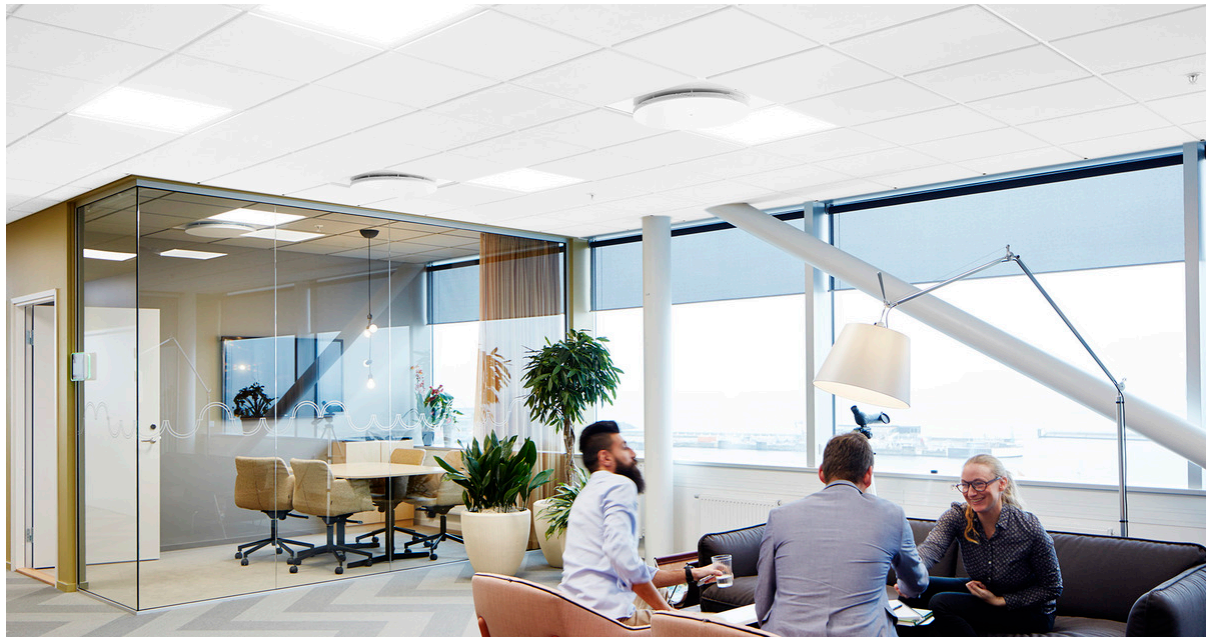


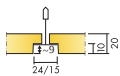
Ecophon Focus™ E

Ecophon Focus™ E has a recessed visible grid and a tegular edge, creating a ceiling with a shadow effect that accentuates each tile and partially conceals the grid. For applications where an attractive suspended ceiling is required and easy removal of individual tiles is essential.

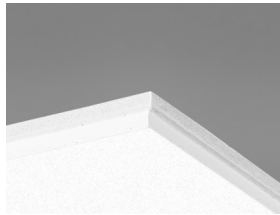


Willbørgs Fastigheter, Helsingborg, Sweden

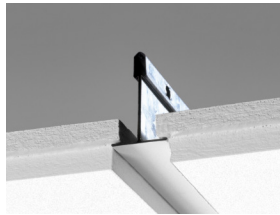
SYSTEM RANGE



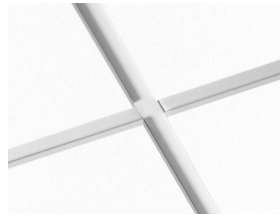
Size, mm	600x600	1200x600	1200x1200	XL 1600x600	XL 1800x600	XL 2000x600	XL 2400x600
Connect T15	•	•	•				
Connect T24	•	•	•	•	•	•	•
Thickness	20	20	20	20	20	20	20
Inst. Diagr.	M12	M12	M12	M47, M49	M47, M49	M47, M49	M47, M49



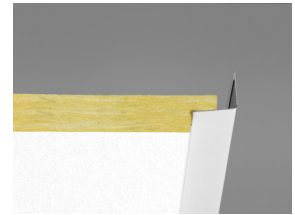
Focus E tile



Section of Focus E system with Connect T24



Focus E system with Connect T24



Focus E with Connect Angle trim

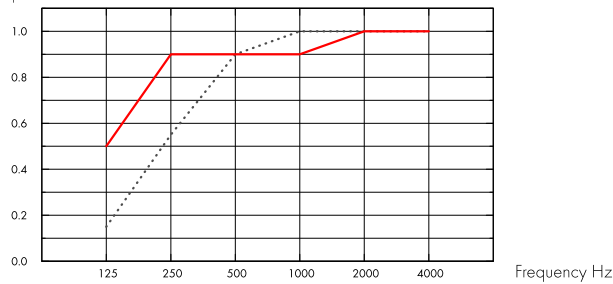
Acoustic



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



..... Focus E 20 mm, 60 mm o.d.s.

