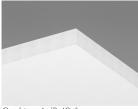
Ecophon Combison™ A, dB 42

Ecophon Combison[™] dB is the fastest and easiest way to combine features for both sound absorption and sound insulation between rooms. Ideal for installations where the partitions do not extend all the way up to the soffit. Combison dB can also help to reduce vertical noise from floor to floor. The panel is easy to handle, install and demount and it has a visible grid system. It is made from crimped glass fibre and has an Akutex FT surface on the front.



SYSTEM RANGE

8	Size, mm	600x600	1200x600
24	T24	•	•
	Thickness (THK)	50	50
	Inst. Diagr.	M531	M531





Combison A dB 42 tile

Section of Combison A dB 42 system



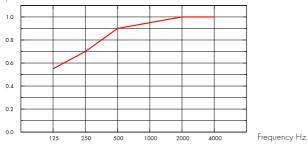
Combison A dB 42 system

Acoustic

Sound Absorption:

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

 $lpha_{_{D'}}$ Practical sound absorption coefficient



- Combison dB 42 A/E, 200 mm o.d.s.
- o.d.s = overall depth of system

THK	odemm		$lpha_{ m p'}$ Pr	actical sound	d absorption c	coefficient		α	Sound absorption class
mm	o.d.s. mm	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz		
50	200	0.55	0.70	0.90	0.95	1.00	1.00	0.95	А

THK mm	o.d.s. mm	NRC	SAA
50	200	0.90	0.90

THK mm	Product	D _{nfw} Weighted normalized flanking level difference, ISO 10848-2	R _w Weighted sound reduction index, ISO 10140-2
50	-	42	21
-	+ 1 x Barrier	+4	-
-	+ 2 x Barrier	+8	-
-	+ 2 x 1 200 XR	+3	-



Indoor Air Quality

Certificate / Label	All Products	SOOR AIR COANE
Eurofins Indoor Air Comfort®	IAC Gold	CRATINED PROV
French VOC	A+	
Finnish M 1	•	



Environmental Footprint

)*		kg CO2 equiv/m²	Life-cycle stages A1 to C4 from EPD, in conformity with ISO 14025 / EN 15804
	Combison A dB 42	8,0	- 14023 / EIN 13804



Circularity

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



Visual appearance

Akutex FT: White Frost, nearest NCS colour sample S 0500-N, 85% light reflectance. Gloss < 1. For more info see Colours and surfaces.



Cleanability

Akutex FT: Daily dusting and vacuum cleaning. Weekly wet wiping. For more info see Colours and surfaces.



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 7 kg/m².



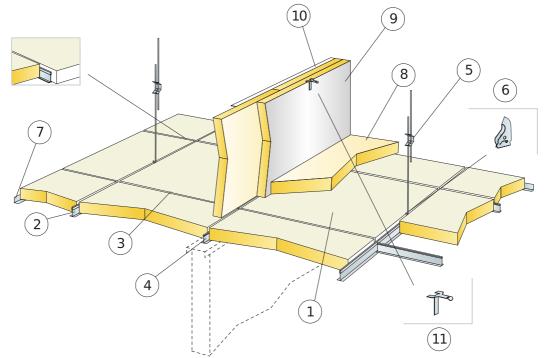
Mechanical properties

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



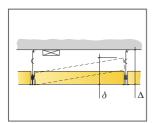
CE

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.

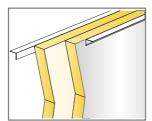


QUANTITY	Specification	WASTAGE)	١
QUARTIT	JILCHICKION.	VV/ UV/ UL	1

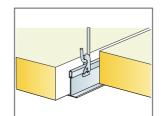
		Size, mm	
		600×600	1200x600
1	Combison A, dB 42	2,8/m²	1,4/m²
2	Connect T24 Main runner, installed at 1200 mm centres (max distance from wall 300 mm)	0,9m/m²	0,9m/m²
3	Connect T24 Cross tee, L=1200 mm, installed at 600 mm centres	1,7m/m²	1,7m/m²
4	Connect T24 Cross tee, L=600 mm	0,9m/m²	-
5	Connect Adjustable Hanger, installed at 1200 mm centres (max. distance from wall 600 mm)	0,7/m²	0,7/m²
5	Connect Hanger Clip (not to be used in swimming hall environments)	0,7/m²	0,7/m²
7	Connect Angle trim, fixed at 200 mm centres	as required	as required
3	Combison XR (if required)	as required	as required
7	Combison Barrier (if required)	as required	as required
10	Connect Angle trims position upper part of Barrier panels (if required)	as required	as required
11	Connect Frieze bracket, position upper part of Barrier panels (if required)	as required	as required
	Δ Min. overall depth of system: 100 mm		-
	δ Min. demounting depth: 210 mm		-



