	14020 / LIN 10004



#### Circularity

Minimum post-consumer recycled content	57%
Recyclability	Fully recyclable



#### **Fire safety**

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



#### **Humidity Resistance**

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



#### Visual appearance

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



#### Cleanability

Daily dusting and vacuum cleaning. Weekly wet wiping.



#### Accessibility

The tiles are not demountable.



#### Installation

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



#### System weight

\		kg/m²	Weight information is indicative and subject to variation.
-	Focus SQ	2,4	



#### Mechanical properties

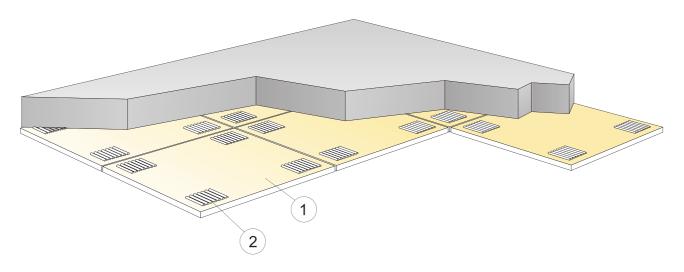
Additional live load has to be fixed to the soffit.

### CE

CE

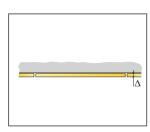
Ecophon ceiling systems are CE marked according to the European harmonized standard EN13964:2014. CE marked construction products are covered by a Declaration of Performance (DOP) which enables customers and users to easily compare performance of products available on the European market.

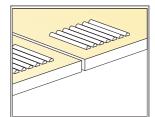
#### INSTALLATION DIAGRAM (M107) FOR ECOPHON FOCUS SQ, USING CONNECT ABSORBER GLUE



#### © Ecophon Group

	Size, mm	Size, mm	
	600×600	1200×600	
Focus SQ	2,8/m²	1,4/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.		-	
$\Delta$ Min. overall depth of system: 23 mm		-	
$\delta$ Min. demounting depth: The system is not demountable		-	
Cut visible edges should be painted		-	
* Panel Module size 600x600 (592x592), 1200x600 (1192x592)	-		





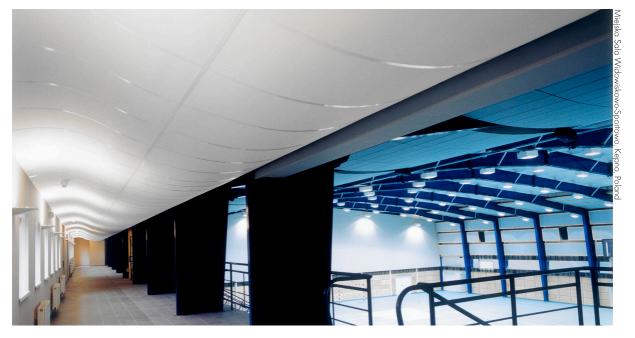
Application of glue

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



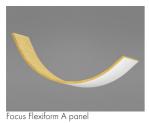
## Ecophon Focus<sup>™</sup> Flexiform A

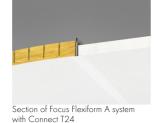
Ecophon Focus<sup>™</sup> Flexiform A panels are delivered flat and formed on site into concave or convex form by means of special profiles. Ideal for creating surfaces with special curvatures, or if the dimensions of the installations above the suspended ceiling cannot be accommodated.



#### SYSTEM RANGE

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







### Acoustic

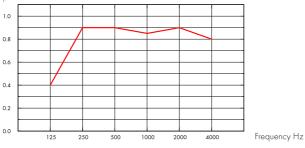


Acoustic values corresponding to a flat ceiling.

#### 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.





- 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						α <sub>w</sub>	Sound absorption class	
mm		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	~~~		
30	200	0.40	0.90	0.90	0.85	0.90	0.80	0.90	A	

THK	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		SOOR AIR COMPANY	ÉMISSIONS DANS L'AIR INTÉRIEUR
Eurofins Indoor Air Comfort®	IAC Gold	REAL PRODUCT	
French VOC	A+		

#### **Carbon 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 / LIN 13004



#### Circularity

Minimum post-consumer recycled content	39%
Recyclability	Fully recyclable



#### **Fire safety**

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



#### **Humidity Resistance**

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



#### **Visual appearance**

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



#### Cleanability

Daily dusting and vacuum cleaning. Weekly wet wiping.



