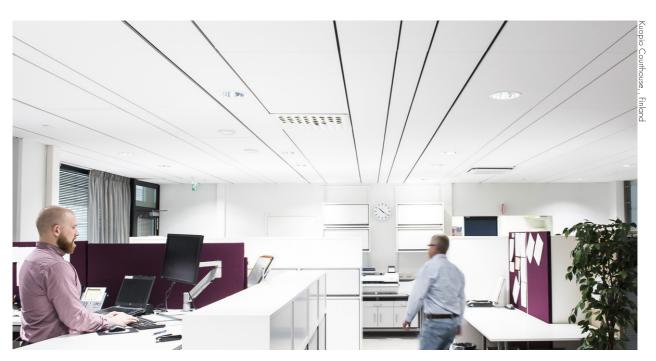


# Ecophon Focus™ Lp

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

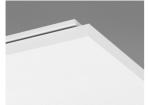


#### **SYSTEM RANGE**



Size, mm	600x150	600x300	600x600	1200×150	1200x300	1200x600	XL 1800x600
T24	•	•	•	•	•	•	•
Thickness	20	20	20	20	20	20	20
Inst. Diagr.	M391	M390, M391	M390, M391	M391	M390, M391	M390, M391	M392

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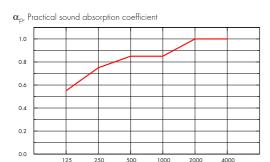
Focus Lp system Demounting of tile

#### Acoustic



#### **Sound Absorption:**

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



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

Frequency Hz

THK	o.d.s. mm		α <sub>p′</sub> Pr	actical soun	d absorption c	coefficient		$\alpha_{_{\mathrm{W}}}$	Sound absorption class
mm	O.G.3. IIIII	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	o.w	Sound absorption class
20	200	0.55	0.75	0.85	0.85	1.00	1.00	0.90	А

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

THK	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**







## Indoor Air Quality



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







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#### **Environmental Footprint**

	kg CO2 equiv/m²	Life-cycle stages A1 to C4 from EPD, in conformity with ISO 14025 / EN 15804
Focus Lp	4,66	- 14023 / EIN 13804



#### Circularity

Minimum post-consumer recycled content	57%
Recyclability	Fully recyclable



#### Fire safety

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



#### **Humidity Resistance**

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



#### Visual appearance

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



#### Cleanability

Daily dusting and vacuum cleaning. Weekly wet wiping.



#### Accessibility

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



#### Installation

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



#### System weight

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



### **Mechanical properties**

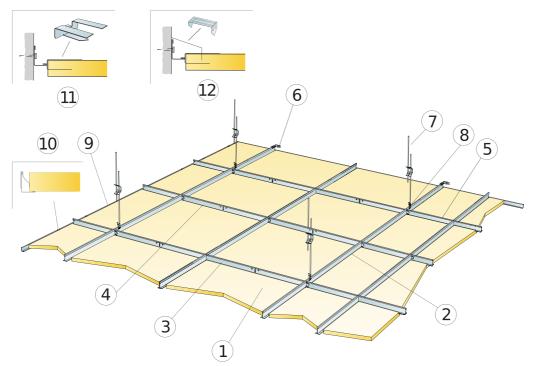
See table about Max live load and Min load bearing capacity and Functional demands, Mechanical properties at www.ecophon.com. For the Technical tiles installed according to M391 there is a load bearing capacity of 70 N for each Main runner per 1200 mm. This gives a total load bearing capacity of 140 N for a load evenly distributed on two Main runners.



#### CE

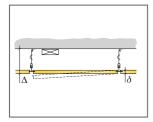
Ecophon ceiling systems are CE marked according to the European harmonized standard EN 13964:2014. CE marked construction products are covered by a Declaration of Performance (DOP) which enables customers and users to easily compare performance of products available on the European market.

