Ecophon Industry™ Modus

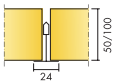
A functional ceiling for optimal sound absorption in all types of industrial premises, where different sizes and installation methods are required. Ecophon Industry™ Modus can be installed in exposed grid systems or directly to the soffit with screw and washer. Industry™ Modus is available in three colors: white, black and grey.

Smaller aesthetical deviations between the tiles may occur. These deviations do not have any impact on the functionality of the system.



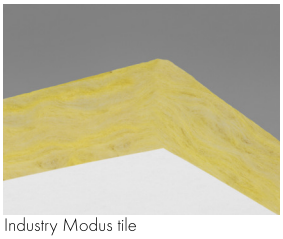
Sweden

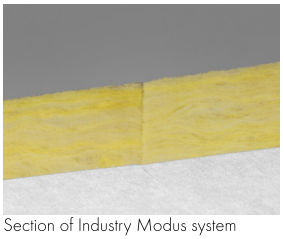
SYSTEM RANGE

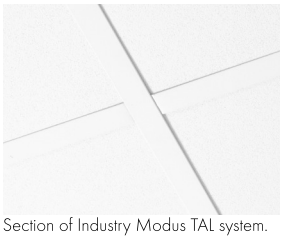


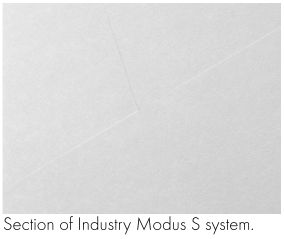
Size, mm	1200x600	1200x1200	1200x1200
Direct	•	•	•
T24	•	•	•
Thickness (THK)	50	50	100
Inst. Diagr.	M22, M23, M44, M444	M22, M23, M44, M444	M22, M23, M44, M444

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Industry Modus tile

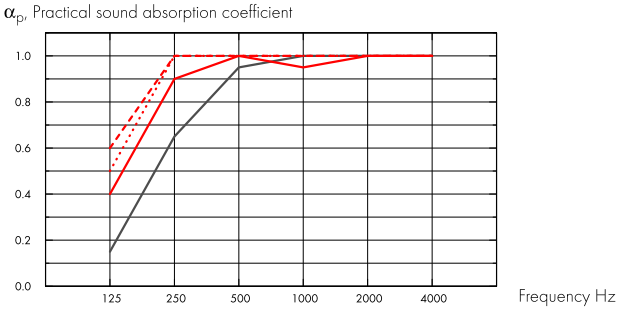

Section of Industry Modus system


Section of Industry Modus TAL system.


Section of Industry Modus S system.

Acoustic

Sound Absorption:
Test results according to EN ISO 354. Classification according to EN ISO 11654.



– Industry Modus S 50 mm, 50 mm o.d.s.
– Industry Modus S 50 mm, 200 mm o.d.s.
···· Industry Modus S 100 mm, 100 mm o.d.s.
--- Industry Modus S 100 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		
50	50	0.15	0.65	0.95	1.00	1.00	1.00	0.95	A
50	200	0.40	0.90	1.00	0.95	1.00	1.00	1.00	A
100	100	0.50	1.00	1.00	1.00	1.00	1.00	1.00	A
100	200	0.60	1.00	1.00	1.00	1.00	1.00	1.00	A

THK mm	o.d.s. mm	NRC	SAA
50	50	0.90	0.93
100	100	1.10	1.07
100	200	1.10	1.07
100	400	1.05	1.03

Indoor Air Quality

Certificate / Label	
Eurofins Indoor Air Comfort®	IAC
French VOC	A
Finnish M1	•

Environmental Footprint

	kg CO_2 equiv/m²
Industry Modus S 50mm	2,35
Industry Modus S 100mm	4,44

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

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Circularity

Minimum post-consumer recycled content (50 mm)	60%
Minimum post-consumer recycled content (100 mm)	63%
Recyclability	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

S White 190, nearest NCS colour sample S 0500-N, 80% light reflectance. S Grey 981, nearest NCS colour sample S 2502-Y, 45% light reflectance. S Black 970, nearest NCS colour sample S 8502-Y, 4% light reflectance. S Nature, 60% light reflectance. Slight colour differences can occur.

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. For information regarding minimum overall depth of system see quantity specification.

System weight

The weight of the system (including suspension grid) should be approximately 3-5 kg/m².

