

Ecophon FocusTM Ds

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



SYSTEM RANGE



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







Section of Focus Ds system with Connect T24 Main runner PL



Focus Ds system



The individual tiles are easily demountable

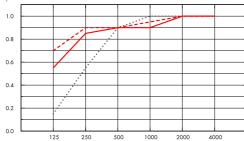
Acoustic



Sound Absorption:

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

 $\alpha_{\text{p}'}$ 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

Frequency Hz

	THK	a d a maa		α _p , Pra	ctical sound	d absorption	coefficient		α	Sound absorption class
	mm	o.d.s. mm	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	$\alpha_{\scriptscriptstyle ext{w}}$	Souria absorption class
-	20	65	0.15	0.55	0.90	1.00	1.00	1.00	0.85	В
-	20	200	0.55	0.85	0.90	0.90	1.00	1.00	0.95	А
+ Extra Bass	<i>7</i> 0	200	0.70	0.90	0.90	0.95	1.00	1.00	0.95	А

	THK mm	o.d.s. mm	NRC	SAA
-	20	65	0.85	0.86
-	20	200	0.90	0.93
+ Extra Bass	<i>7</i> 0	200	0.95	0.95

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

Indoor Air Quality













Cradle to Cradle Certified®



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



Material Health

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



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)	3,72	14023 / ET 10004



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	Horreombosible decording to ETV 130-1102.



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 Ds	2	
Focus Ds + Connect grid system	2,9	



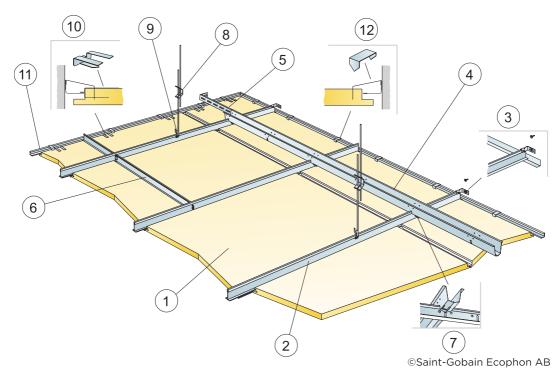
Mechanical properties

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

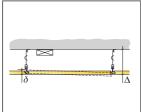


CE

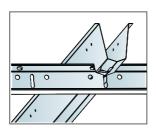
Ecophon ceiling systems are CE marked according to the European harmonized standard EN 13964:2014. CE marked construction products are covered by a Declaration of Performance (DOP) which enables customers and users to easily compare performance of products available on the European market.

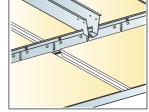


	Size, mm					
	600×600	1200×600	1600×600	1800×600	2000×600	2400×600
Focus Ds	2,8/m²	1,4/m²	1,05/m²	0,95/m²	0,85/m²	0,7/m²
Connect T24 Main Runner PL, installed at 600 mm centres	1,7m/m²	1,7m/m²	1,7m/m²	1,7m/m²	1,7m/m²	1,7m/m²
Connect Wall Bracket for T-profiles	1/suspended ro	w of Main runner				
Connect Space Bar, installed at 1500 mm centres (max. distance from wa 300 mm)	0,7m/m²	0,7m/m²	0,7m/m²	0,7m/m²	0,7m/m²	0,7m/m²
Connect Wall Bracket, L=700 mm, for Connect Space Bar	1/row of Space	bar				
Connect T24 Cross Tee, L=600 mm	2/row of Main	runner				
Connect Space Bar Winch, installed one per joint Connect Main Runner/Connect Space Bar	1,4/m²	1,4/m²	1,4/m²	1,4/m²	1,4/m²	1,4/m²
Connect Adjustable Hanger, installed at 1200 mm centres (max. distance from wall 600 mm)	0,7/m²	0,7/m²	0,7/m²	0,7/m²	0,7/m²	0,7/m²
Connect Hanger Clip (not to be used in swimming hall environments)	0,7/m²	0,7/m²	0,7/m²	0,7/m²	0,7/m²	0,7/m²
0 Connect Support clip DG20	1рс/300-400 г	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
2 Connect Perimeter tile clip	1/300-400mm	on any cut edge				
Δ Min. overall depth of system: 120 mm	-	-	-	-	-	-
δ Min. demounting depth: 30 mm	-	-	-	-	-	-
For luminaire integration in panels use Connect Bridging	-	-	-	-	-	-







