# Ecophon Industry<sup>TM</sup> Modus

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

occur. These deviations do not have any impact on the functionality of the system.

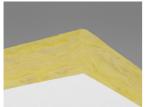
Smaller aesthetical deviations between the tiles may



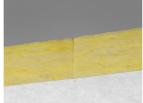
#### **SYSTEM RANGE**



3	Size, mm			
		1200x600	1200×1200	1200×1200
	Direct	•	•	•
	T24	•	•	•
	Thickness	50	50	100
	Inst. Diagr.	M22, M23, M44, M444	M22, M23, M44, M444	M22, M23, M44, M444







Section of Industry Modus system.



Section of Industry Modus TAL system.



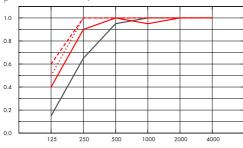
Section of Industry Modus S system.

#### Acoustic

#### **Sound Absorption:**

Test results according to EN ISO 354. Classification according to EN ISO 11654.

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



Frequency Hz

- 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	o.d.s. mm		α <sub>p′</sub> Pι	ractical soun	d absorption c	coefficient		$\alpha_{_{W}}$	Sound absorption class
mm	O.G.S. IIIII	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	· · · · · ·	Sound absorption class
50	50	0.15	0.65	0.95	1.00	1.00	1.00	0.95	А
50	200	0.40	0.90	1.00	0.95	1.00	1.00	1.00	А
100	100	0.50	1.00	1.00	1.00	1.00	1.00	1.00	А
100	200	0.60	1.00	1.00	1.00	1.00	1.00	1.00	А

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**











#### Cradle to Cradle Certified®



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



#### **Material Health**

This product has received a C2C Certified Material Health Certificate<sup>TM</sup> at the Silver level (standard version 4.0). The C2C Certified Material Health Certificate<sup>TM</sup> 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.



#### **Environmental Footprint**

	kg CO2 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  $14025 \ / \ EN \ 15804$ 



#### Circularity

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



#### Fire safety

Country	Fire standard	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

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/m<sup>2</sup>.



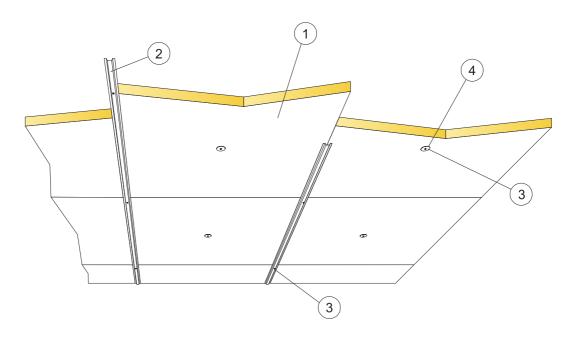
#### **Mechanical properties**

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



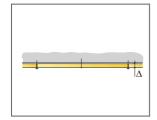
### CE

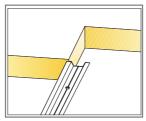
Ecophon ceiling systems are CE marked according to the European harmonized standard EN13964:2014. CE marked construction products are covered by a Declaration of Performance (DOP) which enables customers and users to easily compare performance of products available on the European market.



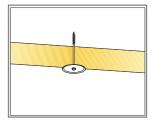
### QUANTITY SPECIFICATION (EXCL. WASTAGE)

		Size, mm	Size, mm	
		1200×600	1200×1200	
1	Industry Modus	1,4/m²	0,7/m²	
2	Connect Inline carrier, installed at 1 200 mm centres	0,9m/m²	0,9m/m²	
3	Connect Screw (for light weight concrete, concrete or metal)	2,3/m²	1,6/m²	
1	Connect Washer	1,4/m²	0,7/m²	
	$\Delta$ Min. overall depth of system: 50 or 100 mm	-	-	
	$\delta$ Min. demounting depth: The system is non-demountable	-	-	



