

Ecophon Focus™ A

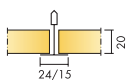
For applications where a robust suspended ceiling system is required. Ecophon Focus™ A has an exposed grid system. Each tile is easily demountable.

The systems consist of Ecophon Focus™ A tiles and Connect™ grid systems, with an approximate weight of 3 kg/m² (4 kg/m² with Ecophon Extra Bass). The tiles are manufactured from high density glass wool. The visible surface has an Akutex™ FT coating and the back of the tile is covered with glass tissue. The edges are primed. To improve absorption in the low frequency range, Ecophon Extra Bass can be installed on top of the suspended ceiling. The grid is manufactured from galvanized steel.

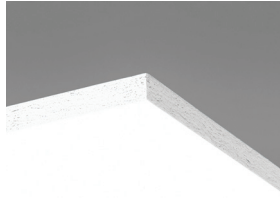


DSB Werkbedrijf, Nijmegen, Netherlands

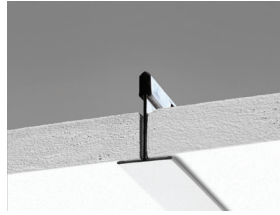
SYSTEM RANGE



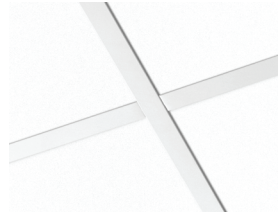
Size, mm	600x600	1200x600	1200x1200	XL 1600x600	XL 1800x600	XL 2000x600	XL 2400x600
T15	•	•	•				
T24	•	•	•	•	•	•	•
Thickness (THK)	20	20	20	20	20	20	20
Inst. Diag.	M01, M399	M01, M399	M01	M16, M46	M16, M46	M16, M46	M16, M46



Focus A tile



Section of Focus A system with Connect T24



Focus A system

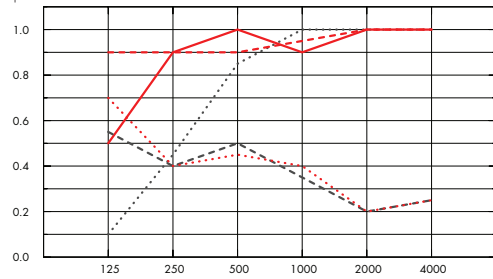


Acoustic

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.

α_p Practical sound absorption coefficient



Frequency Hz

... Focus A 20 mm, 50 mm o.d.s.

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

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

--- Focus A gamma 20 mm, 200 mm o.d.s.

... Focus A gamma 20 mm + Extra Bass 50 mm, 200 mm o.d.s.

o.d.s = overall depth of system

	THK mm	o.d.s. mm	α_p Practical sound absorption coefficient						α_w	Sound absorption class
			125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz		
	20	50	0.10	0.45	0.85	1.00	1.00	1.00	0.75	C
	20	200	0.50	0.90	1.00	0.90	1.00	1.00	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
+ Extra Bass,	70	200	0.93	0.93
gamma	20	200	0.35	0.36
gamma + Extra Bass	70	200	0.35	0.37
	20	400	0.85	0.88

THK mm	AC(1.5) Articulation Class, ASTM E1111, ASTM E1110	D_{ntw} Weighted normalized flanking level difference, ISO 10848-2	CAC dB Ceiling Attenuation Class, ASTM 1414, ASTM E413
20	190	20	21



Indoor Air Quality

Certificate / Label

Finnish M1

French VOC, A+





Environmental Footprint

Focus A, Kg CO₂ equiv/m²: 2,97

From EPD in conformity with ISO 14025 / EN 15804



Circularity

Fully recyclable.



Fire safety

Country	Standard	Class
Europe	EN 13501-1	A2-s1,d0

The glass wool core of the tiles is tested and classified as non-combustible according to EN ISO 1182.



Humidity Resistance

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



Visual appearance

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



Cleanability

Daily dusting and vacuum cleaning. Weekly wet wiping.