#### Accessibility

The tiles are not demountable.



#### Installation

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



#### System weight

	kg/m²	Weight information is indicative and subject to variation.
Focus Flexiform A	1,4	
Focus Flexiform A + Connect grid system	2,4	-



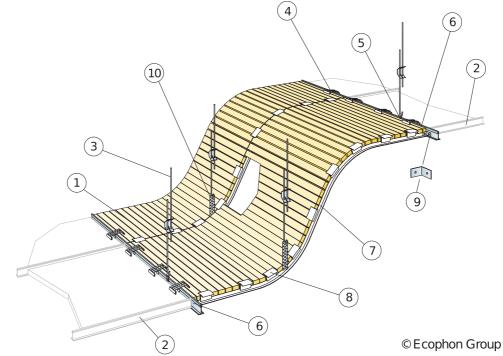
#### **Mechanical properties**

Additional live load has to be fixed to the soffit.

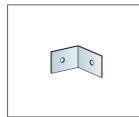


### CE

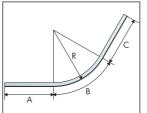
Ecophon ceiling systems are CE marked according to the European harmonized standard EN13964:2014. CE marked construction products are covered by a Declaration of Performance (DOP) which enables customers and users to easily compare performance of products available on the European market.



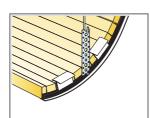
	Size, mm			
	1200×600	1600x600	2000×600	2400×600
1 Focus Flexiform A	as required	as required	as required	as required
2 Connect T24 Cross tee (adjacent ceiling)	as required	as required	as required	as required
3 Connect Adjustable hanger, installed at 1200 mm centres	as required	as required	as required	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

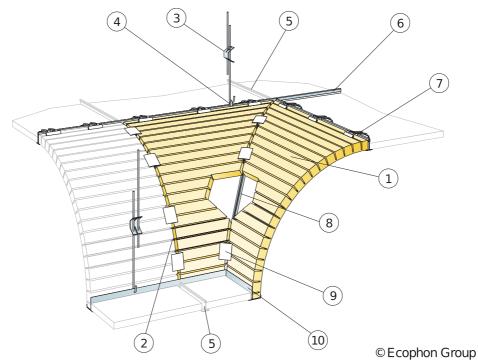


Example with dimensions of Flexiform profile

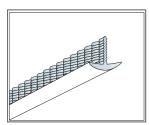


Suspension with metal strip

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

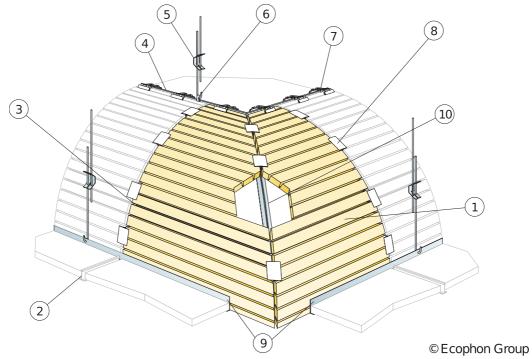


	Size, mm			
	1200×600	1600×600	2000×600	2400×600
1 Focus Flexiform A	as required	as required	as required	as required
2 Connect Flexiform profile/Flexible Flexiform profile, installed at 600 mm centres.	as required	as required	as required	as required
3 Connect Adjustable hanger, installed at 1200 mm centres	as required	as required	as required	as required
1 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
5 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
P 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.	-	-	-	-

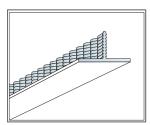


Profile for external corner

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



	Size, mm			
	1200×600	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 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 1 200 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	as required	as required	as required	as required
Flexiform profile: Radius of curve (concave or convex) min 200 mm.	-	-	-	-
Length of flexiform profile: max 2400 mm. When Flexiform profiles are longer than 1 m, intermidiate suspensions are required.	-	-	-	-