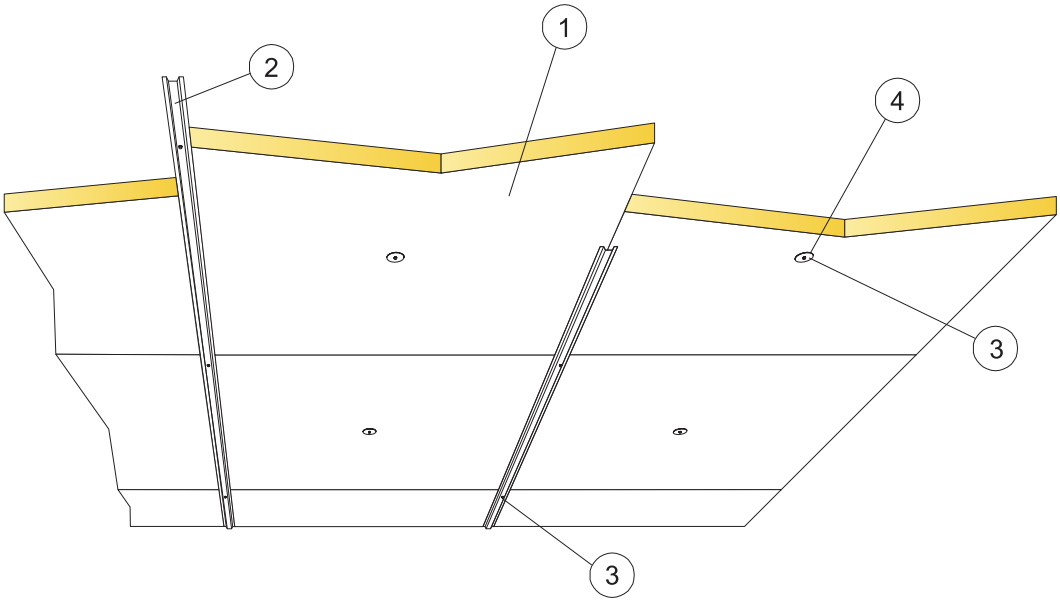
Mechanical properties

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.

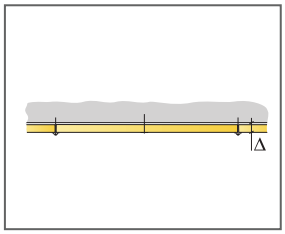
INSTALLATION DIAGRAM (M22) FOR ECOPHON MODUS WITH INLINE CARRIER

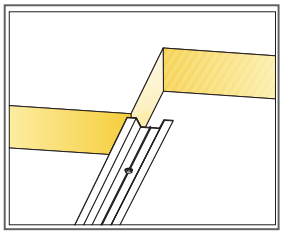


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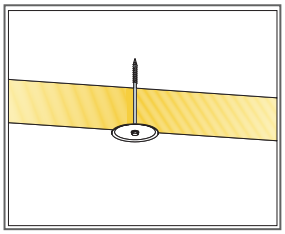
QUANTITY SPECIFICATION (EXCL. WASTAGE)

		Size, mm	
		1200x600	**1200x1200**
1	Industry Modus	1,4/m²	0,7/m²
2	Connect Inline carrier, installed at 1200 mm centres	0,9m/m²	0,9m/m²
3	Connect Screw (for light weight concrete, concrete or metal)	2,3/m²	1,6/m²
4	Connect Washer	1,4/m²	0,7/m²
	Δ Min. overall depth of system: 50 or 100 mm	-	-
	δ Min. demounting depth: The system is non-demountable	-	-





