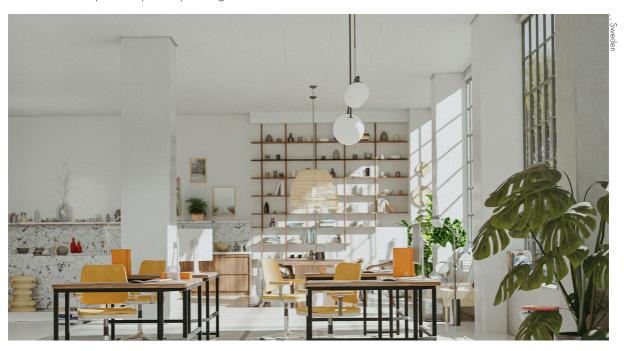


Ecophon FocusTM Ds

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. Installed with Precision Lock system – patent pending.

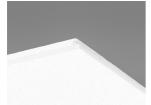


SYSTEM RANGE



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

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Section of Focus Ds system with Connect T24 Main runner PL



Focus Ds system



The individual tiles are easily demountable

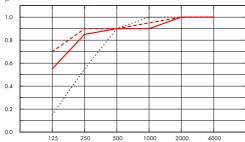
Acoustic



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.





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

o.d.s = overall depth of system

Frequency Hz

THK			$lpha_{ m p}$, Practical sound absorption coefficient					$\alpha_{_{ m W}}$	Sound absorption class			
	mm o.d.s. m		mm O.d.s.		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	u _w	Sound absorption class
-	20	65	0.15	0.55	0.90	1.00	1.00	1.00	0.85	В		
-	20	200	0.55	0.85	0.90	0.90	1.00	1.00	0.95	А		
+ Extra Bass	70	200	0.70	0.90	0.90	0.95	1.00	1.00	0.95	А		

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



Certificate / Label	
Eurofins Indoor Air Comfort®	IAC Gold
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



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)	3,68	17020 / 211 10007



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	non-combosible according to ETV 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 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.

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System weight

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



Mechanical properties

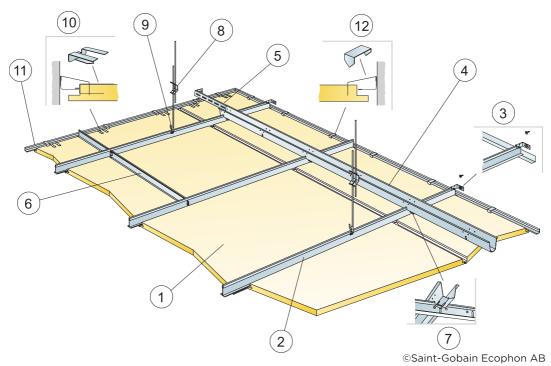
See table about Max live load and Min load bearing capacity and Functional demands, Mechanical properties at www.ecophon.com.



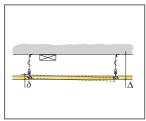
CE

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.

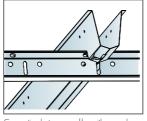
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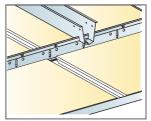
		Size, mm					
		600×600	1200×600	1600×600	1800×600	2000×600	2400×600
1	Focus Ds	2,8/m²	1,4/m²	1,05/m²	0,95/m²	0,85/m²	0,7/m²
2	Connect T24 Main Runner PL, installed at 600 mm centres	1,7m/m²	1,7m/m²	1,7m/m²	1,7m/m²	1,7m/m²	1,7m/m²
3	Connect Wall Bracket for T-profiles	1/suspended	row of Main runn	er			
4	Connect Space Bar, installed at 1500 mm centres (max. distance from wall 300 mm)	0,7m/m²	0,7m/m²	0,7m/m²	0,7m/m²	0,7m/m²	0,7m/m²
5	Connect Wall Bracket, L=700 mm, for Connect Space Bar	1/row of Spa	ce 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
8	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
9	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) mm on every cut	perimeter tile with	only 1 supportin	g edge	
11	Connect Angle trim 15/22, fixed at 300 mm centres	as required	as required	as required	as required	as required	as required
12	Connect Perimeter tile clip	1/300-400m	m on any cut edge	•			
	Δ Min. overall depth of system: 120 mm	-	-	-	-	-	-
	δ Min. demounting depth: 30 mm	-	-	-	-	-	-
	For luminaire integration in panels use Connect Bridging	-	-	-	-	-	-