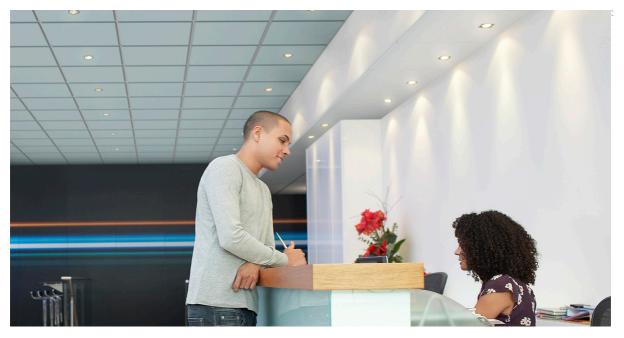
Profile for internal corner

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



# 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

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









Focus Fixiform panel

#### Acoustic

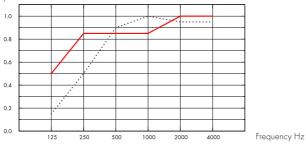


Acoustic values corresponding to a flat ceiling.

#### 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.

 $lpha_{_{D'}}$  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		$lpha_{p'}$ Pr	actical sound	d absorption c	oefficient		$\alpha_{w}$	Sound absorption class
mm	0.0.5. 11111	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz		
20	60	0.15	0.50	0.90	1.00	0.95	0.95	0.80	В
20	200	0.50	0.85	0.85	0.85	1.00	1.00	0.90	А

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		Stoff AIR COMPANY	
Eurofins Indoor Air Comfort®	IAC Gold	RANGED PRODUCT	
French VOC	A+	-	



#### Circularity

Minimum post-consumer recycled content	57%
· · · · · ·	Fully recyclable



#### **Fire safety**

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



#### **Humidity Resistance**

Class A, relative humidity 70% and 25°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.



#### System weight

	kg/m²	Weight information is indicative and subject to variation.
Focus Fixiform E	2,4	
Focus Fixiform E + Connect grid system	3,3	



#### Installation

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



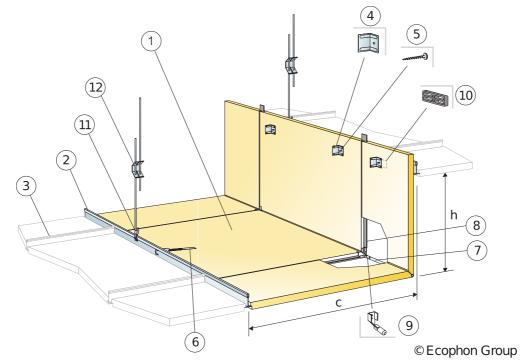
#### **Mechanical properties**

Additional live load has to be fixed to the soffit.

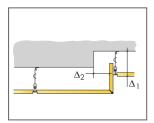


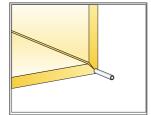
CE

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.

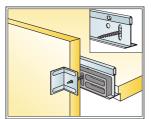


		Size, mm
		1200×600
1	Focus Fixiform E (kit)	as required
2	Connect T24 Main runner	1,8m/m²
3	Connect T24 Cross tee (adjacent ceiling)	as required
4	Angle Bracket Fixiform (included in Fixiform kit)	-
5	Absorber screw metal 50 (included in Fixiform kit)	-
6	Connect Hook (included in Fixiform kit)	-
7	Reinforcement rod (included in Fixiform kit)	-
8	Connect F Spline (included in Fixiform kit)	-
9	Plug for reinforcement rod (included in Fixiform kit)	-
10	Distance (included in Fixiform kit)	-
11	Connect Hanger clip	1 pcs/hanger
12	Connect Adjustable hanger, installed at 600 mm centres at the level change	1,4/m²
	$\Delta$ Min. overall depth of system: $\Delta$ 1=160 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	-





