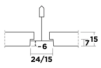
ECOPHON ADVANTAGE™ E R225

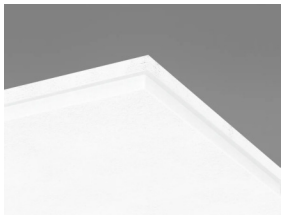
Ecophon Advantage™ E has a recessed visible grid and a tegular edge design, creating a ceiling with a shadow effect to accentuate each tile and partially conceal the grid system. For applications requiring an easy-install suspended ceiling and meets essential functional demands.

Ecophon Advantage™ E R225

SYSTEM RANGE



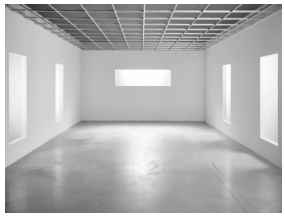
Size, mm	600x600	1200x600
Connect T15	•	•
Connect T24	•	•
Thickness (THK)	15	15
Inst. Diagr.	M122, M272	M122



Advantage E tile

Section of Advantage E system with Connect T24

Advantage E system with Connect T24



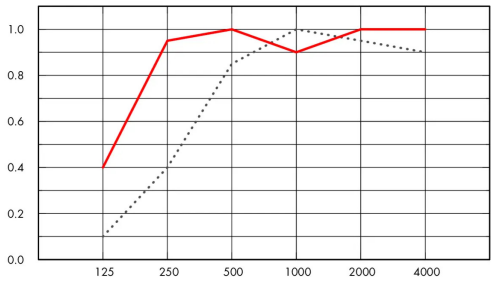
TYPE OF APPLICATION

- Healthcare

ACOUSTICS

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



···· Advantage E 15 mm, 60 mm o.d.s.
— Advantage E 15 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		
15	60	0.10	0.40	0.85	1.00	0.95	0.90	0.70	C
15	200	0.40	0.95	1.00	0.90	1.00	1.00	1.00	A

THK mm	o.d.s. mm	NRC	SAA
15	60	0.80	0.80
15	200	0.95	0.95
15	400	0.85	0.87

INDOOR AIR QUALITY

Certificate / Label	
Eurofins Indoor Air Comfort®	IAC Gold
French VOC	A+

CARBON FOOTPRINT

Life-cycle stages A1 to C4 from EPD, in conformity with ISO 14025 / EN 15804+A2

	kg CO_2 equiv/m^2
Advantage E	3,07
Advantage E CarbonLow	2,14

CIRCULARITY

Minimum post-consumer recycled content	47%
Recyclability	Fully recyclable

FIRE SAFETY

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

Country	Fire standard	Class
Europe	EN 13501-1	A2-s1,d0

HUMIDITY RESISTANCE

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

VISUAL APPEARANCE

White 500. Nearest NCS colour code; NCS S 0500-N. 83 % light reflectance. (The tiles need to be installed in accordance with the arrows on the back of the tile in order to get optimal visual appearance).

CLEANABILITY

Weekly dusting and vacuum cleaning.

ACCESSIBILITY

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

INSTALLATION

Installed according to installation diagrams, installation guides and drawing aid. (The tiles to be installed according to the arrows on the back of the tile.)

PACKAGING INFORMATION

Information is indicative and subject to change.

	Edge	Panels / crt	m^2 / crt
600x600x15	E	26	9.36
1200x600x15	E	16	11.52

SYSTEM WEIGHT

Weight information is indicative and subject to variation.

