

Ecophon Gedina™ E

For applications requiring a standard ceiling which is easy to install and demount, but where strict functional requirements are needed. Ecophon Gedina™ E has a recessed visible grid and a tegular edge design, creating a ceiling with a shadow effect that accentuates each tile and partially conceals the grid system. The visible surface of each tile is 7 mm below the grid. Each tile is easily demountable. Note that installation according to installation diagram M121 contributes to a higher live load capacity compared to M270.

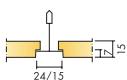
The system consists of Ecophon Gedina™ E tiles and Connect™ grid systems, with an approximate weight of 2,5 kg/m². The tiles are manufactured from high density glass

wool. The visible surface has an Akutex™ T coating and the back of the tile is covered with glass tissue. The edges are painted. The grid is manufactured from galvanized steel. For best performance and system quality, use Connect™ grid and accessories.



Sandwell Council House, Sandwell, United Kingdom

SYSTEM RANGE



Size, mm	600x600	1200x600	1200x1200
T15	•	•	•
T24	•	•	•
Thickness (THK)	15	15	15
Inst. Diag.	M121, M270, M401	M121, M401	M121



Gedina E tile



Section of Gedina E system



Gedina E system

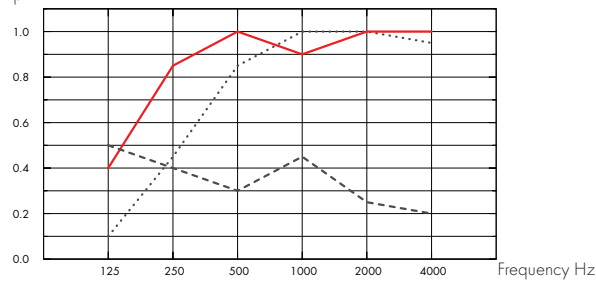


Acoustic

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



... Gedina E 15 mm, 60 mm o.d.s.

— Gedina E 15 mm, 200 mm o.d.s.

--- Gedina E/gamma 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	0.45	0.85	1.00	1.00	0.95	0.75	C
-	15	200	0.40	0.85	1.00	0.90	1.00	1.00	1.00	A
gamma	15	200	0.50	0.40	0.30	0.45	0.25	0.20	0.30	D

	THK mm	o.d.s. mm	NRC	SAA
-	15	60	0.85	0.86
-	15	400	0.85	0.83

THK mm	AC(1.5) Articulation Class, ASTM E1111, ASTM E1110	D_{nfw} Weighted normalized flanking level difference, ISO 10848-2	CAC dB Ceiling Attenuation Class, ASTM 1414, ASTM E413
15	190	19	19



Indoor Air Quality

Certificate / Label

Finnish M1

French VOC, A+



Environmental Footprint

Gedina E, Kg CO₂ equiv/m²: 2,73

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 500, nearest NCS colour sample S 0500-N, 84% light reflectance.



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.