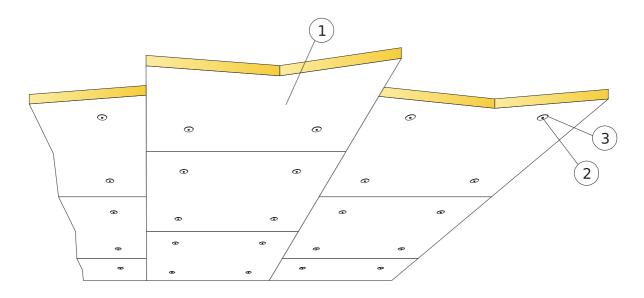






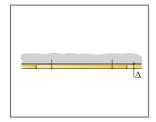
Screw and washer in centre of tiles

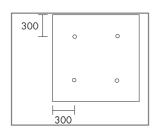
Size, mm		Min load bearing capacity (N)
1200x600x50		-
1200x1200x50	-	-
1200x1200x100	-	-

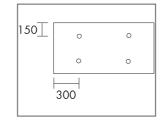


# QUANTITY SPECIFICATION (EXCL. WASTAGE)

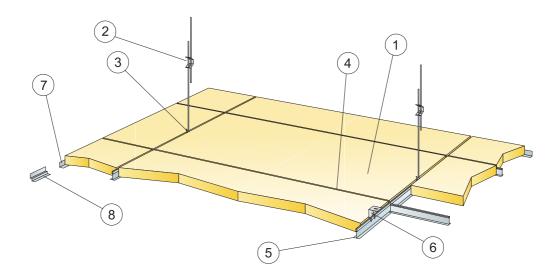
		Size, mm	
		1200×600	1200×1200
1	Industry Modus	1,4/m²	0,7/m²
2	Connect Screw (for light weight concrete, concrete or metal)	5,6/m²	2,8/m²
3	Connect Washer	5,6/m²	2,8/m²
	$\Delta$ Min. overall depth of system: 50 or 100 mm	-	
	$\delta$ Min. demounting depth: The system is non-demountable	-	-





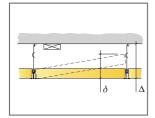


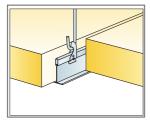
Size, mm		Min load bearing capacity (N)
1200x600x50	-	-
1200x1200x50	-	-
1200x1200x100	-	÷



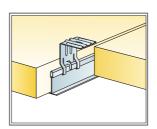
# QUANTITY SPECIFICATION (EXCL. WASTAGE)

		Size, mm	
		1200×600	1200×1200
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
	$\Delta$ Min. overall depth of system: 50, 80 or 100 mm with Direct fixing bracket. 100 mm with Adjustable hanger.	-	
	$\delta$ Min. demounting depth: 150 mm for 50 mm thickness. 250 mm for 100 mm thickness.	-	-



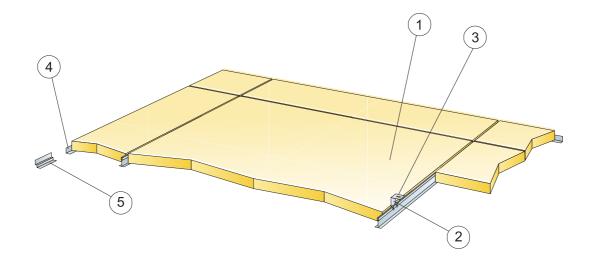


Suspension with adjustable hanger and clip



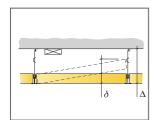
Suspension with direct bracket

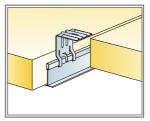
Size, mm	Max live load (N)	Min load bearing capacity (N)
1200x600x50	40	160
1200x1200x50	40	160
1200x1200x100	40	160



### QUANTITY SPECIFICATION (EXCL. WASTAGE)

	Size, mm	
	1200x600	1200×1200
Industry Modus	1,4/m²	0,7/m²
Connect T24 Main runner, installed at 1195 mm centres (only 2-sided support)	0,9m/m²	0,9m/m²
For direct installation: Connect Direct Bracket, installed at 1200 mm centres	0,7/m²	0,7/m²
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: 50, 80 or 100 mm with Direct fixing bracket.	-	-
$\delta$ Min. demounting depth: The system is non-demountable	-	-





Suspension with direct bracket

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

# Ecophon Industry<sup>TM</sup> 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.

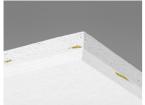
The Ecophon Industry™ Ambit system consists of Ecophon Industry™ Ambit tiles and Connect Ambit fixing, with an approximate weight of 3 kg/m². The edges are primed.