See Quantity specification



When having double Barriers the foil should be mounted outwards.



Suspension with adjustable hanger and clip

Size, mm	load (N)	1 1 1 1
600x600x50	15	160
1200x600x50	15	160



Ecophon Combison[™] Uno A

Ecophon Combison[™] Uno A has an exposed grid system with demountable tiles. For use as a sound absorbing ceiling and for sound insulation between rooms if the partitions does not extend all the way up to the soffit. Also suitable for sound reduction of vertical noise.



SYSTEM RANGE

24	Size, mm	600x600	1200x600
24	T24	•	•
	Thickness (THK)	35	35
	Inst. Diagr.	M188	M188





Section of Combison Uno A system



Combison Uno A tile

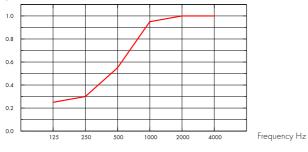
Acoustic



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.

 $lpha_{
m p}$, Practical sound absorption coefficient



– Combison Uno A 35 mm, 200 mm o.d.s.

o.d.s = overall depth of system

ТНК	o.d.s. mm		$lpha_{p'}$ Pr	actical sound	d absorption c	coefficient		α _w Sound absorption class			
mm	0.0.3. 11111	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	u.,,,,			
35	200	0.25	0.30	0.55	0.95	1.00	1.00	0.55	D		

THK mm	o.d.s. mm	NRC	SAA
35	200	0.70	0.73

тнк	D _{nfw}	R _w	CAC dB
mm	Weighted normalized flanking level difference, ISO 10848-2	Weighted sound reduction index, ISO 10140-2	Ceiling Attenuation Class, ASTM 1414, ASTM E413
35	43	27	44



Indoor Air Quality

Certificate / Label		EMISSION CLASS
French VOC	А	
Finnish M1	•	



Circularity

5	Minimum post-consumer recycled content	56%*	* this value does not take into account the plasterboard
-	Recyclability	Fully recyclable	



Fire safety

)	Country	Fire standard	Class	1
	Europe	EN 13501-1	A2-s1,d0	ſ

The glass wool core of the tiles is tested and classified as non-combustible according to EN ISO 1182.



Humidity Resistance

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



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

The weight of the system (including suspension grid) should be approximately 13 kg/m².



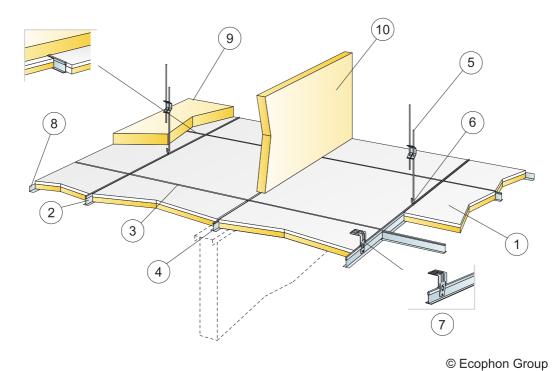
Mechanical properties

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

CE

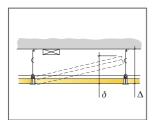
CE

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.