— Focus E 20 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	60	0.15	0.55	0.90	1.00	1.00	1.00	0.85	B
20	200	0.50	0.90	0.90	0.90	1.00	1.00	0.95	A

THK mm	o.d.s. mm	NRC	SAA
20	60	0.90	0.87
20	400	0.85	0.85

THK mm	AC(1.5)		D_{nfw}		CAC dB	
	Articulation Class, ASTM E1111, ASTM E1110		Weighted normalized flanking level difference, ISO 10848-2		Ceiling Attenuation Class, ASTM 1414, ASTM E413	
20	180		22		23	

Indoor Air Quality



Certificate / Label	All Products
Eurofins Indoor Air Comfort®	IAC Gold
French VOC	A+
Finnish M1	•





Material Health

This product has received a C2C Certified Material Health Certificate™ at the Silver level (standard version 4.0). The C2C Certified Material Health Certificate™ is a verification of the health and safety of a product's composition using the Material Health requirements of the Cradle-to-Cradle Certified Product Standard.



Cradle to Cradle Certified®



This product is Cradle to Cradle Certified® at Bronze level (version 4.0).



Carbon footprint

	kg CO ₂ equiv./m ²	Life-cycle stages A1 to C4 from EPD, in conformity with ISO 14025 / EN 15804
Focus E	3,66	
Focus E/Plant	2,35	



Circularity

Minimum post-consumer recycled content	55%
Recyclability	Fully recyclable



Fire safety

Country	Fire standard	Class	The glass wool core of the tiles is tested and classified as non-combustible according to EN ISO 1182.
Europe	EN 13501-1	A2-s1,d0	



Humidity Resistance

Product	Classification	According to EN 13964:2014
Standard	Class C, RH 95% and 30°C	
Plant	Class A, RH 70% and 25°C	



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.



System weight

	kg/m ²
Focus E	2,0
Focus E + Connect grid system	2,9

Weight information is indicative and subject to variation.



Mechanical properties

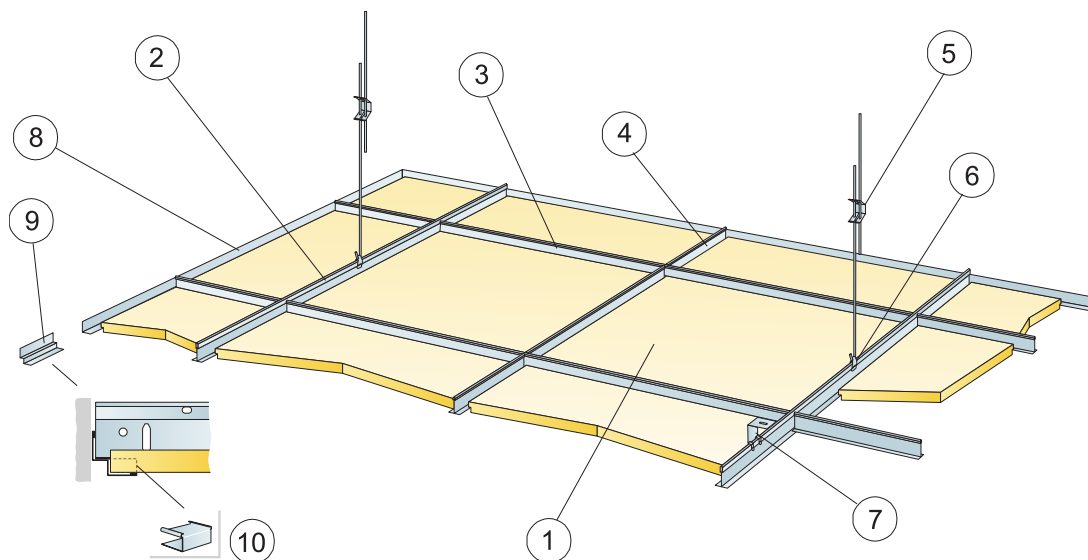
See table about Max live load and Min load bearing capacity and Functional demands, Mechanical properties at www.ecophon.com.



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.