The fold is reinforced by a rod



Upper level connection to Main runner

Size, mm Max live Min load bearing 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

<u></u>	Size, mm	1200x600	XL 1.500x600	XL 1900x600	XL 2300x600
	T24	•	•	•	•
	Thickness (THK)	20	20	20	20
	Inst. Diagr.	M619	M620	M620	M620









Focus Fixiform panel

#### Acoustic

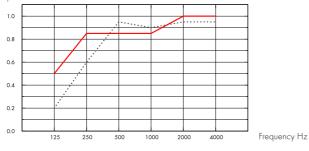


Acoustic values corresponding to a flat ceiling.

#### **Sound Absorption:**

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

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



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

ТНК	o.d.s. mm		α <sub>p</sub> , Pr	actical sound	d absorption c	oefficient		$\alpha_{w}$	Sound absorption class
mm	0.0.3. 11111	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	u.w	
20	75	0.20	0.60	0.95	0.90	0.95	0.95	0.90	А
20	200	0.50	0.85	0.85	0.85	1.00	1.00	0.90	A

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	SOR AIR COMPO		
Eurofins Indoor Air Comfort®	IAC Gold	RATIFIED PRODUCT	
French VOC	A+		



#### Circularity

Minimum post-consumer recycled content	54%
Recyclability	Fully recyclable



#### **Fire safety**

Country	Fire standard	Class	The glass wool core of the tiles is tested and classified as non-combustible according to EN ISO 1182.
Europe	en 13501-1	A2-s1,d0	non-combustible according to ETA 150 TT 62.



#### **Humidity Resistance**

Class A, relative humidity 70% and 25°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.



#### System weight

	kg/m²
Focus Fixiform Ds	2,4
Focus Fixiform Ds + Connect grid system	3,3

$/m^2$	Weight information is indicative and subject to variation.
2,4	



#### **Mechanical properties**

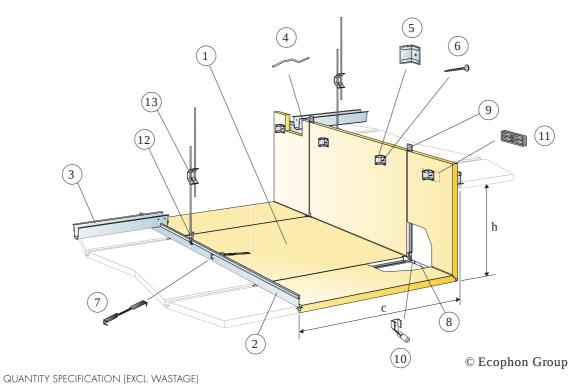
Additional live load has to be fixed to the soffit.



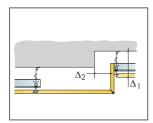
### CE

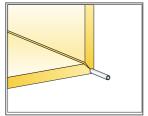
Ecophon ceiling systems are CE marked according to the European harmonized standard EN13964:2014. CE marked construction products are covered by a Declaration of Performance (DOP) which enables customers and users to easily compare performance of products available on the European market.

INSTALLATION DIAGRAM (M619) FOR ECOPHON FOCUS FIXIFORM DS. SUSPENDED INSTALLATION

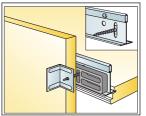


		Size, mm
		1200×600
1	Focus Fixiform Ds (kit)	as required
2	Connect T24 Main runner PL	as required
3	Connect Space bar, installed at 1500 mm centres (max. distance from wall 300 mm)	as required
4	Connect Space bar winch, installed one per joint Main runner/Space bar	as required
5	Angle Bracket Fixiform (included in Fixiform kit)	
5	Absorber screw metal 50 (included in Fixiform kit)	
7	Connect Hook (included in Fixiform kii)	
8	Reinforcement rod (included)	
9	Connect F Spline (included in Fixiform kii)	
10	Plug for reinforcement rod (included)	
11	Distance (included in Fixiform kit)	
12	Connect Hanger clip	1 pcs/hanger
13	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	-