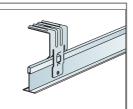


QUANTITY SPECIFICATION (EXCL. WASTAGE)

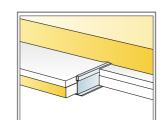
		Size, mm	
		600×600	1200×600
1	Combison Uno A	2,8/m²	1,4/m²
2	Connect T24 Main runner, installed at 1200 mm centres (max distance from wall 300 mm)	0,9m/m²	0,9m/m²
3	Connect T24 Cross tee, L=1200 mm, installed at 600 mm centres	1,7m/m²	1,7m/m²
4	Connect T24 Cross tee, L=600 mm	0,9m/m²	-
5	Connect Adjustable Hanger, installed at 1200 mm centres (max. distance from wall 600 mm)	0,7/m²	0,7/m²
6	Connect Hanger Clip (not to be used in swimming hall environments)	0,7/m²	0,7/m²
7	For direct installation: Connect Direct Bracket, installed at 1200 mm centres	0,7/m²	0,7/m²
8	Connect Angle trim, fixed at 200 mm centres	as required	as required
9	Combison XR (if required)	as required	as required
10	Combison Barrier (if required)	as required	as required
	Δ Min. overall depth of system, with adjustable hanger: 100 mm, with direct bracket: 50 mm		
	δ Min. demounting depth: 200 mm		



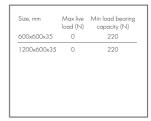
See Quantity specification



Direct bracket is secured with pop rivet or screw



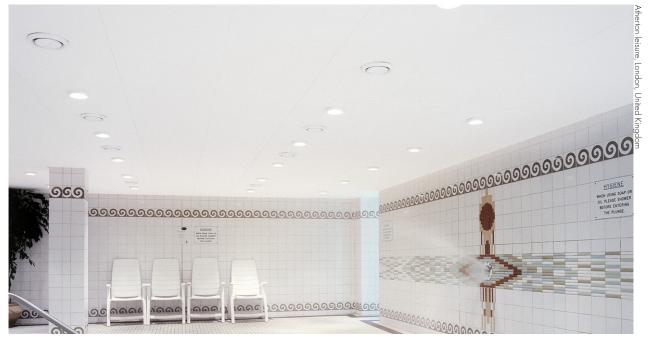
Additional absorber on top of ceiling





Ecophon Combison[™] Uno Ds

Ecophon Combison[™] Uno Ds has a concealed grid, installed in a suspended grid system with demountable tiles. For use as a sound absorbing ceiling and for sound insulation between rooms if the partitions do not extend all the way up to the soffit. Also suitable for sound reduction of vertical noise.



SYSTEM RANGE

	Size, mm	600x600
4	T24	•
	Thickness (THK)	35
	Inst. Diagr.	M241



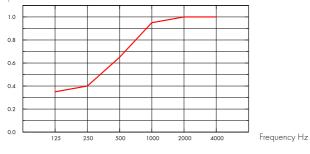
Acoustic



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.

 $lpha_{_{D'}}$ Practical sound absorption coefficient



- Combison Uno Ds 35 mm, 200 mm o.d.s.

o.d.s = overall depth of system

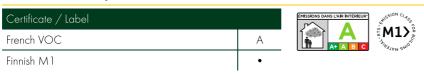
ТНК	o.d.s. mm		$lpha_{p'}$ Pr	actical sound	d absorption c	oefficient		α	Sound absorption class
mm	0.0.5. 11111	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	. u. _w	
35	200	0.35	0.40	0.65	0.95	1.00	1.00	0.65	С

THK mm	o.d.s. mm	NRC	SAA
35	200	0.75	0.75

ТНК	D _{nfw}	R _w
mm	Weighted normalized flanking level difference, ISO 10848-2	Weighted sound reduction index, ISO 10140-2
30	41	28



Indoor Air Quality





Circularity

Minimum post-consumer recycled content	56%*	* this value does not take into account the plasterboard
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 A, relative humidity 70% and 25°C, according to EN 13964:2014



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

The weight of the system (including suspension grid) should be approximately 13 kg/m².

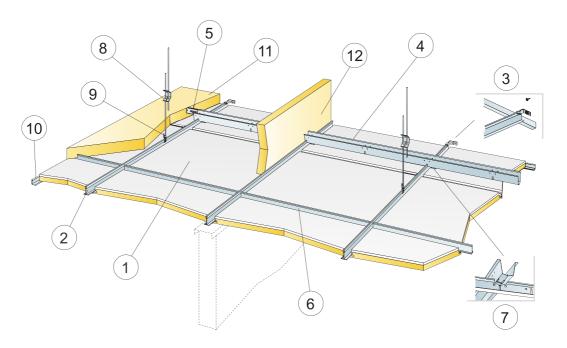


Mechanical properties

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

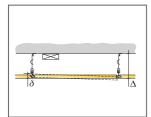
CE

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.

