# Ecophon Advantage™ E

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.



# SYSTEM RANGE



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

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Section of Advantage E system with



Advantage E system with Connect T24

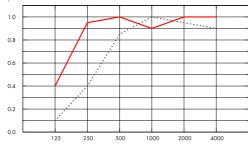
#### **Acoustic**



## **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.

#### $lpha_{\scriptscriptstyle D}$ , Practical sound absorption coefficient



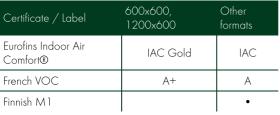
- ···· Advantage E 15 mm, 60 mm o.d.s.
- Advantage E 15 mm, 200 mm o.d.s. o.d.s = overall depth of system

Froguency	$\vdash$	4

THK	o.d.s. mm		α <sub>p′</sub> Pr	actical sound	d absorption c	coefficient		$\alpha_{_{\scriptscriptstyle{ m W}}}$	Sound absorption class
mm	0.u.s. IIIIII	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	o. <sub>w</sub>	Sound absorption class
15	60	0.10	0.40	0.85	1.00	0.95	0.90	0.70	С
15	200	0.40	0.95	1.00	0.90	1.00	1.00	1.00	А

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**









## **Environmental Footprint**



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



#### Circularity

Minimum post-consumer recycled content	47%
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 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.)



#### System weight

The weight of the system (including suspension grid) should be approximately  $2.5\ kg/m^2$ .



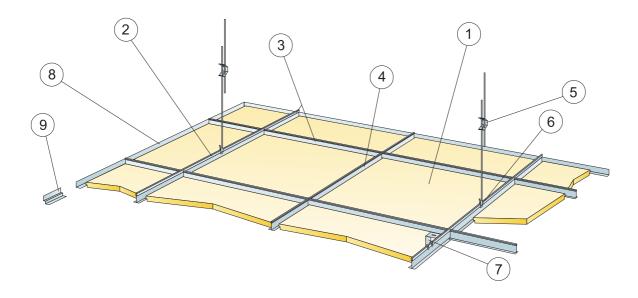
#### **Mechanical properties**

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



#### CE

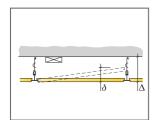
Ecophon ceiling systems are CE marked according to the European harmonized standard EN 13964:2014. CE marked construction products are covered by a Declaration of Performance (DOP) which enables customers and users to easily compare performance of products available on the European market.



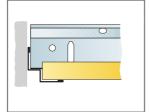
# © Ecophon Group

# QUANTITY SPECIFICATION (EXCL. WASTAGE)

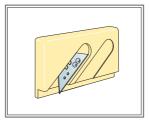
	Size, mm	Size, mm	
	600×600	1200×600	
Advantage E	2,8/m²	1,4/m²	
2 Connect T24 or T15 Main runner, installed at 1200 mm centres (max. distance from wall 600 mm, can be extended up to 1200 mm if no live load runner and wall).	between Main0,9m/m²	0,9m/m²	
Connect T24 or T15 Cross tee, L=1200 mm, installed at 600 mm centres	1,7m/m²	1,7m/m²	
Connect T24 or T15 Cross tee, L=600 mm	0,9m/m²	-	
Connect Adjustable Hanger, installed at 1200 mm centres (max. distance from wall 600 mm)	0,7/m²	0,7/m²	
Connect Hanger Clip (not to be used in swimming hall environments)	0,7/m²	0,7/m²	
For direct installation: Connect Direct Bracket, installed at 1200 mm centres	0,7/m²	0,7/m²	
3 Connect Angle Trim, fixed at 300 mm centres	as required	as required	
Connect Shadow-line Trim, fixed at 300 mm centres	as required	as required	
$\Delta$ Min. overall depth of system, with adjustable hanger: 110 mm, with direct bracket: 60 mm		-	
$\delta$ Min. demounting depth: T15: 110 mm, T24: 90 mm		-	
For luminaire integration in panels use Connect Bridging	-		







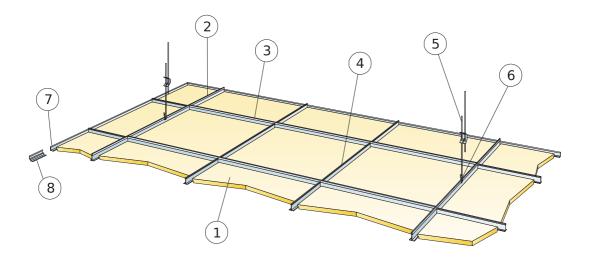
Straight cut, panel resting on shadow-line trim.



Cutting tool E

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

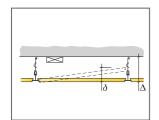
Live load/load bearing capacity



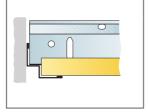
# © Ecophon Group

# QUANTITY SPECIFICATION (EXCL. WASTAGE)

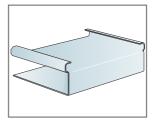
Size, mm	Size, mm	
600x600	1200×600	
2,8/m²	-	
lain runner 0,56m/m²	-	
1,7m/m²	-	
1,1m/m²	-	
0,46/m²	-	
0,46/m²	-	
as required	as required	
as required	as required	
-	-	
-	-	
-	-	
	600x600  2,8/m²  ain runner 0,56m/m²  1,7m/m²  1,1m/m²  0,46/m²  0,46/m²  as required  as required	







Straight cut, panel resting on shadow-line trim.



Connect E-plug

Size, mm	Max live load (N)	capacity (N)
600x600x15	20	160
1200x600x15	-	-

Live load/load bearing capacity