Profiles support tiles in one direction

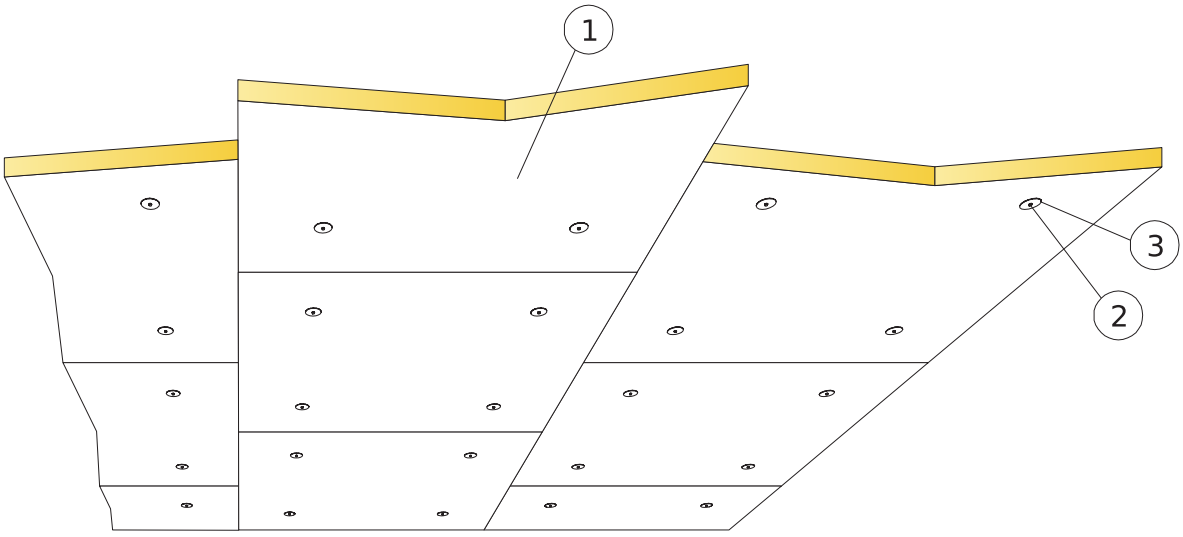


Screw and washer in centre of tiles

Size, mm	Max live load (N)	Min load bearing capacity (N)
1200x600x50	-	-
1200x1200x50	-	-
1200x1200x100	-	-

Live load/load bearing capacity

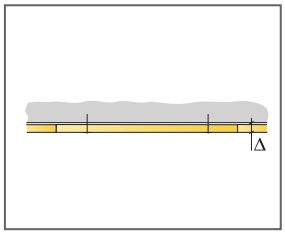
INSTALLATION DIAGRAM (M23) FOR ECOPHON MODUS WITH SCREW AND WASHER

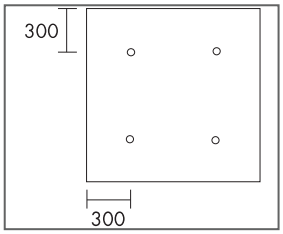


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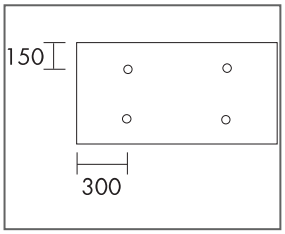
QUANTITY SPECIFICATION (EXCL. WASTAGE)

		Size, mm	
		1200x600	**1200x1200**
1	Industry Modus	1,4/m²	0,7/m²
2	Connect Screw (for light weight concrete, concrete or metal)	5,6/m²	2,8/m²
3	Connect Washer	5,6/m²	2,8/m²
	Δ Min. overall depth of system: 50 or 100 mm	-	-
	δ Min. demounting depth: The system is non-demountable	-	-