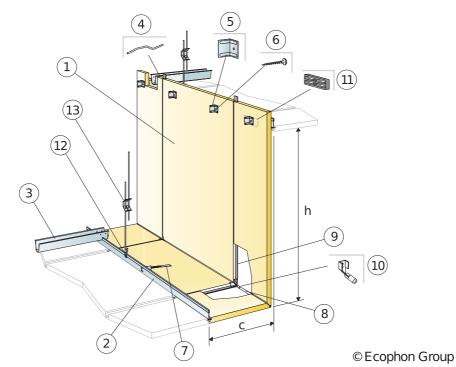
The fold is reinforced by a rod



Upper level connection to Main runner

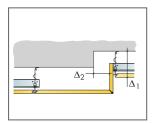


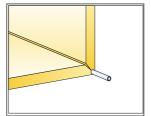
INSTALLATION DIAGRAM (M620) FOR ECOPHON FOCUS FIXIFORM DS XL. SUSPENDED INSTALLATION



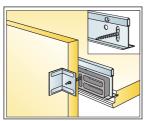
QUANTITY SPECIFICATION (EXCL. WASTAGE)

		Size, mm	Size, mm			
		1500×600	1900x600	2300x600		
1	Focus Fixiform Ds XL [kit]	as required	as required	as required		
2	Connect T24 Main runner PL	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)	-	-	-		
9	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	1pcs/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

0	160
0	160
0	160
	0



## Ecophon Focus<sup>™</sup> Frieze

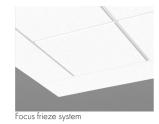
Ecophon Focus<sup>™</sup> Frieze is available for edge Dg, Ds, A and E. The frieze can be connected to the wall without any visible trims. For applications where a smooth continuous transition between ceiling and wall is needed.



#### SYSTEM RANGE

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





ocus meze puner

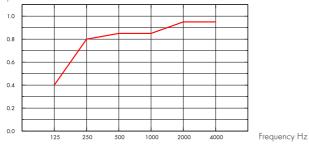
#### Acoustic



#### Sound Absorption:

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

 $\alpha_{_{D'}}$  Practical sound absorption coefficient



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

o.d.s = overall depth of system

THK	o.d.s. mm		$lpha_{ m p'}$ Pr	Practical sound absorption coefficient					Sound absorption class
mm	0.0.3. 11111	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	$\alpha_{w}$	
20	200	0.40	0.80	0.85	0.85	0.95	0.95	0.90	А

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



#### Cradle to Cradle Certified®

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



#### **Material Health**

CEI

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



#### Circularity

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



#### **Fire safety**

)	Country	Fire standard	Class	The glass wool core of the tiles is tested and classified as non-combustible according to EN ISO 1182.
	Europe	EN 13501-1	A2-s1,d0	non composible according to ETV100 TT02.



#### **Humidity Resistance**

Class A, relative humidity 70% and 25°C, according to EN 13964:2014



#### **Humidity Resistance**

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



#### **Visual appearance**

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



#### Cleanability

Daily dusting and vacuum cleaning. Weekly wet wiping.



#### Accessibility

The tiles are not demountable



#### Installation

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



#### System weight

	kg/m²	Weight information is indicative and subject to variation.
Focus Frieze	2,3	
Focus Frieze + Connect grid system	3,3	



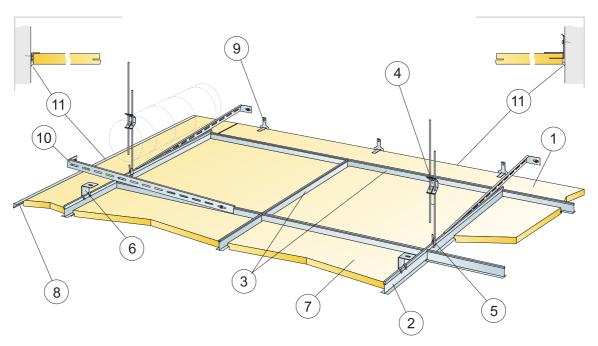
#### **Mechanical properties**

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

### CE

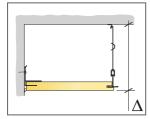
CE

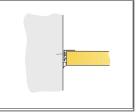
Ecophon ceiling systems are CE marked according to the European harmonized standard EN13964:2014. CE marked construction products are covered by a Declaration of Performance (DOP) which enables customers and users to easily compare performance of products available on the European market.