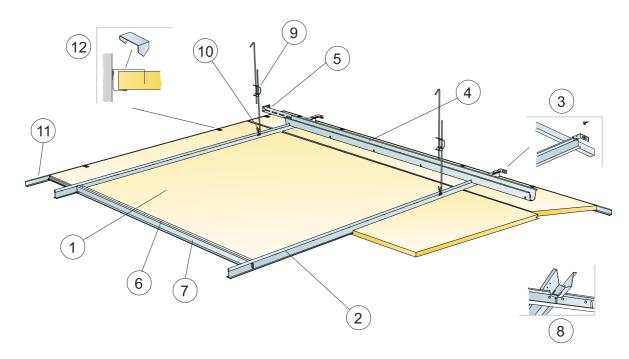


Installation with Main runner PL and space bar

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

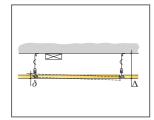
Live load/load bearing capacity

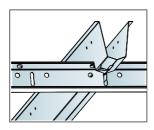
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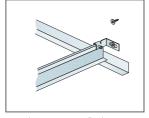


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		Size, mm
		1200×1200
1	Focus Ds	0,7/m²
2	Connect T24 Main Runner PL, installed at 1200 mm centres	O,9m/m²
3	Connect Wall Bracket for T-profiles	1/suspended row of Main runner
4	Connect Space Bar, installed at 1500 mm centres (max. distance from wall 300 mm)	0,7m/m²
5	Connect Wall Bracket, L=700 mm, for Connect Space Bar	1/row of Space bar
6	Connect Edge stiffener	1,4/m²
7	Connect T24 Cross tee, L=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
	Δ Min. overall depth of system: 120 mm	-
	δ Min. demounting depth: 50 mm	
	For luminaire integration in panels use Connect Bridging	-



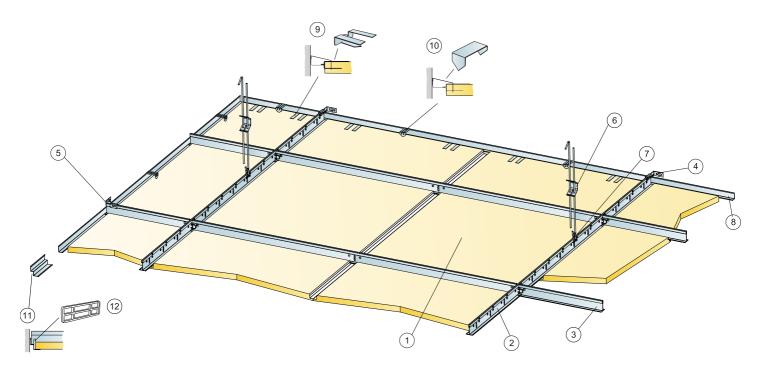




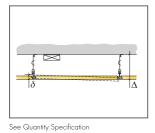
Secured Main runner at wall with Connect Wall bracket

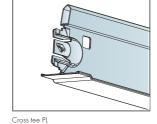


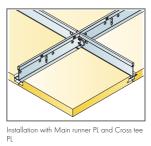
Live load/load bearing capacity



		Size, mm	
		600×600	1200×600
1	Focus Ds	2,8/m²	1,4/m²
2	Connect T24 Main Runner PL, installed at 1200 mm centres	0,9m/m²	0,9m/m²
3	Connect T24 Cross Tee PL, L=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 to	ee
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	1pc/300-400 m tile with only 1 su	nm on every cut perimeter upporting 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
	Δ Min. overall depth of system: 120 mm	-	-
	δ Min. demounting depth; 30 mm	-	-
	For luminaire integration in panels use Connect Bridging	-	=