Position of screws size 1200x1200

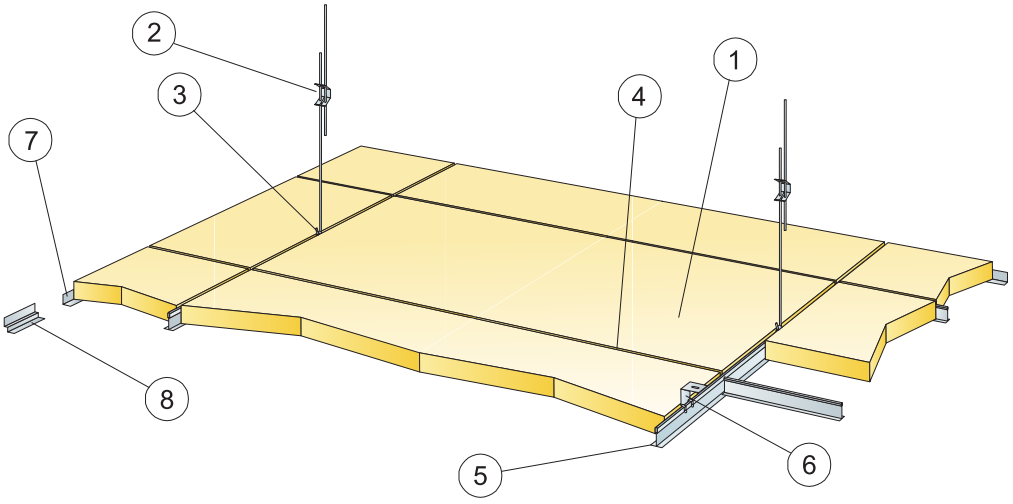


Position of screws size 1200x600

Size, mm	Max live load (N)	Min load bearing capacity (N)
1200x600x50	-	-
1200x1200x50	-	-
1200x1200x100	-	-

Live load/load bearing capacity

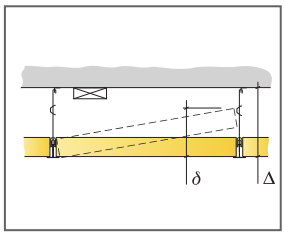
INSTALLATION DIAGRAM (M44) FOR ECOPHON INDUSTRY MODUS, 2- OR 4- SIDED SUPPORT

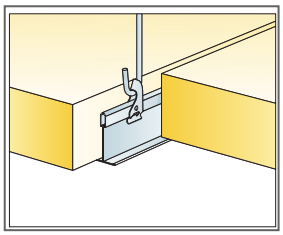


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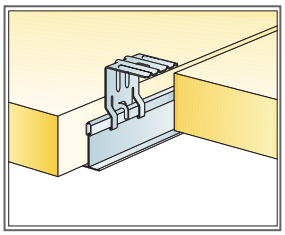
QUANTITY SPECIFICATION (EXCL. WASTAGE)

		Size, mm	
		1200x600	**1200x1200**
1	Industry Modus	1,4/m²	0,7/m²
2	Connect Adjustable hanger, installed at 1200 mm centres (only 4-sided support)	0,7/m²	0,7/m²
3	Connect Hanger Clip (not to be used in swimming hall environments)	0,7/m²	0,7/m²
4	Connect T24 Cross tee, L=1200, installed at 1200 or 600 mm centres (only 4-sided support)	1,7m/m²	0,9m/m²
5	Connect T24 Main runner, installed at 1200 mm centres (only 4-sided support)	0,9m/m²	0,9m/m²
6	For direct installation: Connect Direct Bracket, installed at 1200 mm centres	0,7/m²	0,7/m²
7	Connect Angle trim, fixed at 300 mm centres	as required	as required
8	Connect Shadow-line trim, fixed at 300 mm centres	as required	as required
	Δ Min. overall depth of system: 50, 80 or 100 mm with Direct fixing bracket. 100 mm with Adjustable hanger.	-	-
	δ Min. demounting depth: 150 mm for 50 mm thickness. 250 mm for 100 mm thickness.	-	-





Suspension with adjustable hanger and clip

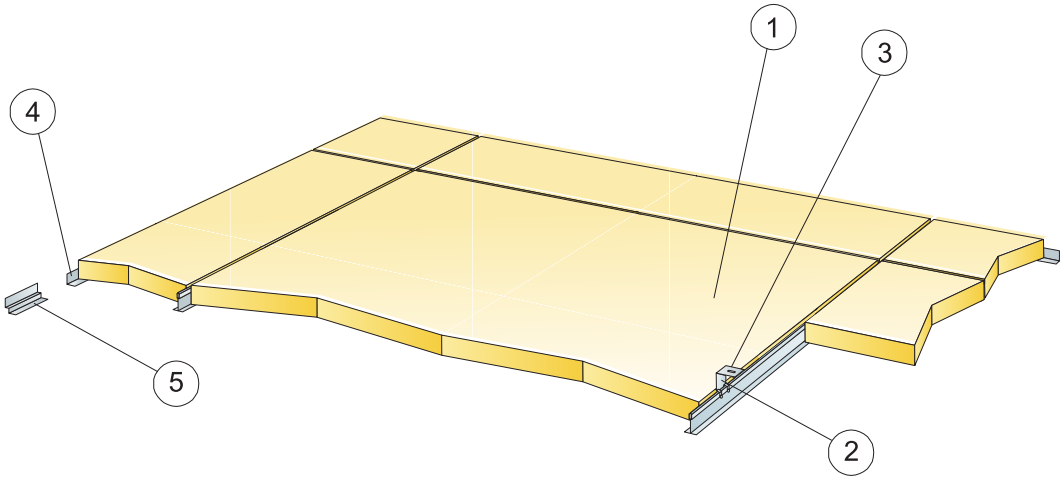


Suspension with direct bracket

Size, mm	Max live load (N)	Min load bearing capacity (N)
1200x600x50	40	160
1200x1200x50	40	160
1200x1200x100	40	160