Accessibility

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



Installation

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



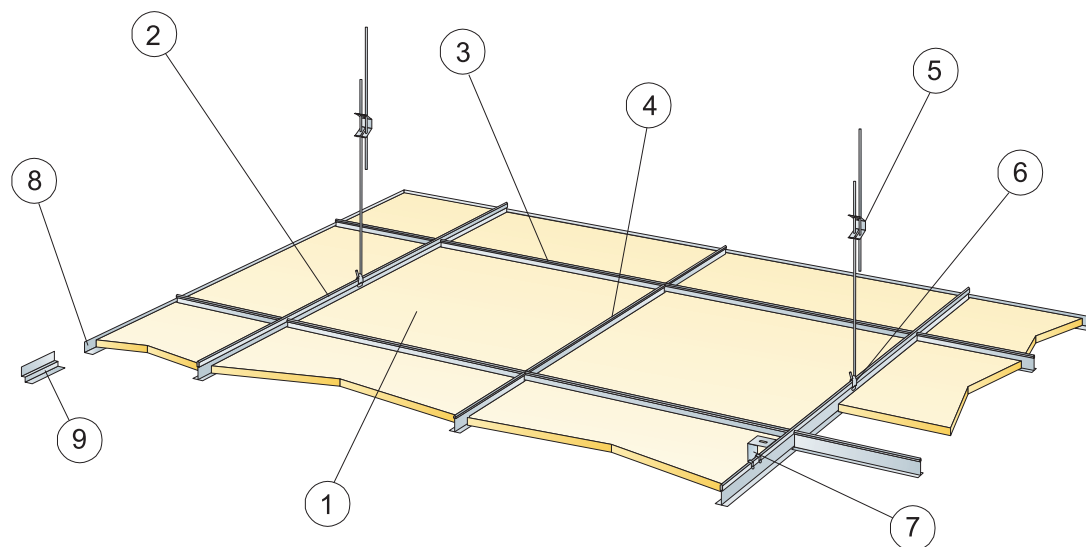
Mechanical properties

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



CE

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

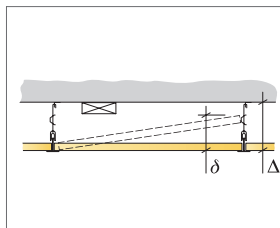


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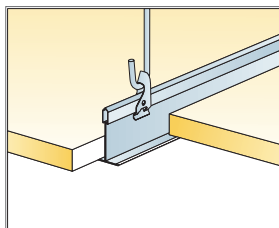
QUANTITY SPECIFICATION (EXCL. WASTAGE)

		Size, mm		
		600x600	1200x600	1200x1200
1	Focus A	2,8/m ²	1,4/m ²	0,7/m ²
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/m ²	0,9m/m ²	0,9m/m ²
3	Connect T24 or T15 Cross tee, L=1200 mm, installed at 600 mm centres	1,7m/m ²	1,7m/m ²	0,9m/m ²
4	Connect T24 or T15 Cross tee, L=600 mm	0,9m/m ²	-	-
5	Connect Adjustable hanger, installed at 1200 mm centres (max. distance from wall 600 mm)	0,7/m ²	0,7/m ²	0,7/m ²
6	Connect Hanger Clip (not to be used in swimming hall environments)	0,7/m ²	0,7/m ²	0,7/m ²
7	For direct installation: Connect Direct Bracket, installed at 1200 mm centres	0,7/m ²	0,7/m ²	0,7/m ²
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
Δ Min. overall depth of system, with adjustable hanger: 100 mm, with direct bracket: 50 mm		-	-	-
δ Min. demounting depth: 120 mm (130 mm with 1200x1200)		-	-	-
For luminaire integration in panels use Connect Bridging				

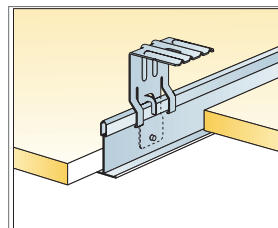
When using panels in format 1200x1200 mm and XL-format in combination with T15 grid, secure grid with wall brackets



See Quantity specification



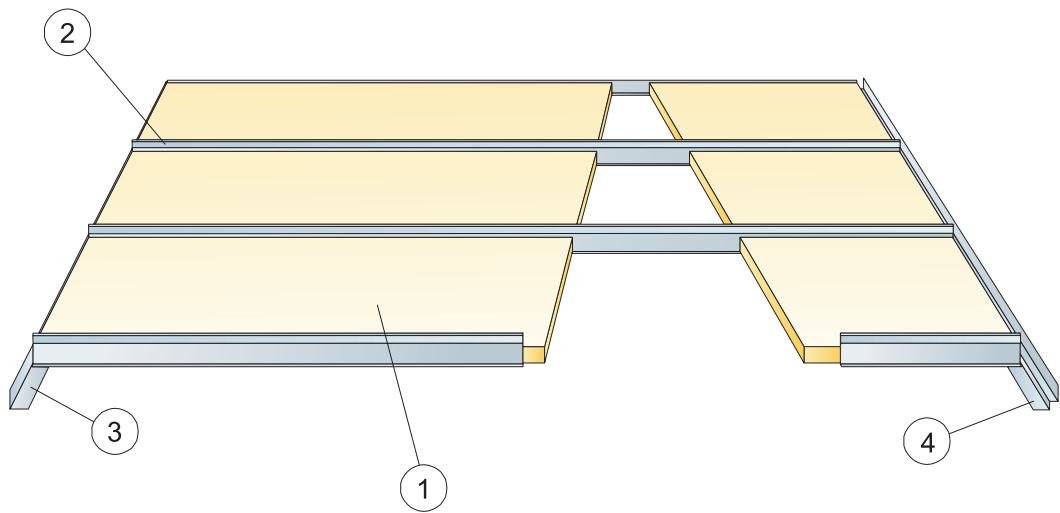
Suspension with adjustable hanger and clip