See Quantity Specification



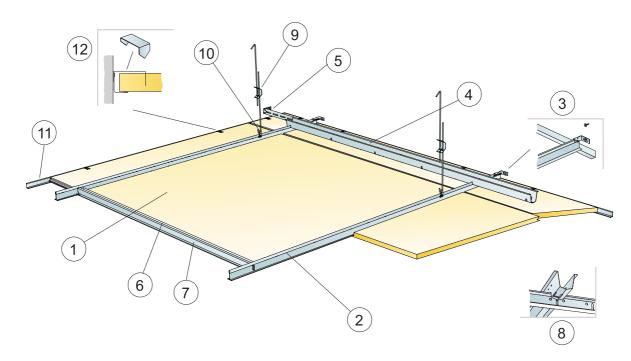
Connection between profiles with space bar winch



Installation with Main runner PL and space bar

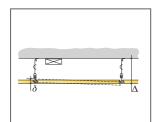
Size, mm	Max live load (N)	Min load bearing capacity (N)
600x600x20	35	160
1200x600x20	35	160
1600x600x20	35	160
1800x600x20	35	160
2000x600x20	35	160
2400x600x20	35	160

Live load/load bearing capacity

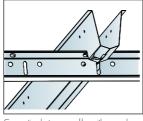


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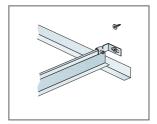
		Size, mm
		1200×1200
1	Focus Ds	0,7/m²
2	Connect T24 Main Runner PL, installed at 1200 mm centres	0,9m/m²
3	Connect Wall Bracket for T-profiles	1/suspended row of Main runner
4	Connect Space Bar, installed at 1500 mm centres (max. distance from wall 300 mm)	0,7m/m²
5	Connect Wall Bracket, L=700 mm, for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



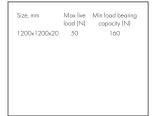
See Quantity specification



Connection between profiles with space bar winch

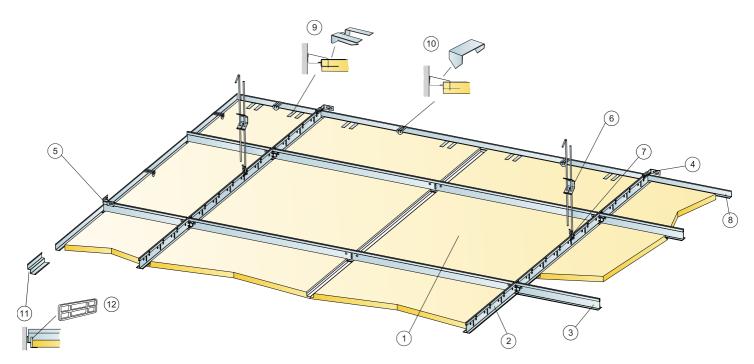


Secured Main runner at wall with Connect Wall bracket

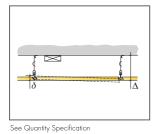


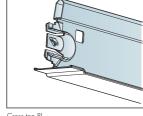
Live load/load bearing capacity

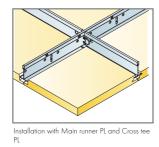
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		Size, mm	
		600×600	1200×600
1 Fo	pcus Ds	2,8/m²	1,4/m²
2 Co	ionnect T24 Main Runner PL, installed at 1 200 mm centres	0,9m/m²	0,9m/m²
3 Ca	ionnect T24 Cross Tee PL, L=1200 mm, installed at 600 mm centres	1,7m/m²	1,7m/m²
4 C	ionnect Wall Bracket,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