Live load/load bearing capacity

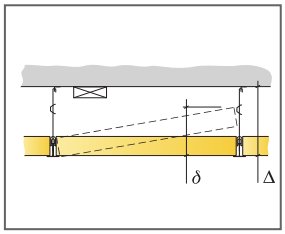
INSTALLATION DIAGRAM (M444) FOR ECOPHON INDUSTRY MODUS, 2-SIDED SUPPORT

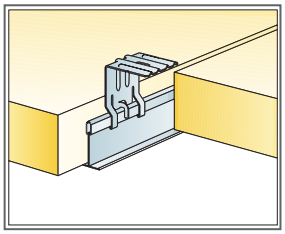


© Ecophon Group

QUANTITY SPECIFICATION (EXCL. WASTAGE)

		Size, mm	
		1200x600	**1200x1200**
1	Industry Modus	1,4/m²	0,7/m²
2	Connect T24 Main runner, installed at 1195 mm centres (only 2-sided support)	0,9m/m²	0,9m/m²
3	For direct installation: Connect Direct Bracket, installed at 1200 mm centres	0,7/m²	0,7/m²
4	Connect Angle trim, fixed at 300 mm centres	as required	as required
5	Connect Shadow-line trim, fixed at 300 mm centres	as required	as required
	Δ Min. overall depth of system: 50, 80 or 100 mm with Direct fixing bracket.	-	-
	δ Min. demounting depth: The system is non-demountable	-	-





Suspension with direct bracket

Size, mm	Max live load (N)	Min load bearing capacity (N)
1200x600x50	40	160
1200x1200x50	40	160
1200x1200x100	40	160

Live load/load bearing capacity

Ecophon Industry™ Ambit

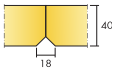
Suitable for noise reduction in industrial premises, where no visible suspension details are required. The tiles are not demountable. The narrow groove between the tiles generates a smooth design.

The Ecophon Industry™ Ambit system consists of Ecophon Industry™ Ambit tiles and Connect Ambit fixing, with an approximate weight of 3 kg/m². The edges are primed.

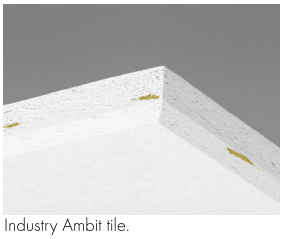


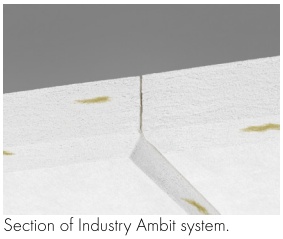
The Print shop, ,

SYSTEM RANGE



Size, mm	1200x600
Direct	•
Thickness (THK)	40
Inst. Diagr.	M40

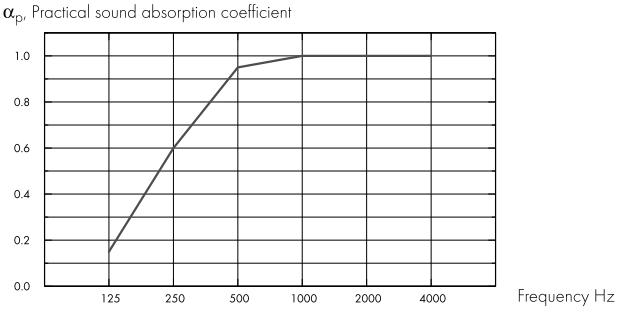

Industry Ambit tile.


Section of Industry Ambit system.


Industry Ambit system.

Acoustic

Sound Absorption:
Test results according to EN ISO 354. Classification according to EN ISO 11654.