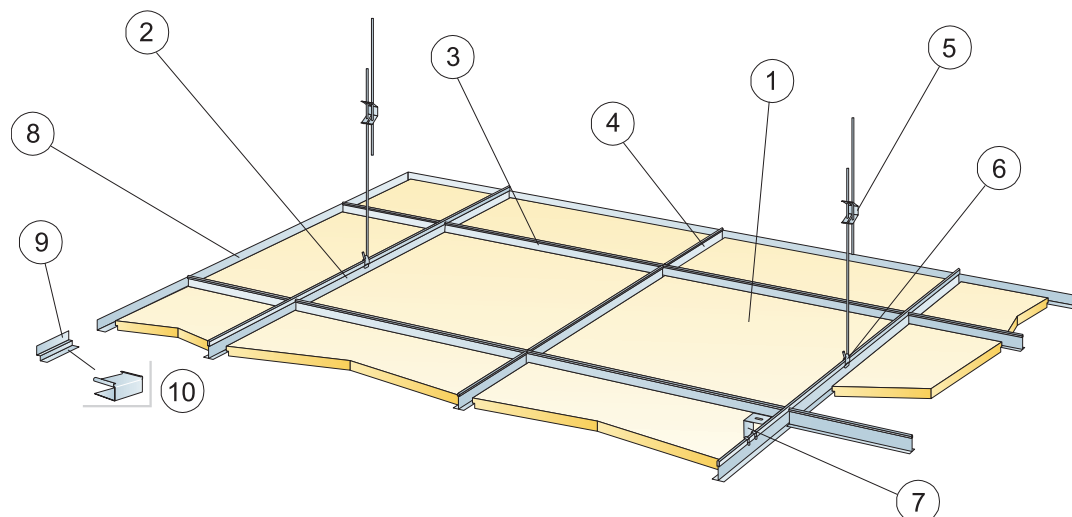
Mechanical properties

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.

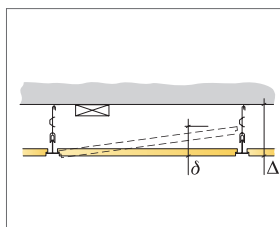


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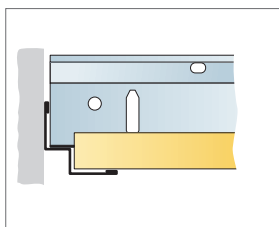
QUANTITY SPECIFICATION (EXCL. WASTAGE)

		Size, mm		
		600x600	1200x600	1200x1200
1	Gedina E	2,8/m ²	1,4/m ²	0,7/m ²
2	Connect 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 Cross Tee, L=1200 mm, installed at 600 mm centres	1,7m/m ²	1,7m/m ²	0,7m/m ²
4	Connect T24 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
10	Connect E-plug (for Connect Shadow-line Trim)	as required	as required	as required
Δ Min. overall depth of system, with adjustable hanger: 110 mm, with direct bracket: 60 mm		-	-	-
δ Min. demounting depth: 120 mm (130 mm with 1200x1200)		-	-	-

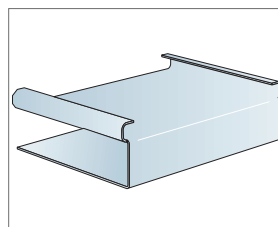
For luminaire integration in panels use Connect Bridging



See Quantity specification



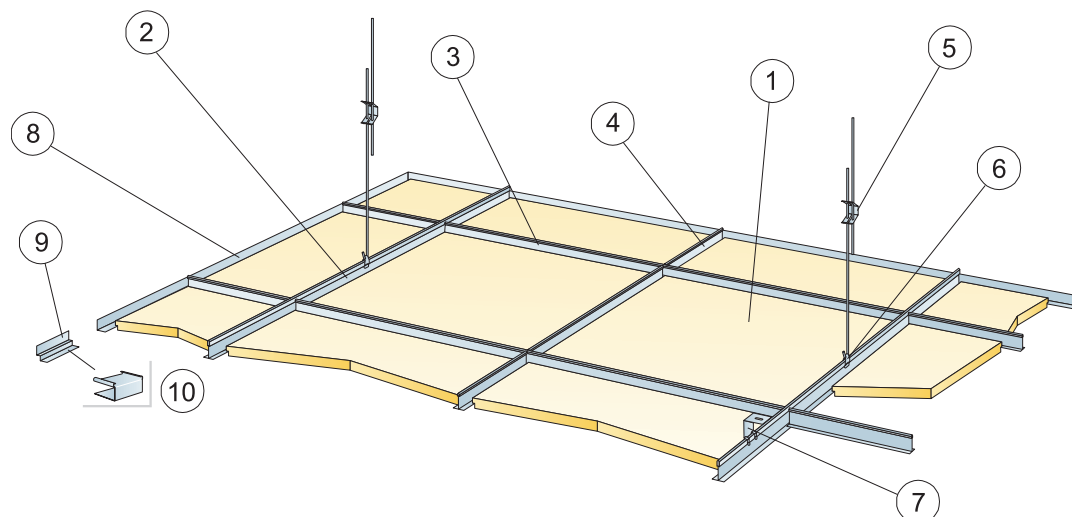
Straight cut, panel resting on shadow-line trim.