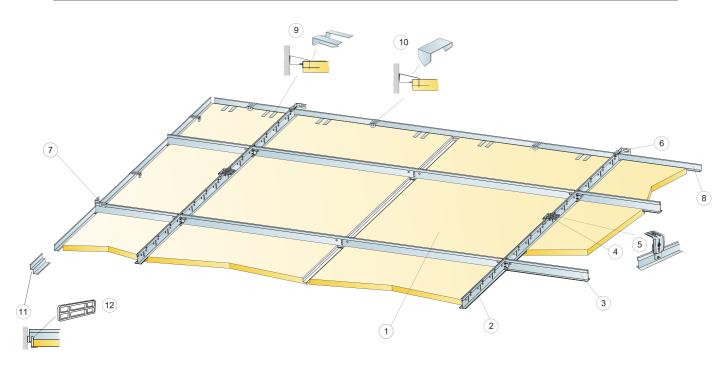






Cross tee PL

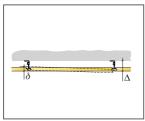
Live load/load bearing capacity



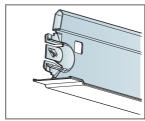
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QUANTITY SPECIFICATION (EXCL. WASTAGE)

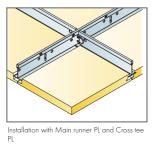
		Size, mm	
		600×600	1200×600
1 Focus D	Vs	2,8/m²	1,4/m²
2 Connec	t T24 Main Runner PL, installed at 1200 mm centres	0,9m/m²	0,9m/m²
3 Connec	tt T24 Cross Tee PL, L=1200 mm, installed at 600 mm centres	1,7m/m²	1,7m/m²
4 Connec	t Direct bracket, (installed at 1200 mm centres)	0,7/m²	0,7/m²
5 Alt. Cor	nnect Adjust direct bracket, installed at 1 200 mm centres	0,7/m²	0,7/m²
6 Connec	t Wall Bracket, fixed 1200mm centres for Main runner	2/suspended row of Main runn	ner
7 Connec	t Wall Bracket, fixed 1200mm centres for Cross tee	1/row of cross tee	
8 Connec	t Angle trim 15/22, fixed at 300 mm centres	as required	as required
9 Connec	t Support clip Dg20	1 pc/300-400 mm on every cut	t perimeter tile with only 1 supporting edge
10 Connec	t Perimeter tile clip	1/perimeter tile	
11 Connec	ct Shadow-line trim, fixed at 300 mm centres	as required	as required
12 Connec	t Wall spacer 5	1 on the long side of every cut p	perimeter tile
Δ Min.	overall depth of system: 65 mm	-	-
δ Min.	demounting depth: 30 mm	-	-
For lumi	naire integration in panels use Connect Bridging	-	-





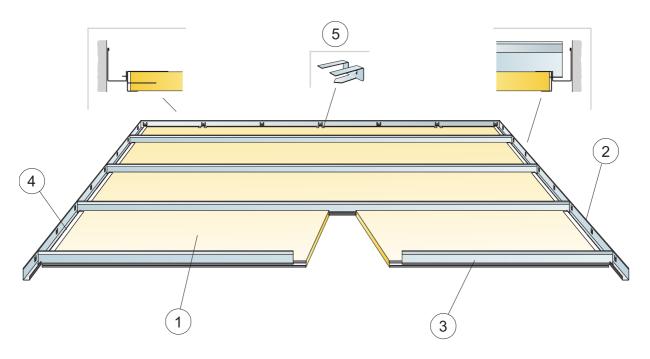


Cross tee PL



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

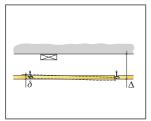
Live load/load bearing capacity



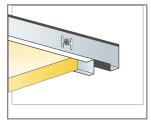
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QUANTITY SPECIFICATION (EXCL. WASTAGE)

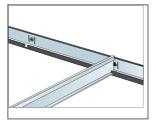
		Size, mm			
		1600×600	1800×600	2000×600	2400×600
l	Focus Ds XL	1,05/m²	0,95/m²	0,85/m²	0,7/m²
2	Connect Modular Wall trim	as required	as required	as required	as required
	Connect T24 Corridor profile	1,05/m²	0,95/m²	0,85/m²	0,7/m²
	Connect Cover trim Ds	2/tile plus end tiles			
	Connect Support clip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







