

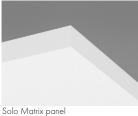
Ecophon Solo™ Matrix

The system provides quick and easy installation with highest accuracy and a vast range of design possibilities. Each panel has a built in hatch function, and can easily be demounted. Suitable for larger areas where high coverage is required but a wall to wall solution is not possible.

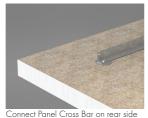


SYSTEM RANGE

40	Size, mm	600x1040	600x1200	600x2400	1200x1040	1200x1200	2400x1040	2400x1200
40	T24	•	•	•	•	•	•	•
	Thickness (THK)	40	40	40	40	40	40	40
	Inst. Diagr.	M502	M501, M503	M501, M503	M502	M501	M502	M501



 ~ 100







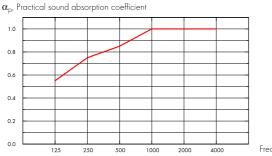
el

Acoustic

The first diagram refers to clusters >10 m². The second diagram to a cluster of four panels (1200x1040 mm) in a row with a distance of 40 mm (M502). If the clusters are arranged with distances between the clusters <0,5 meters, the Aeq per cluster will be slightly reduced.

Sound Absorption:

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



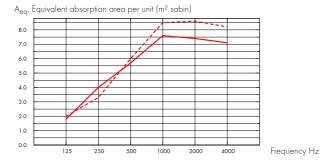
of Solo Matrix panel

o.d.s = overall depth of system

Frequency Hz

Solo Matrix 40 mm (M502), 300 mm o.d.s.
Solo Matrix 40 mm (M502), 600 mm o.d.s.
d a = quartell depth of system

o.d.s = overall depth of system



 THK mm
 o.d.s. mm
 Image: Imag

THK	o d c mm		A _{eq} ,	. Equivalent abso	rption area per unit	(m² sabin)	
mm	o.d.s. mm	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz
40	300	1.8	4.0	5.7	7.6	7.4	7.1
40	600	2.0	3.3	6.0	8.5	8.6	8.2
40	1000	2.1	3.5	6.4	9.1	9.2	9.0



Indoor Air Quality

Certificate / Label		EMISSIONS DANS L'AIR INTÉRIEUR
Eurofins Indoor Air Comfort®	IAC	
French VOC	A	
Finnish M1	•	

[–] Solo Matrix 40 mm, 300 mm o.d.s.

Environmental	Footprint
---------------	-----------

		kg CO2 equiv/m²	Life-cycle stages A1 to C4 from EPD, in conformity with ISO 14025 / EN 15804
-	Solo Matrix	7,52	14023 / LIN 13004



Circularity

Minimum post-consumer recycled content	62%
Recyclability	Fully recyclable



Fire safety

Country		Class	The glass wool core of the tiles is tested and classified as
Europe	EN 13501-1	A2-s1,d0	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 \$ 0500-N, 85% light reflectance. Gloss < 1.



Cleanability

Daily dusting and vacuum cleaning. Weekly wet wiping.



Accessibility

Each panel is individually demountable from below. Panels are equipped with hatch function.



Installation

For design possibilities including installation direction and integrations, see installation guides, installation diagrams and drawing aid. For informatin regarding minimum overall depth of system see quantity specification.



System weight

The weight of the system (including suspension grid) should be approximately 4 kg/m^2 .



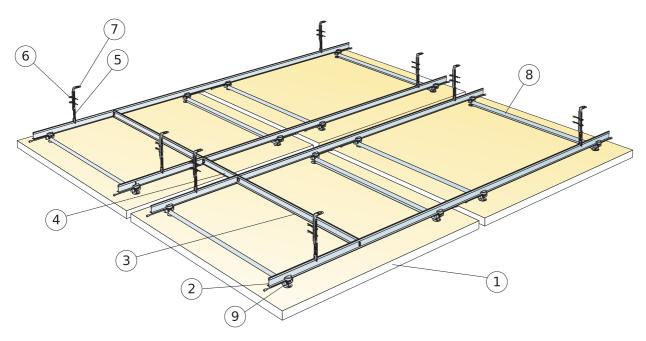
Mechanical properties

The panels can take small loads with largest aperture diameter of 100 mm. The load is restricted to maximum 250g between two Panel cross bars. For heavier loads see Installation guide.



CE

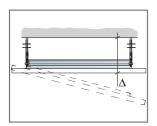
Ecophon ceiling systems are CE marked according to the European harmonized standard EN13964:2014. CE marked construction products are covered by a Declaration of Performance (DOP) which enables customers and users to easily compare performance of products available on the European market.



© Ecophon Group

QUANTITY SPECIFICATION (EXCL. WASTAGE)

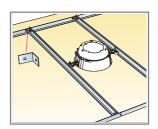
		Size, mm			
		600×1200	600x2400	1200×1200	2400x1200
1 Solo Matrix		0,72m² / tile	1,44m² / tile	1,44m² / tile	2,88m² / tile
2 Connect T24 Main runne	r, installed with spacing 900 mm and 300 mm	1,67m/m²	1,67m/m²	1,67m/m²	1,67m/m²
3 Connect T24 Cross tee, I	=900 mm, installed with spacing 1800 mm	0,42m/m²	0,42m/m²	0,42m/m²	0,42m/m²
4 Connect T24 Cross tee, I	=300 mm, installed with spacing 2400 mm	0,11m/m²	0,11m/m²	0,11m/m²	0,11m/m²
Connect Nonius Hanger	Lower, installed with spacing 1800 mm	0,95/m²	0,95/m²	0,95/m²	0,95/m²
o Connect Split pin (2/han	ger)	1,9/m²	1,9/m²	1,9/m²	1,9/m²
Connect Nonius hanger	upper, installed with spacing 1800 mm	0,95/m²	0,95/m²	0,95/m²	0,95/m²
B Connect Panel cross bar		2/panel	4/panel	2/panel	3/panel
Connect Panel connector		4/panel	8/panel	4/panel	6/panel
Δ Min. overall depth of s	ystem: 305 mm			-	
Quantity specification ba	sed on 40 mm gap between all panels				
Stabilization could be rea	quired, see installation guide for more details				