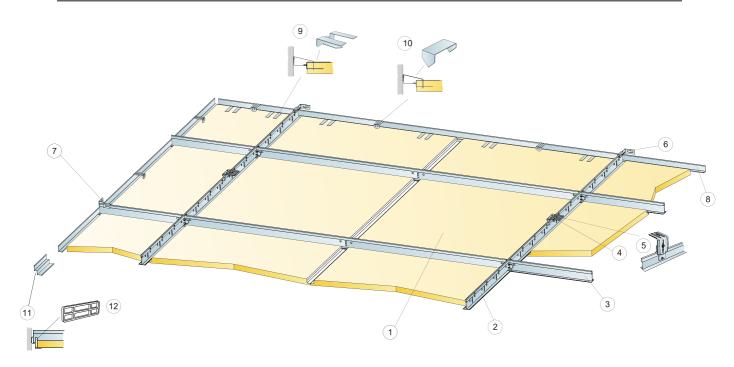




Size, mm	Max live load (N) 50	Min load bearing capacity [N]
1200x600x20	50	160

Live load/load bearing capacity

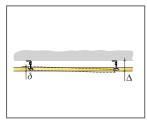
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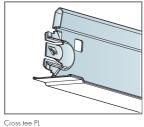
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QUANTITY SPECIFICATION (EXCL. WASTAGE)

		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 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 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/m²	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 t	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		1pc/300-400 mm on every cut perimeter tile with only 1 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	lon the long side of every cut perimeter tile	
	Δ Min. overall depth of system: 65 mm	-	-	
	δ Min. demounting depth: 30 mm	-	-	
	For luminaire integration in panels use Connect Bridging	-	-	



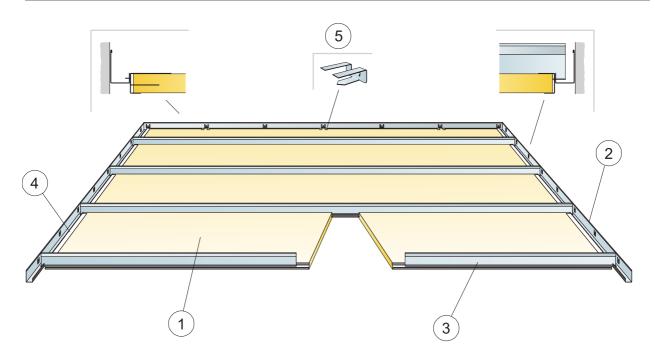




Installation with Main runner PL and Cross tee PL

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

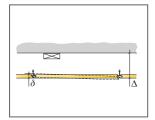
Live load/load bearing capacity

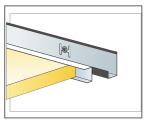


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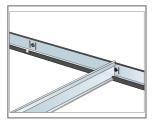
QUANTITY SPECIFICATION (EXCL. WASTAGE)

	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
Connect Modular Wall trim	as required	as required	as required	as required
Connect T24 Corridor profile	1,05/m²	0,95/m²	0,85/m²	0,7/m²
Connect Cover trim Ds	2/tile plus end ti	les		
Connect Support clip Dg 20 0547	1pc/300-400 n	nm on every cut perim	eter tile with only 1 su	pporting edge
Δ Min. overall depth of system: 55 mm		-	-	-
δ Min. demounting depth: 30 mm		-	-	-





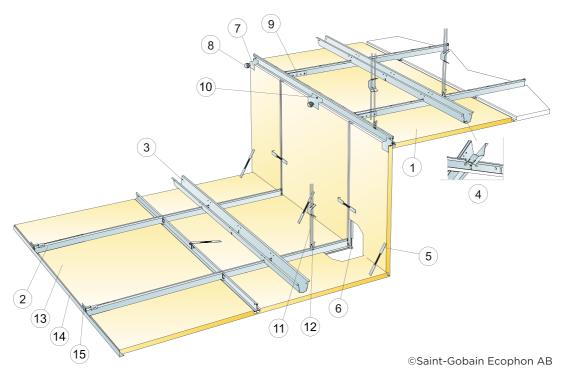
Tile and Connect Cover trim Ds



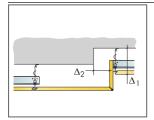
Corridor profile positioned by Modular wall trim