#### **SYSTEM RANGE**



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







Section of Industry Ambit system.



Industry Ambit system.

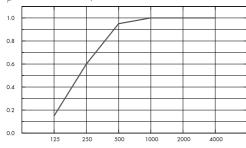
#### Acoustic



#### **Sound Absorption:**

Test results according to EN ISO 354. Classification according to EN ISO 11654.

 $lpha_{\mbox{\tiny D}}$ , Practical sound absorption coefficient



Frequency Hz

Industry Ambit 40 mm, 40 mm o.d.s.o.d.s = overall depth of system

THK	o.d.s. mm	$lpha_{ m p}$ , Practical sound absorption coefficient					$\alpha_{w}$	Sound absorption class	
mm		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	o. <sub>₩</sub>	Sound absorption class
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	А				
Finnish M1	•				









### Cradle to Cradle Certified®



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



#### **Material Health**

This product has received a C2C Certified Material Health Certificate<sup>TM</sup> at the Silver level (standard version 4.0). The C2C Certified Material Health Certificate<sup>TM</sup> 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.



## **Environmental Footprint**

	kg CO2 equiv/m²	Life-cycle stages A1 to C4 from EPD, in conformity with ISC 14025 / EN 15804
Industry Ambit	481	14023 / LIN 13004



#### Circularity

Minimum post-consumer recycled content	62%
Recyclability	Fully recyclable



#### Fire safety

Country	Fire standard	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  $^{\circ}$  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 glassfelt as a surface, it can appear mottled, specially with indirect lighting. Slight colour differences can occur.



#### Cleanability

Weekly dusting and vacuum cleaning.



#### Accessibility

The tiles are non-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  $3 \text{ kg/m}^2$ .



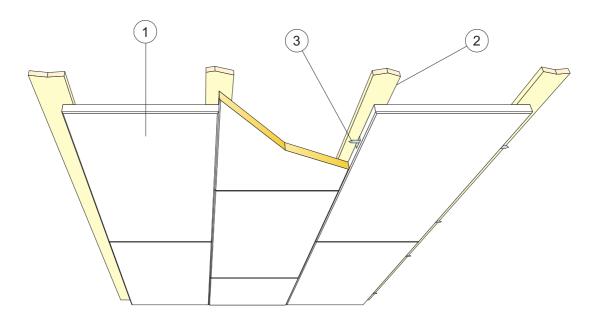
#### **Mechanical properties**

Additional live load has to be fixed to the soffit.



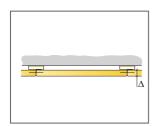
#### CE

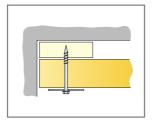
Ecophon ceiling systems are CE marked according to the European harmonized standard EN13964:2014. CE marked construction products are covered by a Declaration of Performance (DOP) which enables customers and users to easily compare performance of products available on the European market.



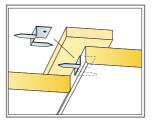
### QUANTITY SPECIFICATION (EXCL. WASTAGE)

		Size, mm
		1200×600
	Industry Ambit	1,4/m²
2	Timber batten	as required
3	Connect Ambit fixing	2,8/m²
	$\Delta$ Min. overall depth of system: 40 mm	
	$\delta$ Min. demounting depth: The system is non-demountable	





Installation on timber batten with screw and washer



Installation with Connect Ambit fixing



Live load/load bearing capacity

# Ecophon Industry™ RTP

Suitable for noise reduction in industrial premises, where an impact resistant ceiling is needed. The panels have a glass wool core with a black surface. The visible surface is a perforated sheet metal facing (Ø3 mm hole diameter, 15% perforated area). The metal facing is bent around the long edges of the panels and overlaps the back surface. The perforated sheet metal facing is galvanized.

Connect<sup>™</sup> grid and accessories. The grid is manufactured from galvanized steel.

For best performance and system quality, use



#### **SYSTEM RANGE**

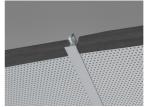


Size, mm	1200x600	1200x600
T24	•	•
Thickness	30	50
Inst. Diagr.	M172	M172

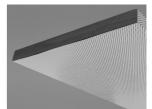
© Saint-Gobain Ecophon AB Ecophon Industry™ RTP, 2024-04-29



Industry RTP system.