See Quantity Specification

Modu l ar size	Exact size
600x1200	560x1160
600x2400	560x2360
1200x1200	1160x116
2400x1200	2360x116

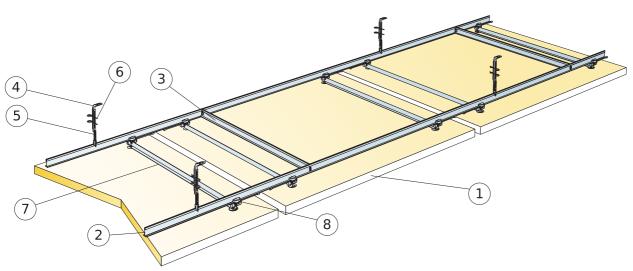
The left column shows modular sizes and the right exact panel sizes.



For heavier integrations use Connect Cross Tee and Connect Angle Bracket.

Size, mm	Max live load (N)	Min load bearing capacity (N)
600x1200x40	5	160
600x2400x40	5	160
1200x1200x40	5	160
2400x1200x40	5	160

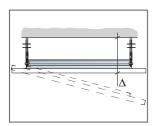
Live load/load bearing capacity



${}^{\textcircled{C}}\mathsf{Ecophon}\,\mathsf{Group}$

QUANTITY SPECIFICATION (EXCL. WASTAGE)

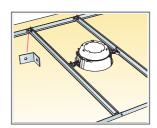
	Size, mm		
	600×1040	1200×1040	2400×1040
Ecophon Master Matrix in rows	0,63m²/panel	1,25m²/panel	2,50m²/panel
Connect T24 Main runner, installed with spacing 900 mm	1,93m/m²	1,93m/m²	1,93m/m²
Connect T24 Cross tee, L=900 mm, installed with spacing 1800 mm	0,49m/m²	0,49m/m²	0,49m/m²
Connect Nonius hanger upper, installed with spacing 1800 mm	1,07/m²	1,07/m²	1,07/m²
Connect Nonius Hanger Lower, installed with spacing 1800 mm	1,07/m²	1,07/m²	1,07/m²
Connect Split pin (2/hanger)	2,14/m²	2,14/m²	2,14/m²
Connect Panel cross bar	2/panel	2/panel	3/panel
Connect Panel connector	4/panel	4/panel	6/panel
Δ Min. overall depth of system: 305 mm		-	
Quantity specification based on 40 mm gap between panels in installation direction			
Stabilization could be required, see installation guide for more details			



See Quantity Specification

Exact size
560x1000
1160×100
2360x100

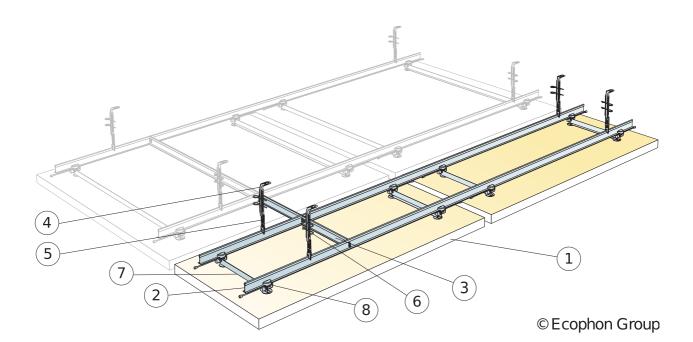
The left column shows modular sizes and the right exact panel sizes.



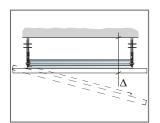
For heavier integrations use Connect Cross Tee and Connect Angle Bracket.

Size, mm	Max live load (N)	Min load bearing capacity (N)
600x1040x40	5	160
1200x1040x40	5	160
2400x1040x40	5	160

Live load/load bearing capacity



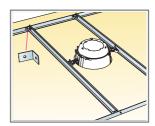
	Size, mm	Size, mm	
	600x1200	600×2400	
Solo Matrix	0,72m²/panel	1,44m²/panel	
Connect T24 Main runner, installed with spacing 900 mm and 300 mm	1,67m/m²	1,67m/m²	
Connect T24 Cross tee, L=300 mm, installed with spacing 2400 mm	0,11m/m²	0,11m/m²	
Connect Nonius hanger upper, installed with spacing 1800 mm	0,95/m²	0,95/m²	
Connect Nonius Hanger Lower, installed with spacing 1800 mm	0,95/m²	0,95/m²	
Connect Split pin (2/hanger)	1,9/m²	1,9/m²	
Connect Panel cross bar	2/panel	4/panel	
Connect Panel connector	4/panel	8/panel	
Δ Min. overall depth of system: 305 mm			
Quantity specification based on 40 mm gap between all panels			
Stabilization could be required, see installation guide for more details			



See Quantity Specification

Modu l ar size	Exact size
600x1200	560x1160
600x2400	560x2360
1200x1200	1160x1160
2400x1200	2360x1160

The left column shows modular sizes and the right exact panel sizes.



For heavier integrations use Connect Cross Tee and Connect Angle Bracket.

Size, mm	Max live load (N)	
600x1200x40	5	160
600x2400x40	5	160

Live load/load bearing capacity