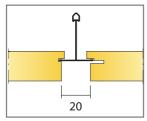
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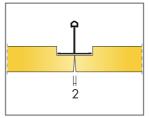
#### QUANTITY SPECIFICATION (EXCL. WASTAGE)

	Size, mm				
	600×300	600×600	1200×300	1200×600	
Focus Lp	5,6/m²	2,8/m²	2,8/m²	1,4/m²	
Connect T24 Main runner, installed at 1200 mm centres (max distance from wall 600 mm)	0,9m/m <sup>2</sup>	0,9m/m²	0,9m/m <sup>2</sup>	0,9m/m <sup>2</sup>	
Connect T24 Cross tee L=1200 mm	3,4m/m <sup>2</sup>	1,7m/m²	3,4m/m <sup>2</sup>	1,7m/m²	
Connect T24 Cross tee, L=600 mm	-	0,9m/m²	-	-	
Connect T24 Cross tee, L=300 mm	0,9m/m²	-	-	-	
Connect Wall Bracket for T-profiles	1/suspended row of Main rur	ner			
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	
Connect Hanger Clip (not to be used in swimming hall environments)	0,7/m²	0,7/m²	0,7/m²	0,7/m²	
Connect Angle trim, fixed at 300 mm centres	as required	as required	as required	as required	
Connect Wall spring	2 pcs/on every cut perimeter	tile with only 1 supporting edge			
Connect Support clip Dg20	2per perimeter tile, cut on the long side	2per perimeter tile, cut on the long side	3per perimeter tile, cut on the long side	3per perimeter tile, cut on the long side	
Connect Perimeter tile clip	1/300-400mm on any cut ed	ge			
$\Delta$ Min. overall depth of system: 115 mm					
$\delta$ Min. demounting depth: 20 mm					
For luminaire integration in panels use Connect Bridging		-		-	
	Connect T24 Main runner, installed at 1200 mm centres (max distance from wall 600 mm)  Connect T24 Cross tee L=1200 mm  Connect T24 Cross tee, L=600 mm  Connect T24 Cross tee, L=300 mm  Connect Wall Bracket for T-profiles  Connect Adjustable Hanger, installed at 1200 mm centres (max. distance from wall 600 mm)  Connect Hanger Clip (not to be used in swimming hall environments)  Connect Angle trim, fixed at 300 mm centres  Connect Wall spring  Connect Support clip Dg20  Connect Perimeter tile clip  A Min. overall depth of system: 115 mm  8 Min. demounting depth: 20 mm	Focus Lp  Connect T24 Main runner, installed at 1200 mm centres (max distance from wall 600 mm)  Connect T24 Cross tee L=1200 mm  3,4m/m²  Connect T24 Cross tee, L=600 mm  Connect T24 Cross tee, L=600 mm  Connect T24 Cross tee, L=300 mm  0,9m/m²  Connect Wall Bracket for T-profiles  1/suspended row of Main run contres (max. distance from wall 600 mm)  Connect Adjustable Hanger, installed at 1200 mm centres (max. distance from wall 600 mm)  Connect Hanger Clip (not to be used in swimming hall environments)  Connect Angle trim, fixed at 300 mm centres  Connect Wall spring  Connect Support clip Dg20  2per perimeter tile, cut on the long side  Connect Perimeter tile clip  1/300400mm on any cut ed  M Min. overall depth of system: 115 mm  M Min. demounting depth: 20 mm	Focus Lp         5,6/m²         2,8/m²           Connect T24 Moin runner, installed at 1200 mm centres (max distance from wall 600 mm)         0,9m/m²         0,9m/m²           Connect T24 Cross tee L=1200 mm         3,4m/m²         1,7m/m²           Connect T24 Cross tee, L=600 mm         0,9m/m²         0,9m/m²           Connect T24 Cross tee, L=300 mm         0,9m/m²         -           Connect Wall Bracket for T-profiles         1/suspended row of Main runner           Connect Adjustable Hanger, installed at 1200 mm centres (max. distance from wall 600 mm)         0,7/m²         0,7/m²           Connect Angle trim, fixed at 300 mm centres         as required         as required           Connect Wall spring         2 pcs/on every cut perimeter tile, with only 1 supporting edge           Connect Support clip Dg20         2per perimeter tile, cut on the long side         2per perimeter tile, cut on the long side           Connect Perimeter tile clip         1/300-400mm on any cut edge           Δ Min. overall depth of system: 115 mm         -         -           δ Min. demounting depth: 20 mm         -         -	Focus Lp	