Connect E-plug

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

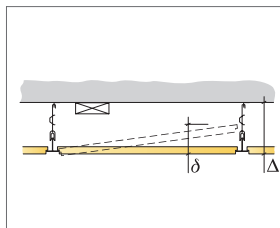


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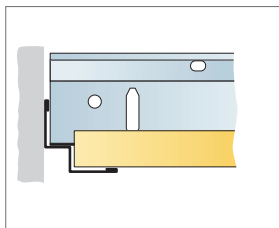
QUANTITY SPECIFICATION (EXCL. WASTAGE)

		Size, mm	
		600x600	1200x600
1	Gedina E T15	2,8/m ²	1,4/m ²
2	Connect 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
3	Connect T15 Cross tee, L=1200 mm, installed at 600 mm centres	1,7m/m ²	1,7m/m ²
4	Connect 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
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, 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: 120 mm		-	-

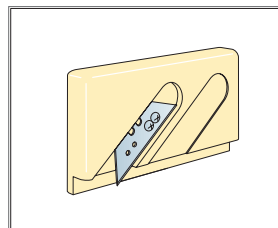
For luminaire integration in panels use Connect Bridging



See Quantity specification



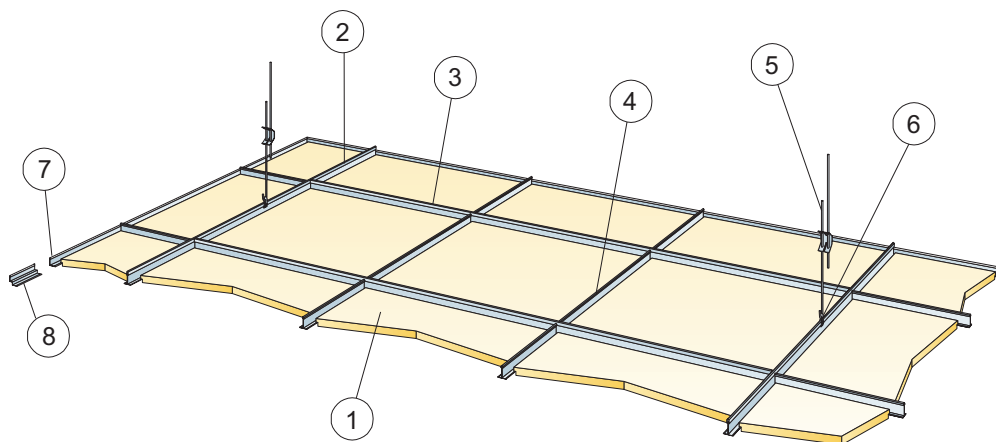
Straight cut, panel resting on shadow-line trim.



Cutting tool E

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

Live load/load bearing capacity

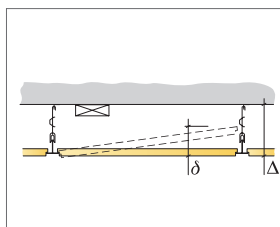


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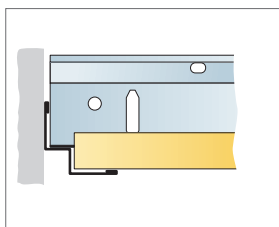
QUANTITY SPECIFICATION (EXCL. WASTAGE)

		Size, mm
		600x600
1	Gedina E	2,8/m ²
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/m ²
3	Connect T24 Cross tee, L=1800 mm	1,7m/m ²
4	Connect T24 Cross tee, L=600 mm	1,1m/m ²
5	Connect Adjustable hanger, installed at 1200 mm centres (max. distance from wall 600 mm)	0,46/m ²
6	Connect Hanger clip	0,46/m ²
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: 110 mm, with direct bracket: 60 mm		-
δ Min. demounting depth: 120 mm		-

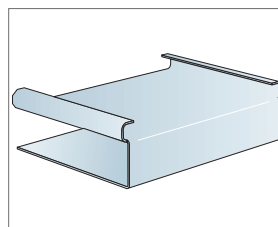
For luminaire integration in panels use Connect Bridging



See Quantity specification



Straight cut, panel resting on shadow-line trim.



Connect E-plug

Size, mm	Max live load [N]	Min load bearing capacity [N]
600x600	20	160

Live load/load bearing capacity