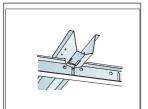


© Ecophon Group

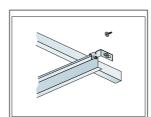
QUANTITY SPECIFICATION (EXCL. WASTAGE)	
	Size, mm
	600×600
1 Combison Uno Ds	2,8/m²
2 Connect T24 Main Runner HD, installed at 600 mm centres	1,7m/m²
3 Connect Wall Bracket for T-profiles	1/suspended row of Main runner
4 Connect Space Bar, installed at 1500 mm centres (max. distance from wall 300 mm)	0,7m/m²
5 Connect Wall Bracket, L=700 mm, for Connect Space Bar	1/row of Space bar
5 Connect T24 Cross Tee, L=600 mm	2/row of Main runner
Connect Space Bar Winch, installed one per joint Connect Main Runner/Connect Space Bar	1,4/m²
3 Connect Adjustable Hanger, installed at 1200 mm centres (max. distance from wall 600 mm). Main Runners resting on partition walls don't need hangers.	0,7/m²
Connect Hanger Clip (not to be used in swimming hall environments)	0,7/m²
10 Connect Angle trim, fixed at 200 mm centres	as required
11 Combison XR (if required)	as required
12 Combison Barrier (if required)	as required
Δ Min. overall depth of system: 115 mm	
δ Min. demounting depth: 40 mm	



See Quantity specification



Connection between profiles with space bar winch



Connect Wall bracket for T-profiles

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

 600x600x35
 0
 220



Ecophon Combison[™] Duo A

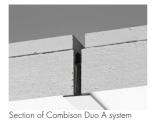
Ecophon Combison™ Duo A has an exposed grid system with demountable tiles. For use as a suspended ceiling with high sound absorption and for sound insulation between rooms if the partitions do not extend all the way up to the soffit. Also suitable for sound reduction of vertical noise.



SYSTEM RANGE

	Size, mm	600x600
24	T24	•
	Thickness (THK)	55
	Inst. Diagr.	M85







Combison Duo A tile

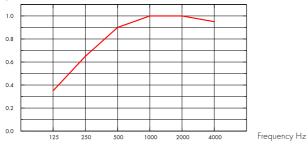
Acoustic



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.

 $lpha_{
m p}$, Practical sound absorption coefficient



– Combison Duo A 54 mm, 200 mm o.d.s.

o.d.s = overall depth of system

ТНК	o.d.s. mm		$lpha_{p'}$ Pr	actical sound	d absorption c	oefficient		α	Sound absorption class
mm	0.0.5. 11111	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	α_{w}	
54	200	0.35	0.65	0.90	1.00	1.00	0.95	0.90	A

THK mm	o.d.s. mm	NRC	SAA
54	400	0.90	0.90

тнк	AC(1.5)	D _{nfw}	R _w	CAC dB
mm	Articulation Class, ASTM E1111, ASTM E1110	Weighted normalized flanking level difference, ISO 10848-2	Weighted sound reduction index, ISO 10140-2	Ceiling Attenuation Class, ASTM 1414, ASTM E413
55	190	43	32	44



Indoor Air Quality





Circularity

5	Minimum post-consumer recycled content	62%*	* this value does not take into account the plasterboard
-	Recyclability	Fully recyclable	



Fire safety

)	Country	Fire standard	Class	1
	Europe	EN 13501-1	A2-s1,d0	ſ

The glass wool core of the tiles is tested and classified as non-combustible according to EN ISO 1182.



Humidity Resistance

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



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

The weight of the system (including suspension grid) should be approximately 14 kg/m².