Distance between Focus Lp tiles

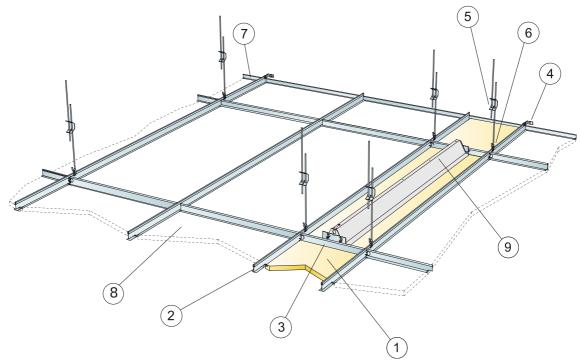


Non-supported edges meeting with space for cross-tee.

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

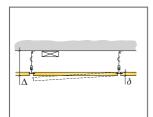
Live load/load bearing capacity

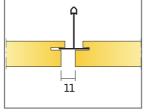
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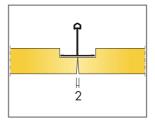
QUANTITY SPECIFICATION (EXCL. WASTAGE)

	Size, mm					
	600×150	600×300	600×600	1200×150	1200×300	1200×600
1 Focus Lp Technical tile	11,1/m²	5,6/m²	2,8/m²	5,6/m²	2,8/m²	1,4/m²
2 Connect T24 Main runner	6,7m/m²	3,35m/m <sup>2</sup>	1,7m/m²	6,7m/m²	3,35m/m <sup>2</sup>	1,7m/m²
3 Connect T24 Cross tee, L=150/300/600 mm	1,7m/m²	1,7m/m²	1,7m/m²	0,85m/m <sup>2</sup>	0,85m/m <sup>2</sup>	0,85m/m²
4 Connect Wall Bracket for T-profiles	1/suspended ro	w of Main runner				
5 Connect Adjustable hanger (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
Connect Angle trim, fixed at 300 mm centres	as required	as required	as required	as required	as required	as required
Focus Lp (adjacent ceiling)	-	-	-	-	-	-
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.	-	-	-	-	-	-
For integration with a continuous luminaire, width < 300 mm use Connect Spacebar connector, max height 75 mm	-	-	-	-	-	-





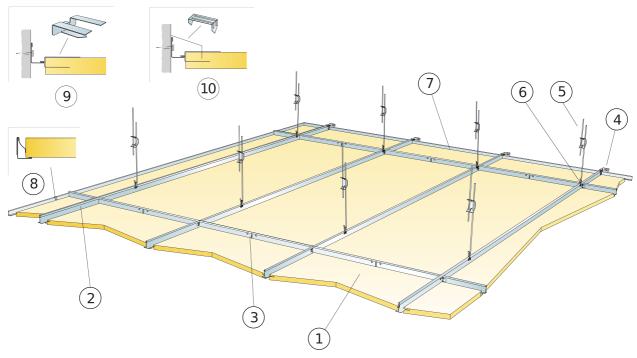
Distance between Focus Lp and Focus Lp Technical tile



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

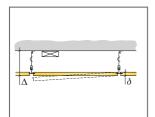
Size, mm	Max live load (N)	Min load bearing capacity (N)
600x150x20	50	160
600x300x20	50	160
600x600x20	50	160
1200x150x20	50	160
1200x300x20	50	160
1200x600x20	50	160

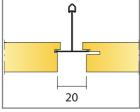
Live load/load bearing capacity

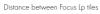


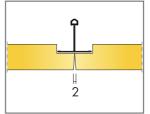
#### QUANTITY SPECIFICATION (EXCL. WASTAGE)

		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	

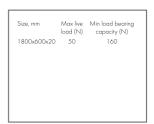








Non-supported edges meeting with space for cross-tee.



Live load/load bearing capacity