	kg/m^2
Advantage E	1,3
Advantage E + Connect grid system	2,3

MECHANICAL PROPERTIES

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

CE

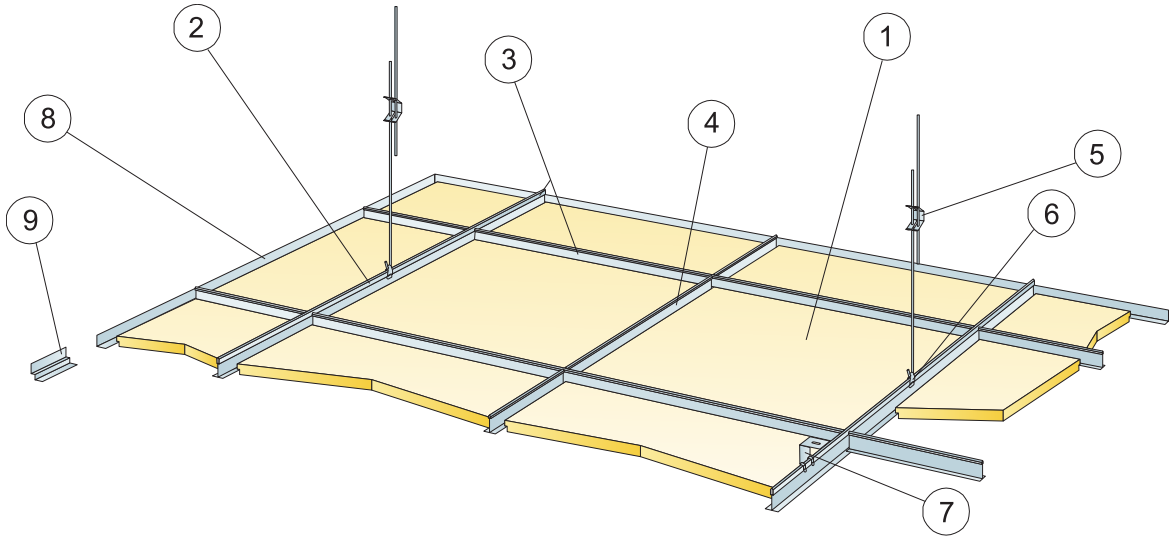
Ecophon ceiling systems are CE marked according to the European harmonized standard EN13964:2014. CE marked construction products are covered by a Declaration of Performance (DOP) which enables customers and users to easily compare performance of products available on the European market.

COLOURS AND DESIGN

Advantage

White 500

Suspended ceiling



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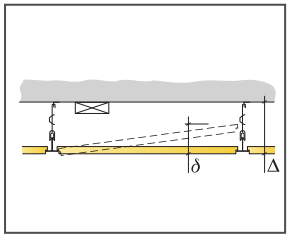
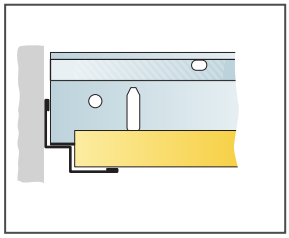
Installation diagram (M122) for Ecophon Advantage E

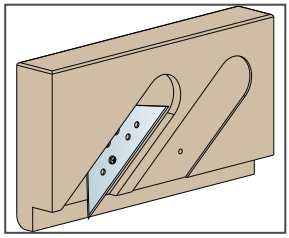
Quantity specification (excl. wastage)

		Size, mm	
		600x600	1200x600
1	Advantage E	2,8/m²	1,4/m²
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/m²	0,9m/m²
3	Connect T24 or T15 Cross tee, L=1200 mm, installed at 600 mm centres	1,7m/m²	1,7m/m²
4	Connect T24 or T15 Cross tee, L=600 mm	0,9m/m²	-
5	Connect Adjustable Hanger, installed at 1200 mm centres (max. distance from wall 600 mm)	0,7/m²	0,7/m²
6	Connect Hanger Clip (not to be used in swimming hall environments)	0,7/m²	0,7/m²
7	For direct installation: Connect Direct Bracket, installed at 1200 mm centres	0,7/m²	0,7/m²
8	Connect Angle Trim, fixed at 300 mm centres	as required	as required
9	Connect Shadow-line Trim, fixed at 300 mm centres	as required	as required
	Δ Min. overall depth of system, with adjustable hanger: 110 mm, with direct bracket: 60 mm		
	δ Min. demounting depth: T15: 110 mm, T24: 90 mm		
	For luminaire integration in panels use Connect Bridging		





Straight cut, panel resting on shadow-line trim.