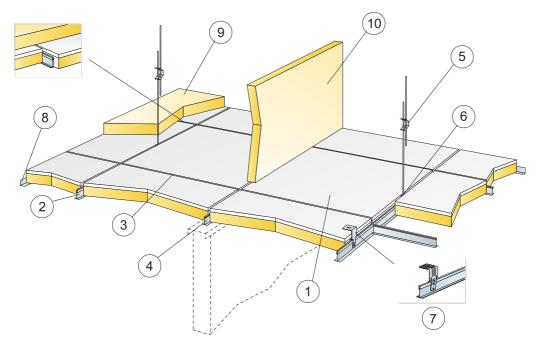
Mechanical properties

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

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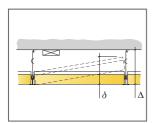
CE

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.



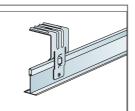
© Ecophon Group

		Size, mm
		600×600
1	Combison Duo A	2,8/m²
2	Connect T24 Main runner, installed at 1200 mm centres (max distance from wall 300 mm)	0,9m/m²
3	Connect T24 Cross tee, L=1200 mm, installed at 600 mm centres	1,7m/m²
4	Connect T24 Cross tee, L=600 mm	0,9m/m²
5	Connect Adjustable Hanger, installed at 1200 mm centres (max. distance from wall 600 mm)	0,7/m²
6	Connect Hanger Clip (not to be used in swimming hall environments)	0,7/m²
7	For direct installation: Connect Direct Bracket, installed at 1200 mm centres	0,7/m²
8	Connect Angle trim, fixed at 200 mm centres	as required
9	Combison XR (if required)	as required
10	Combison Barrier (if required)	as required
	Δ Min. overall depth of system, with Adjustable hanger: 100 mm, with Direct bracket: 80 mm	
	$m{\delta}$ Min, demounting depth: 220 mm	

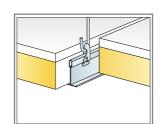


QUANTITY SPECIFICATION (EXCL. WASTAGE)

See Quantity specification



Direct bracket is secured with pop rivet or screw



Suspension with adjustable hanger and clip

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

 600x600x55
 0
 220



Ecophon Combison[™] Duo E

Ecophon Combison[™] Duo E has a recessed visible grid and a tegular edge design, creating a ceiling with a shadow effect. For use as a suspended ceiling with high sound absorption and for sound insulation between rooms if the partitions do not extend all the way up to the soffit.



SYSTEM RANGE

L, IS	Size, mm	600x600
1~9	T24	•
	Thickness (THK)	55
	Inst. Diagr.	M86





Combison Duo E tile

Acoustic

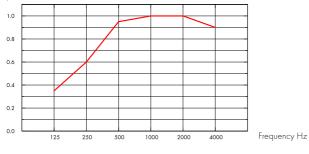


Sound Absorption:

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.

Combison Duo E system

 $lpha_{
m p\prime}$ Practical sound absorption coefficient



– Combison Duo E 54 mm, 200 mm o.d.s.

o.d.s = overall depth of system

ТНК	o.d.s. mm		$lpha_{p'}$ Pr	actical sound	d absorption c	oefficient		α	Sound absorption class
mm	0.0.3. 11111	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	α_{w}	
54	200	0.35	0.60	0.95	1.00	1.00	0.90	0.90	A

THK mm	o.d.s. mm	NRC	SAA
54	400	0.90	0.89

тнк	AC(1.5)	D _{nfw}	R _w
mm	Articulation Class, ASTM E1111, ASTM E1110	Weighted normalized flanking level difference, ISO 10848-2	Weighted sound reduction index, ISO 10140-2
55	190	39	33



Indoor Air Quality

Certificate / Label		ÉMISSIONS DANS L'AIR INTÉRIEUR	UNSSION CLAUS
French VOC	А		M1>
Finnish M1	•		



Circularity

5	Minimum post-consumer recycled content	61%*	* this value does not take into account the plasterboard
-	Recyclability	Fully recyclable	



Fire safety

)	Country	Fire standard	Class	٦
	Europe	EN 13501-1	A2-s1,d0	r

The glass wool core of the tiles is tested and classified as non-combustible according to EN ISO 1182.



Humidity Resistance

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



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

The weight of the system (including suspension grid) should be approximately 14 kg/m².