#### © Ecophon Group

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

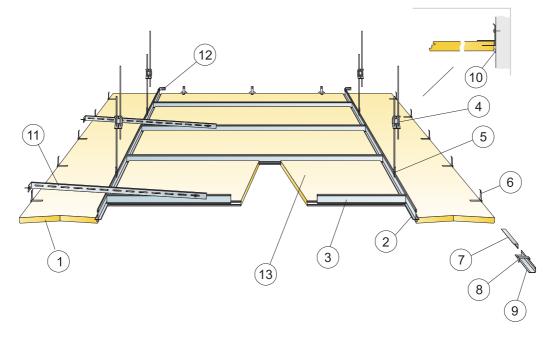




Fixing with frieze trim

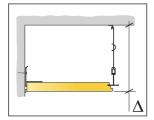
Size, mm Max live Min load bearing load [N] capacity [N] 2400x600x20 0 160

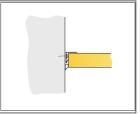
Fixing with frieze bracket



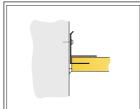
© Ecophon Group

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





Fixing with frieze trim



Size, mm Max live Min load bearing load [N] capacity [N] 2400x600x20 0 160

Fixing with frieze bracket

## 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	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	Al



#### Installation

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



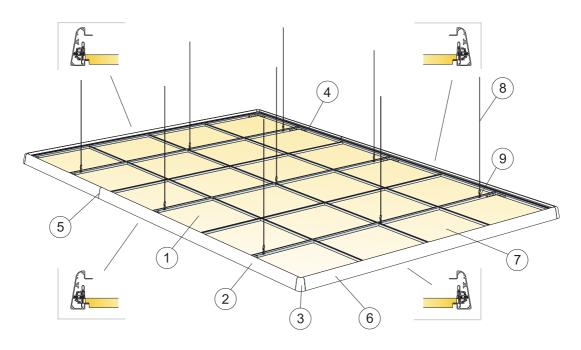
#### **Mechanical properties**

Additional live load has to be fixed to the soffit.



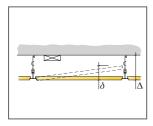
### CE

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.

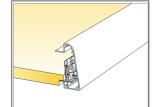


#### © Ecophon Group

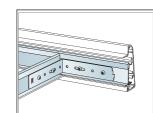
	Size, mm	
	600×600	1200×600
1 Focus E	2,8/m²	1,4/m²
2 Connect Edge 500 Profile	as required	as required
3 Connect Edge Corner	as required	as required
4 Connect Lcoupling	as required	as required
5 Joint with Guide pins and Joint fixing bracket, (see Edge kit for further details)	as required	as required
6 Connect Edge profile clip E, (18 pcs/kit included in Connect Edge kit E)	as required	as required
7 Focus E tile and Connect grid	as required	as required
8 Connect Adjustable wire hanger, installed at 1200 mm centres	as required	as required
9 Connect Hanger clip	as required	as required
Connect Edge kit E: 18 pcs Connect Edge profile clip with screw RTK 3,5x19, 4 pcs Joint fixing bracket, 1 pc socket screw wrench 2 mm, 1 pc socket screw wrench 110, 12 pcs guide pins, 24 pcs screws RTK ST 3,5x9,5 (for fixing to extrusion), 1 pc installation guide	as required	as required
Not included in kit: Connect L-coupling	-	-
Not included in kit: Connect Installation screw BR for L-coupling	-	-
$\Delta$ Min. overall depth of system: 130 mm	-	-
$\delta$ Min. demounting depth: See Focus/Master E	-	-



QUANTITY SPECIFICATION (EXCL. WASTAGE)