Suspension with direct bracket

Size, mm	Max live load [N]	Min load bearing capacity [N]
600x600	50	160
1200x600	50	160
1200x1200	50	160

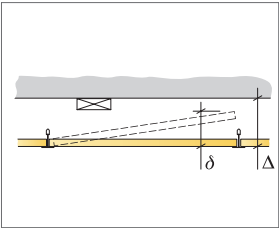
Live load/load bearing capacity



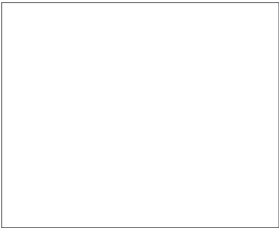
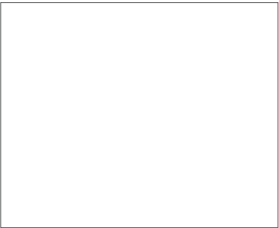
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QUANTITY SPECIFICATION (EXCL. WASTAGE)

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

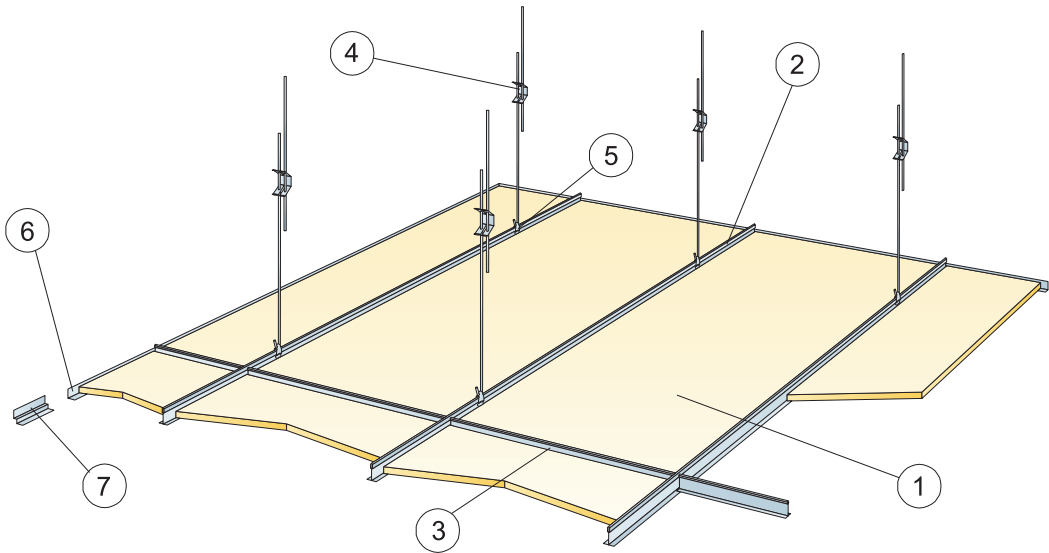


See Quantity specification



Size, mm	Max live load [N]	Min load bearing capacity [N]
1600x600	40	-
1800x600	20	-
2000x600	10	-
2400x600	0	-

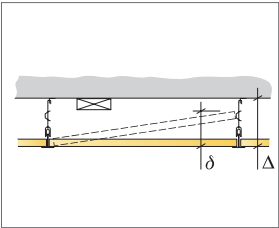
Live load/load bearing capacity



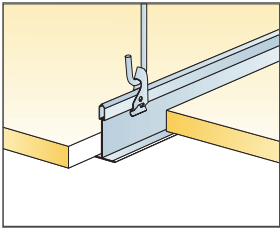
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QUANTITY SPECIFICATION (EXCL. WASTAGE)