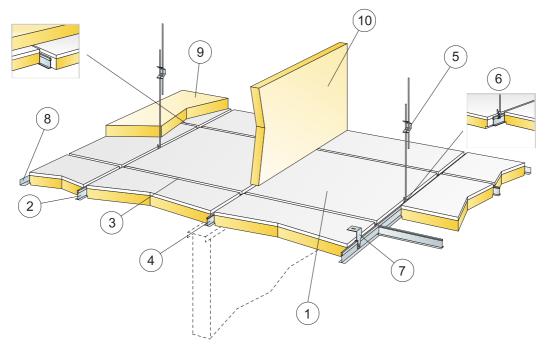
Mechanical properties

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

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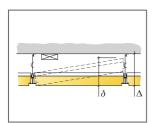
CE

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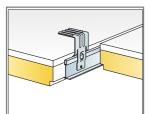
© Ecophon Group

		Size, mm
		600×600
1	Combison Duo E	2,8/m²
2	Connect T24 Main runner, installed at 1200 mm centres (max distance from wall 300 mm)	0,9m/m²
3	Connect T24 Cross tee, L=1200 mm, installed at 600 mm centres	1,7m/m²
4	Connect T24 Cross tee, L=600 mm	0,9m/m²
5	Connect Adjustable Hanger, installed at 1200 mm centres (max. distance from wall 600 mm)	0,7/m²
6	Connect Hanger Clip (not to be used in swimming hall environments)	0,7/m²
7	For direct installation: Connect Direct Bracket, installed at 1200 mm centres	0,7/m²
8	Connect Angle trim, fixed at 200 mm centres	as required
9	Combison XR (if required)	as required
10	Combison Barrier (if required)	as required
	Δ Min. overall depth of system, with Adjustable hanger: 110 mm, with Direct bracket: 90 mm	
	δ Min. demounting depth: 230 mm	

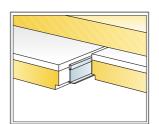


QUANTITY SPECIFICATION (EXCL. WASTAGE)

See Quantity specification



Direct bracket is secured with pop rivet or screw



Max live Min load bearing load (N) capacity (N) 0 220 600x600x55 0

Size, mm

Additional absorber on top of ceiling

Ecophon Combison XR

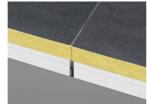
Ecophon Combison™ XR is a complementary product that is installed horisontally on top of the Combison ceiling tiles, to increase the sound reduction level between rooms. The product should cover as much of the ceiling surface as possible for the best acoustic performance.



© Saint-Gobain Ecophon AB

Ecophon Combison XR, 2024-03-28





Combison XR system

Acoustic



Addition of Combison XR on top of Ecophon Combison ceiling systems will give increased insulation properties. For detailed information please see corresponding systems for Combison.

Product	D _{nfw} Weighted normalized flanking level difference, ISO 10848-2
+ 2 x 1200 XR	+ 3
+ 100% XR	+ 6



Circularity

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

Not applicable.



Cleanability

Not applicable.



Accessibility

The tiles are demountable.



Installation

Installed according to installation diagrams, installation guides and drawing aid.

۶۲ kg

Mechanical properties

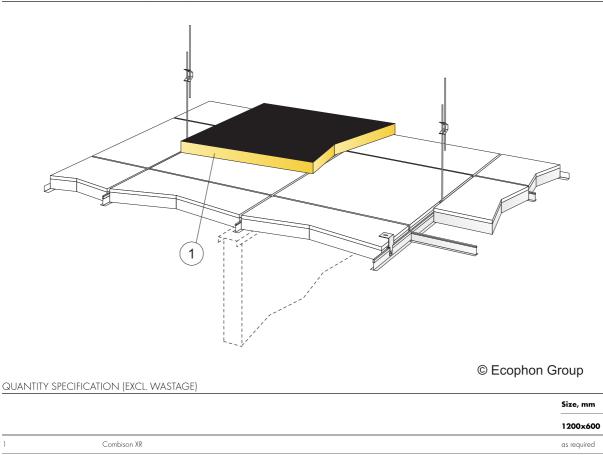


CE

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.