– Industry Ambit 40 mm, 40 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		
40	40	0.15	0.60	0.95	1.00	1.00	1.00	0.90	A

Indoor Air Quality

Certificate / Label	
Eurofins Indoor Air Comfort®	IAC
French VOC	A
Finnish M1	•

Environmental Footprint

	kg CO_2 equiv/m²
Industry Ambit	4,81

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

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 190, nearest NCS colour sample S 1000-N, 80% light reflectance. Since the product has a coloured glasfelt as a surface, it can appear mottled, specially with indirect lighting. Slight colour differences can occur.

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Cleanability

Weekly dusting and vacuum cleaning.

Accessibility

The tiles are not demountable.

Installation

Installed according to installation diagrams, installation guides and drawing aid. For information regarding minimum overall depth of system see quantity specification.

System weight

The weight of the system should be approximately 3 kg/m².

Mechanical properties

Additional live load has to be fixed to the soffit.

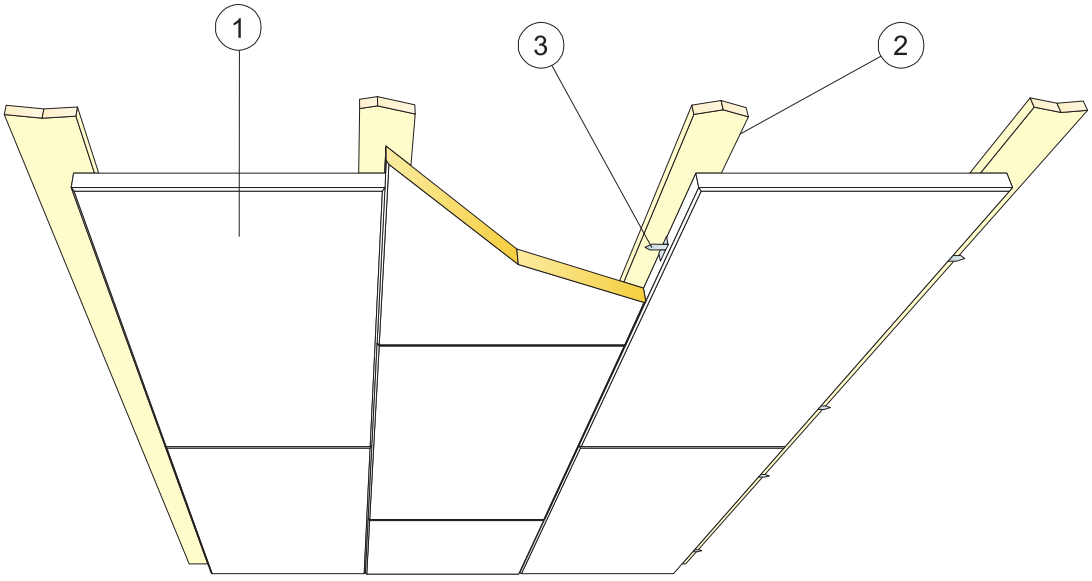
CE

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.

Circularity

Minimum post-consumer recycled content	62%
Recyclability	Fully recyclable

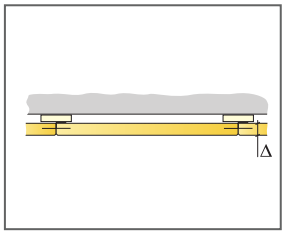
INSTALLATION DIAGRAM (M40) FOR ECOPHON INDUSTRY AMBIT

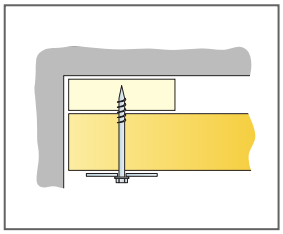


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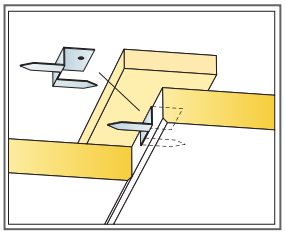
QUANTITY SPECIFICATION (EXCL. WASTAGE)

		Size, mm
		1200x600
1	Industry Ambit	1,4/m²
2	Timber batten	as required
3	Connect Ambit fixing	2,8/m²
	Δ Min. overall depth of system: 40 mm	-
	δ Min. demounting depth: The system is non-demountable	-





Installation on timber batten with screw and washer



Installation with Connect Ambit fixing

Size, mm	Max live load (N)	Min load bearing capacity (N)
1200x600x40	-	-

Live load/load bearing capacity