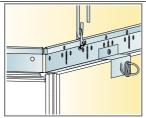
Size, mm	Max live load (N)	Min load bearing capacity [N]
1600x600x20	40	
1800x600x20	20	-
2000x600x20	10	-
2400x600x20	0	-

Live load/load bearing capacity

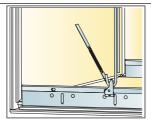


		Size, mm	Size, mm	
		600×600	1200×600	
1	Focus Ds	2,8/m²	1,4/m²	
2	Connect T24 Main Runner PL, installed at 600 mm centres	1,7m/m²	1,7m/m²	
3	Connect Space bar, installed at 1500 mm centres (max. distance from Vertical tile 450 mm)	0,7m/m²	0,7m/m²	
4	Connect Space Bar Winch, installed one per joint Connect Main Runner/Connect Space Bar	1,4/m²	1,4/m²	
5	Connect Hook	3/panel	3/panel	
6	Connect Level Clip Ds (included in Level change Ds kit)	1/panel	1/panel	
7	Connect level clip Ds (included in Level change Ds kit)	1/panel	1/panel	
8	Connect Spiral anchor	1/panel	1/panel	
9	Connect L-coupling	1/row of Main r	unner	
10	Connect Installation screw BR (2000 pcs)	as required	as required	
11	Connect Adjustable hanger, installed at 1 200 mm centres (max. distance from wall 600 mm)	0,7/m²	0,7/m²	
12	Connect Hanger Clip (not to be used in swimming hall environments)	0,7/m²	0,7/m²	
13	Focus Ds Perimeter tile L=300-600	as required	as required	
14	Connect Angle trim 15/22, fixed at 300 mm centres	as required	as required	
15	Connect Wall Bracket for T-profiles	1/suspended ro	w of Main runner	
	Δ Min. overall depth of system: 150 mm from upper level	-	-	
	δ Min. demounting depth: Individual ceiling tiles are non-demountable	-	-	
	Dimension: c=600 mm, h<530 mm	÷	-	





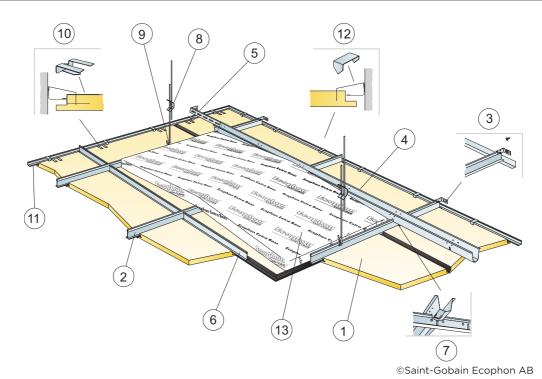




Lower level connection fixed with Hook

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

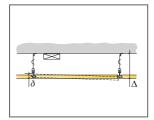
Live load/load bearing capacity

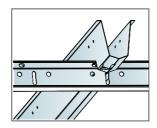


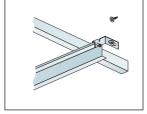
QUA

Jantity 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 600 mm centres	1,7m/m²	1,7m/m²	
3	Connect Wall Bracket for T-profiles	1/suspended ro	1/suspended row 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	1/row of Space bar	
6 Connect T24 Cross tee, L=600 mm 2/row of N		2/row of Main	unner	
7	Connect Space Bar Winch, installed one per joint Connect Main Runner/Connect Space Bar	1,4/m²	1,4/m²	
8	Connect Adjustable Hanger, installed at 1200 mm centres (max. distance from wall 600 mm)	0,7/m²	0,7/m²	
7	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	
	Δ Min. overall depth of system: 120 mm	-	÷	
	δ Min, demounting depth: 30 mm	-	-	







Connection between profiles with split pin

Size, mm	Max live load (N) 25	Min load bearing capacity [N]
1200x600x20	25	160
120000000020	23	100

Live load/load bearing capacity