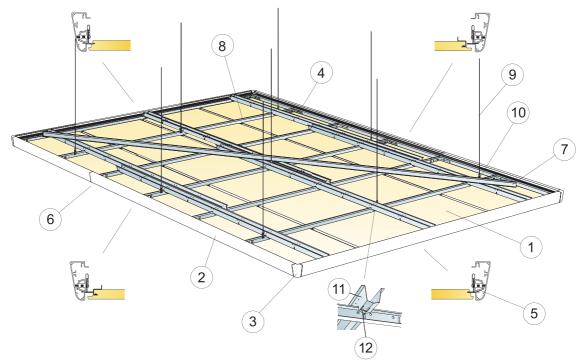


Joint between tile and Edge profile

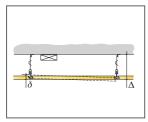


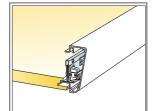
Connection between T-profile and Edge extrusion

Max live load (N) 50	
50	160
	load (N) 50

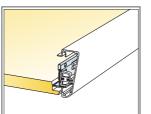


	Size, mm		
	600×600	1200×600	1200x1200
1 Focus Ds	2,8/m²	1,4/m²	0,7/m²
2 Connect Edge 500 Profile	as required	as required	as required
3 Connect Edge 500 Corner	as required	as required	as required
4 Connect L-coupling	as required	as required	as required
5 Connect Edge profile clip, [18 pcs/kit included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





Joint with tile side Ds1



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

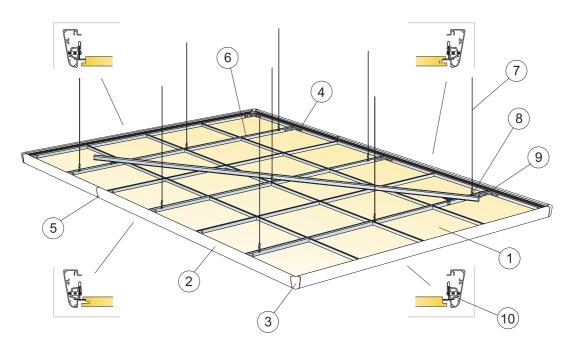
 600x600x20
 50
 160

 1200x600x20
 50
 160

 1200x1200x20
 50
 160

Joint with tile side Ds2 and extra profile

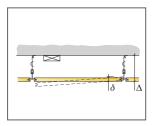


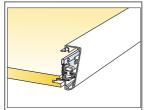


#### © Saint-Gobain Ecophon AB

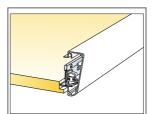
QUANTITY SPECIFICATION (EXCL. WASTAGE)

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





Joint between tile and Edge profile



Connection between T-profile and Edge extrusion

1200x600x20		
1200/000/20	50	160
1200x1200x25	50	160

Live load/load bearing capacity



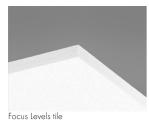
### Ecophon Focus<sup>™</sup> Levels

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

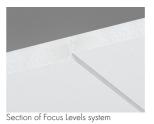


SYSTEM RANGE

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







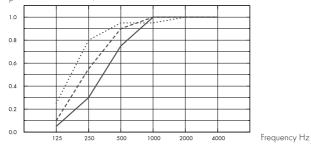
#### Acoustic



#### Sound Absorption:

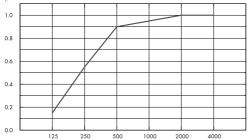
Test results according to EN ISO 354. Classification according to EN ISO 11654, and the single value ratings for Noise Reduction Coefficient, NRC and Sound Absorption Average, SAA according to ASTM C 423.