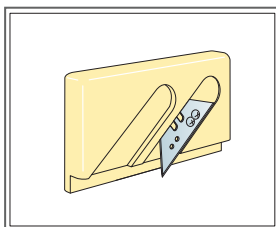
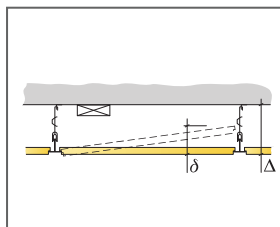
INSTALLATION DIAGRAM (M12) FOR ECOPHON FOCUS E



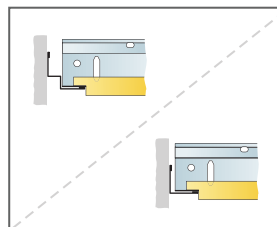
© Ecophon Group

QUANTITY SPECIFICATION (EXCL. WASTAGE)

	Size, mm		
	600x600	1200x600	1200x1200
1 Focus E	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	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
10 Connect E-plug (for 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, (1200x1200 mm, T15: 160 mm)	-	-	-
For luminaire integration in panels use Connect Bridging	-	-	-



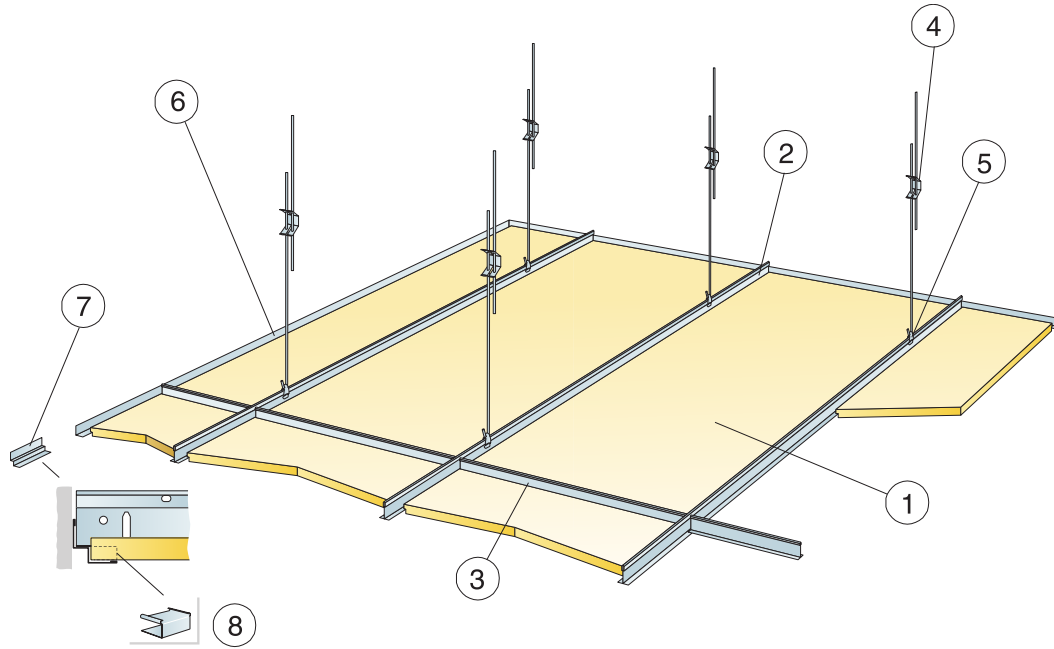
Connect Cutting tool E



Tegular rebate with angle trim and T-profile on foot of shadow-line trim.

Size, mm	Max live load [N]	Min load bearing capacity [N]
600x600x20	50	160
1200x600x20	50	160
1200x1200x20	50	160

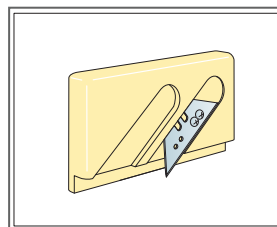
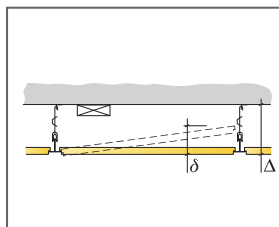
Live load/load bearing capacity



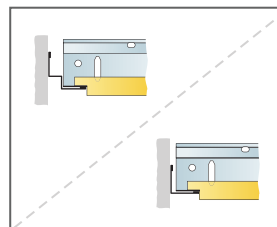
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QUANTITY SPECIFICATION (EXCL. WASTAGE)

	Size, mm			
	1600x600	1800x600	2000x600	2400x600
1 Focus E	1,05/m ²	0,95/m ²	0,85/m ²	0,7/m ²
2 Connect T24 Main runner, installed at 600 mm centres	1,7m/m ²	1,7m/m ²	1,7m/m ²	1,7m/m ²
3 Connect T24 Cross tee, L=600 mm	0,65m/m ²	0,6m/m ²	0,5m/m ²	0,45m/m ²
4 Connect Adjustable hanger, installed at 1500 mm centres (max. distance from wall 450 mm)	1,1/m ²	1,1/m ²	1,1/m ²	1,1/m ²
5 Connect Hanger clip	1,1/m ²	1,1/m ²	1,1/m ²	1,1/m ²
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
8 Connect Eplug (for Shadow-line trim)	as required	as required	as required	as required
Δ Min. overall depth of system: 110 mm	-	-	-	-
δ Minimum demounting depth: 110 mm	-	-	-	-