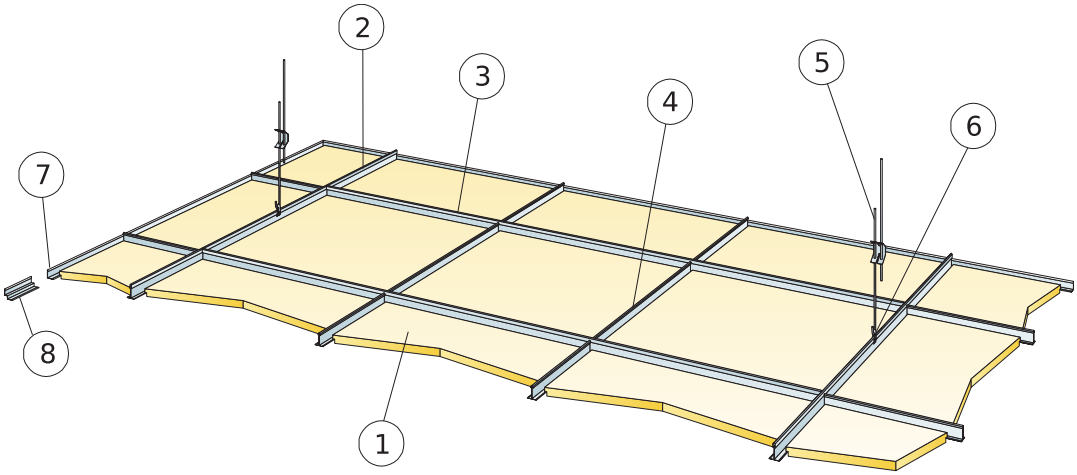


Cutting tool E

Size, mm	Max live load (N)	Min load bearing capacity (N)
600x600x15	50	160
1200x600x15	50	160

Live load/load bearing capacity

Suspended ceiling



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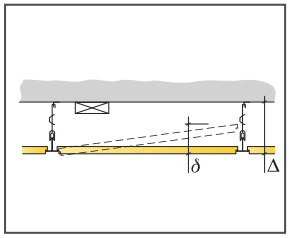
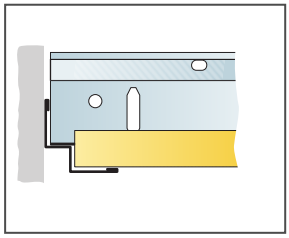
Installation diagram (M272) for Ecophon Advantage E, Connect T24 Main runner installed at 1800 mm centres

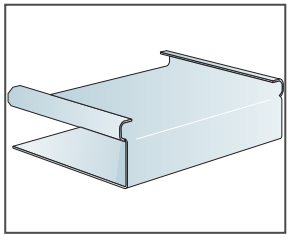
Quantity specification (excl. wastage)

		Size, mm
		600x600
1	Advantage E	2,8/m²
2	Connect T24 Main runner, installed at 1800 mm centres (max. distance from wall 600 mm, can be extended up to 1200 mm if no live load between Main runner and wall).	0,56m/m²
3	Connect T24 Cross tee, L=1800 mm	1,7m/m²
4	Connect T24 Cross tee, L=600 mm	1,1m/m²
5	Connect Adjustable hanger, installed at 1200 mm centres (max. distance from wall 600 mm)	0,46/m²
6	Connect Hanger clip	0,46/m²
7	Connect Angle trim, fixed at 300 mm centres	as required
8	Alt. Connect Shadow-line Trim, fixed c300	as required
	Δ Min. overall depth of system, with adjustable hanger: 100 mm, with direct bracket: 50 mm	
	δ Min. demounting depth: 120 mm	
	For luminaire integration in panels use Connect Bridging	





Straight cut, panel resting on shadow-line trim.



Connect E-plug

Size, mm	Max live load (N)	Min load bearing capacity (N)
600x600x15	20	160

Live load/load bearing capacity