 $\alpha_{_{D'}}$  Practical sound absorption coefficient



- ···· Focus Levels 40 mm, 43 mm o.d.s.
- --- Focus Levels 30 mm, 33 mm o.d.s.
- Focus Levels 20 mm, 23 mm o.d.s.
- o.d.s = overall depth of system

 $lpha_{
m p'}$  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	$lpha_{ m p'}$ Practical sound absorption coefficient						$\alpha_{w}$	Sound absorption class
mm	0.0.5. 11111	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	u.,,	Sound absorption class
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
30	33	0.85	0.86
20	23	0.75	0.78
0	43	0.85	0.85

#### **Indoor Air Quality**

Certificate / Label		SOR AIR COMP	
Eurofins Indoor Air Comfort®	IAC Gold	CARTIFIED PRODUC	
French VOC	A+		



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#### Cradle to Cradle Certified®

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



#### **Material Health**

CERTIFIED

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



#### **Carbon footprint**

	kg CO2 equiv/m²	Life-cycle stages A1 to C4 from EPD, in conformity with ISO 14025 / EN 15804
Focus Levels 20mm	5,03	
Focus Levels 30mm	6,23	-
Focus Levels 40mm	7,44	-



#### Circularity

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



#### Fire safety

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



#### **Humidity Resistance**

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



#### **Visual appearance**

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



#### Cleanability

Daily dusting and vacuum cleaning. Weekly wet wiping.

#### Accessibility

The tiles are not demountable.



#### Installation

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



#### System weight

	kg/m²
Focus Levels 20 mm	2,4
Focus Levels 30 mm	3,4
Focus Levels 40 mm	4,4

Weight information is indicative and subject to variation.



#### **Mechanical properties**

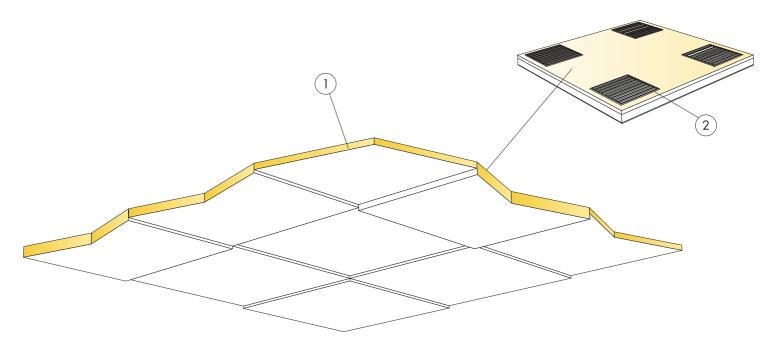
Additional live load has to be fixed to the soffit.

CE

#### CE

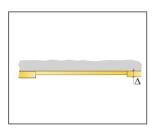
Ecophon ceiling systems are CE marked according to the European harmonized standard EN13964:2014. CE marked construction products are covered by a Declaration of Performance (DOP) which enables customers and users to easily compare performance of products available on the European market.

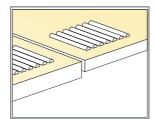
#### INSTALLATION DIAGRAM (M488) FOR ECOPHON FOCUS LEVELS, USING CONNECT ABSORBER GLUE



© Ecophon Group

	Size, mm	Size, mm	
	600×600	1200x300	1200×600
Focus Levels	2,8/m²	2,8/m²	2,8/m²
Connect Absorber glue {0,25 l/m² - 0,4 l/m² depending on installation conditions}	as required	as required	as required
Use Connect Natched spatula to apply the glue.			-
$\Delta$ Min. overall depth of system: 23 mm		-	-
$\delta$ Min. demounting depth: The system is not demountable		-	-
Cut visible edges should be painted		-	-
Installation shows 30% of each thickness			-

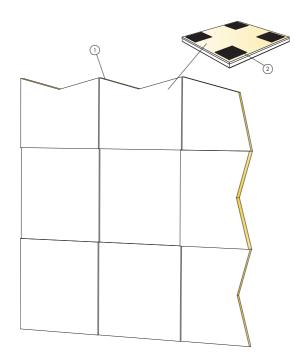




Application of glue

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

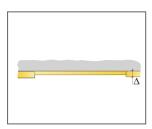
INSTALLATION DIAGRAM (M489) FOR ECOPHON FOCUS LEVELS, USING CONNECT ABSORBER GLUE

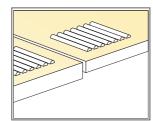


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#### QUANTITY SPECIFICATION (EXCL. WASTAGE)

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





Application of glue

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