Cutting tool E 0221

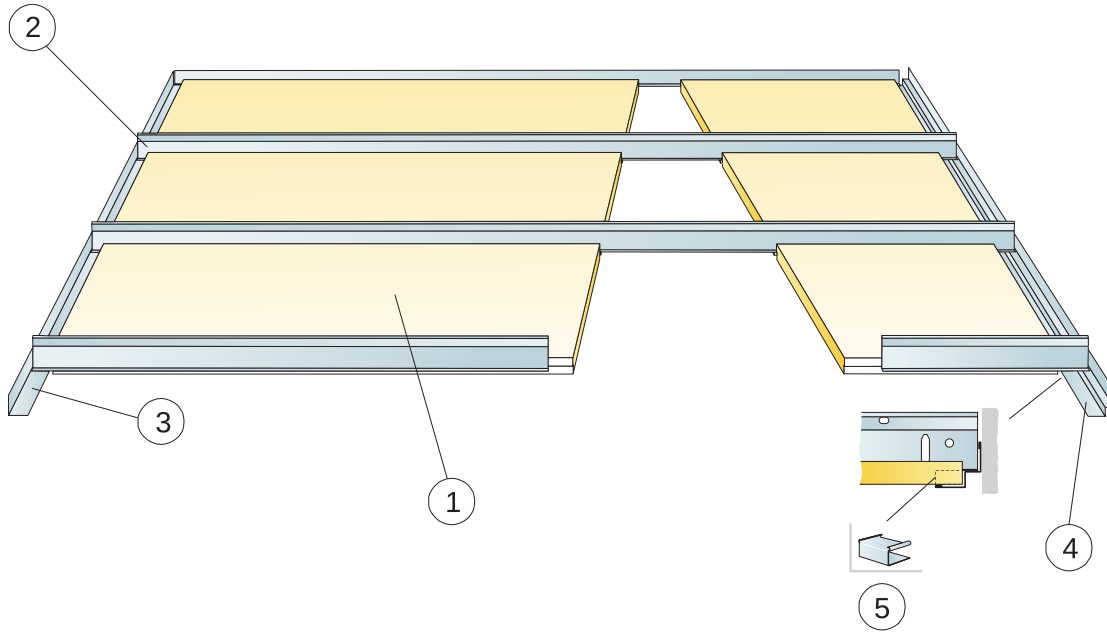


Tegular rebate with angle trim and T-profile on foot of shadow-line trim.

Size, mm	Max live load [N]	Min load bearing capacity [N]
1600x600x20	50	160
1800x600x20	50	160
2000x600x20	50	160
2400x600x20	50	160

Live load/load bearing capacity

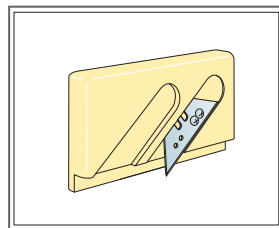
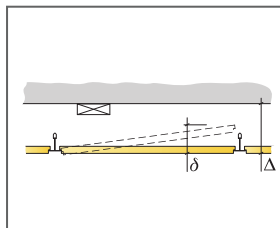
INSTALLATION DIAGRAM (M49) FOR ECOPHON FOCUS E XL IN CORRIDORS



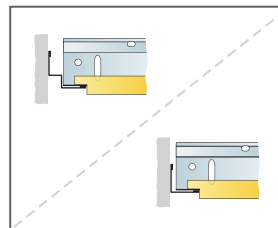
© Ecophon Group

QUANTITY SPECIFICATION (EXCL. WASTAGE)

	Size, mm			
	1600x600	1800x600	2000x600	2400x600
1 Focus E	1,05/m ²	0,95/m ²	0,85/m ²	0,7/m ²
2 Connect T24 Corridor profile, installed at 600 mm centres	1,05/m ²	0,95/m ²	0,85/m ²	0,7/m ²
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
5 Connect E-plug (for Shadow-line trim)	as required	as required	as required	as required
Δ Min. overall depth of system: 50 mm	-	-	-	-
δ Min. demounting depth: 75 mm	-	-	-	-



Cutting tool E 0221



Tegular rebate with angle trim and T-profile on foot of shadow-line trim.

Size, mm	Max live load [N]	Min load bearing capacity [N]
1600x600x20	40	-
1800x600x20	20	-
2000x600x20	10	-
2400x600x20	0	-

Live load/load bearing capacity