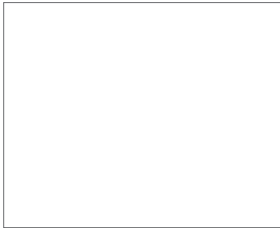
		Size, mm			
		1600x600	1800x600	2000x600	2400x600
1	Focus A	1,05/m²	0,95/m²	0,85/m²	0,7/m²
2	Connect T24 Main runner, installed at 600 mm centres	1,7m/m²	1,7m/m²	1,7m/m²	1,7m/m²
3	Connect T24 Cross tee, L=600 mm	0,65m/m²	0,6m/m²	0,5m/m²	0,45m/m²
4	Connect Adjustable hanger, installed at 1500 mm centres (max. distance from wall 450 mm)	1,1/m²	1,1/m²	1,1/m²	1,1/m²
5	Connect Hanger clip	1,1/m²	1,1/m²	1,1/m²	1,1/m²
6	Connect Angle trim, fixed at 300 mm centres	as required	as required	as required	as required
7	Connect Shadow-line trim, fixed at 300 mm centres	as required	as required	as required	as required
Δ Min. overall depth of system: 100 mm		-	-	-	-
δ Min. demounting depth: 100 mm					



See Quantity specification



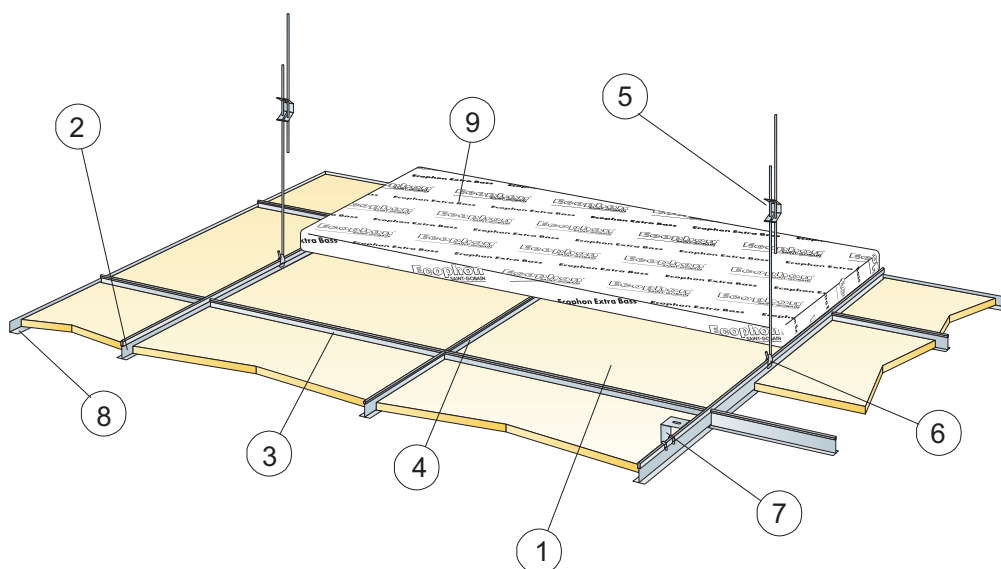
Suspension with adjustable hanger and clip



Size, mm	Max live load [N]	Min load bearing capacity [N]
1600x600	50	160
1800x600	50	160
2000x600	50	160
2400x600	50	160

Live load/load bearing capacity

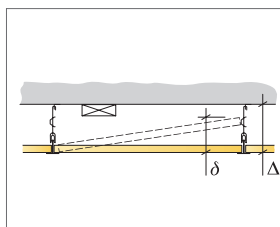
INSTALLATION DIAGRAM (M399) FOR ECOPHON FOCUS A



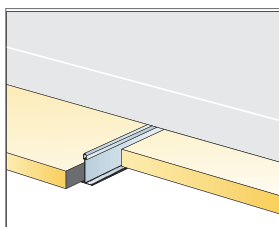
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QUANTITY SPECIFICATION (EXCL. WASTAGE)

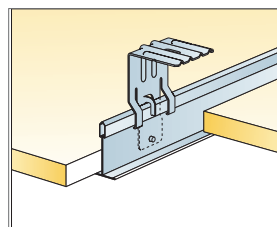
		Size, mm	
		600x600	1200x600
1	Focus A	2,8/m ²	1,4/m ²
2	Connect T24 Main runner black, installed at 1200 mm centres (max. distance from wall 600 mm, can be extended up to 1200 mm if no live load between Main runner and wall).	0,9m/m ²	0,9m/m ²
3	Connect T24 Cross tee black, L=1200 mm, installed at 600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



See Quantity specification



Installation with Extra Bass



Suspension with adjustable hanger and clip

Size, mm	Max live load [N]	Min load bearing capacity [N]
600x600	50	160
1200x600	50	160

Live load/load bearing capacity