Section of Industry RTP system.



Industry RTP panel.

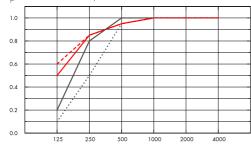
## Acoustic



### **Sound Absorption:**

Test results according to EN ISO 354. Classification according to EN ISO 11654.

 $lpha_{\mbox{\tiny D}}$ , Practical sound absorption coefficient



- ···· Industry RTP 30 mm, 50 mm o.d.s. - Industry RTP 30 mm, 200 mm o.d.s.
- Industry RTP 50 mm, 50 mm o.d.s.
- --- Industry RTP 50 mm, 200 mm o.d.s.

o.d.s = overall depth of system

Frequency I	+	12
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THK	. d		α <sub>p′</sub> Pr	actical soun	d absorption c	coefficient		$\alpha_{\scriptscriptstyle{W}}$	Sound absorption class
mm	o.d.s. mm	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	o. <sub>w</sub>	Sound absorption class
30	50	0.10	0.50	0.95	1.00	1.00	1.00	0.80	В
30	200	0.50	0.85	0.95	1.00	1.00	1.00	1.00	А
50	50	0.20	0.80	1.00	1.00	1.00	1.00	1.00	А
50	200	0.60	0.85	0.95	1.00	1.00	1.00	1.00	А

THK mm	o.d.s. mm	NRC	SAA
30	50	0.85	0.89
30	200	0.95	0.96
50	50	0.95	0.99
50	200	0.95	0.99

#### Circularity

Minimum post-consumer recycled content (30 mm)	65%
Minimum post-consumer recycled content (50 mm)	67%
Recyclability	Fully recyclable



### Fire safety

Country	Fire 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.

# Hui

#### **Humidity Resistance**

Class A, relative humidity 70% and 25°C, according to EN 13964:2014



#### Visual appearance

Galvanized 189, 55% light reflectance, 65% light reflectance.



#### 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 8-10 kg/m<sup>2</sup>.



#### **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.



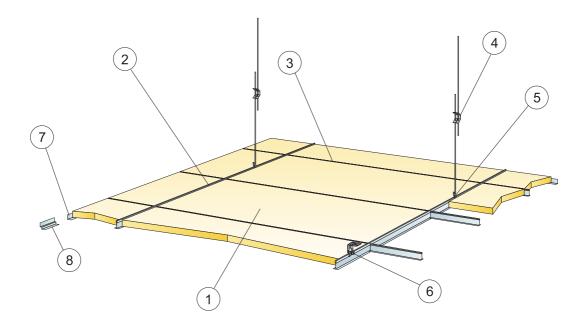
#### **Indoor Air Quality**

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



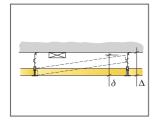


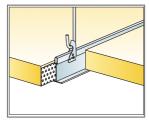




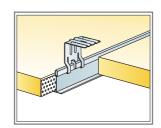
### QUANTITY SPECIFICATION (EXCL. WASTAGE)

	Size, mm
	1200×600
Industry RTP	1,4/m²
Connect T24 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
3 Connect T24 Cross tee, L=1 200 mm, installed at 600 mm centres	1,7m/m²
Connect Adjustable Hanger, installed at 1 200 mm centres (max. distance from wall 600 mm)	0,7/m²
5 Connect Hanger Clip (not to be used in swimming hall environments)	0,7/m²
For direct installation: Connect Direct Bracket, installed at 1200 mm centres	0,7/m²
7 Connect Angle trim, fixed at 300 mm centres	as required
3 Connect Shadow-line trim, fixed at 300 mm centres	as required
$\Delta$ Min. overall depth of system, with Adjustable hanger: 100 mm, with Direct bracket 50 mm	-
δ Min. demounting depth: 170 mm (30 mm thickness), 220 mm (50 mm thickness)	





Suspension with adjustable hanger and clip



Suspension with Direct bracket

Size, mm	Max live load (N)	Min load bearing capacity (N)
1200x600x30	30	160
1200x600x50	30	160