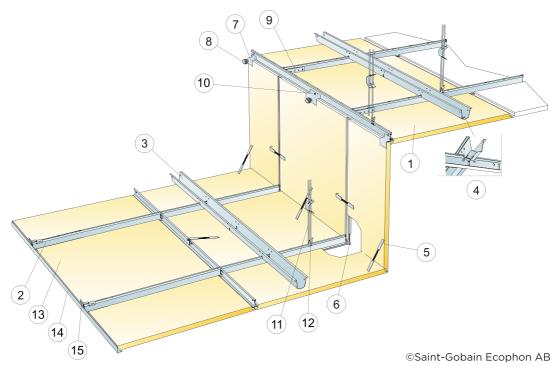
Tile and Connect Cover trim Ds



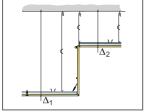
Corridor profile positioned by Modular wall trim

1600x600x20 40 1800x600x20 20 2000x600x20 10	
2000x600x20 10	
2400x600x20 0	

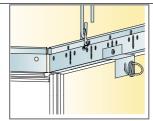
Live load/load bearing capacity



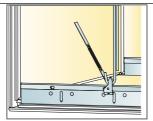
		Size, mm	
		600×600	1200×600
1	Focus Ds	2,8/m²	1,4/m²
2	Connect T24 Main Runner PL, installed at 600 mm centres	1,7m/m²	1,7m/m²
3	Connect Space bar, installed at 1500 mm centres (max. distance from Vertical tile 450 mm)	0,7m/m²	0,7m/m²
4	Connect Space Bar Winch, installed one per joint Connect Main Runner/Connect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







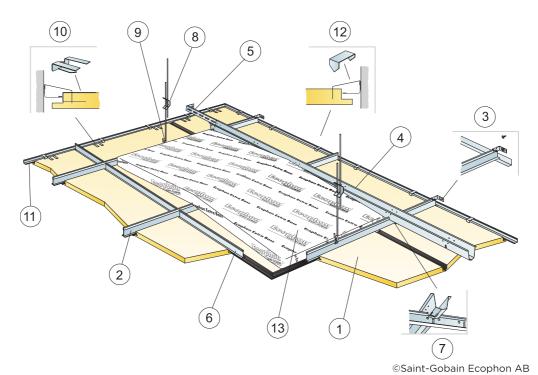
Upper level connection to Main runner PL



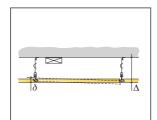
Lower level connection fixed with Hook

Size, mm	Max live load [N]	capacity [N]
600x600x20	0	160
1200x600x20	0	160

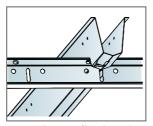
Live load/load bearing capacity



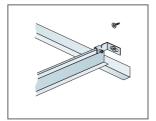
Size, mm 600×600 1200x600 Focus Ds $2.8/m^{2}$ $1,4/m^2$ Connect T24 Main Runner PL, installed at 600 mm centres 1,7m/m² 1,7m/m² Connect Wall Bracket for T-profiles 1/suspended row of Main runner Connect Space Bar, installed at 1500 mm centres (max. distance from wall 300 mm) 0,7m/m² $0.7 \, \text{m/m}^2$ 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 $1.4/m^2$ 1,4/m² Connect Adjustable Hanger, installed at 1200 mm centres (max. distance from wall 600 mm) $0.7/m^{2}$ $0.7/m^{2}$ 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 Connect Angle trim black, (fixed at 300 mm centres) as required 12 Connect Perimeter tile clip 1/300-400mm on any cut edge Extra Bass (1200x600x50 mm) $0.7/m^2$ $0.7/m^2$ Δ Min. overall depth of system: 120 mm δ Min. demounting depth: 30 mm



See Quantity specification



Connection between profiles with space bar winch



Connection between profiles with split pin

160
100

Live load/load bearing capacity

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