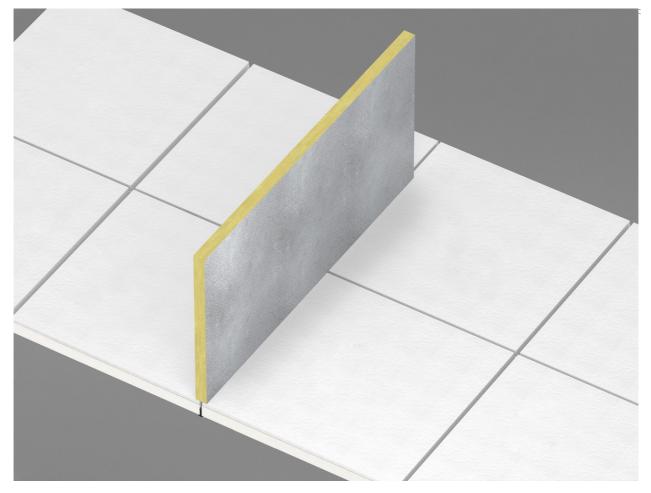
INSTALLATION DIAGRAM (M440) FOR ECOPHON COMBISON XR



Size, mm Max live Min load bearing load (N) capacity (N) 1200x600x50 0 -

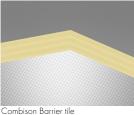
Ecophon Combison[™] Barrier

Ecophon Combison™ Barrier is an acoustic panel that is vertically installed above partitions in the plenum. Creates a sound barrier to improve the room to room sound insulation. Combison Barrier should be used together with other Ecophon systems for best acoustic performance.



SYSTEM RANGE

Size, mm	1200x600
Direct	•
Thickness (THK)	40
Inst. Diagr.	M160







Acoustic

For use as acoustic barrier above partitions in plenum to improve the room to room sound insulation. The Combison Barrier should be used together with other Ecophon systems.



Circularity

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

Not applicable. The panel has aluminium foil on one side.



Cleanability

Not applicable



Accessibility

The tiles are demountable.



Installation

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



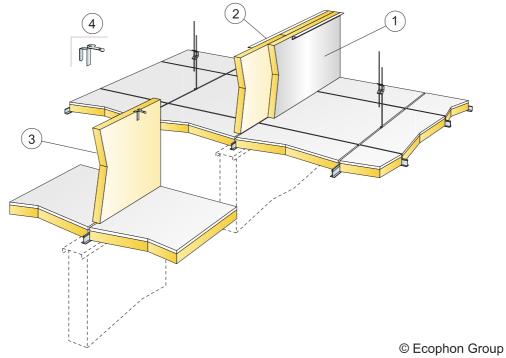
Mechanical properties

No additional live load is allowed.



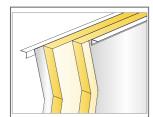
Ecophon ceiling systems are CE marked according to the European harmonized standard EN13964:2014. CE marked construction products are covered by a Declaration of Performance (DOP) which enables customers and users to easily compare performance of products available on the European market.

CE



QUANTITY SPECIFICATION (EXCL. WASTAGE)

		Size, mm
		1200×600
1	Combison Barrier in double layers with displaced joints and exposed alu-foil side	as required
2	Connect Angle trims position upper part of Barrier panels	as required
3	Combison Barrier in single layer	as required
4	Connect Frieze bracket, position upper part of Barrier panels	as required



Double layers of Combison Barrier with Connect Angle trim

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

Ecophon Combison™ A, CAC 35

Ecophon Combison[™] is the fastest and easiest way to combine features for both sound absorption and sound insulation between rooms. Ideal for installations where the partitions do not extend all the way up to the soffit. Combison can also help to reduce vertical noise from floor to floor. The panel is easy to handle, install and demount and it has a visible grid system. It is made from crimped glass fibre and has an Akutex FT surface on the front.





25	Size, mm	600x600	625x625	1200x600	1250x625
	Т24	•	•	•	•
	Thickness (THK)	25	25	25	25
	Inst. Diagr.	M528	M528 DIN	M528	M528 DIN



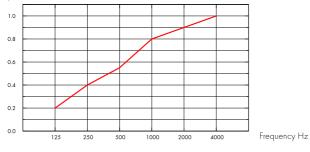
Acoustic



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.

 $lpha_{
m p\prime}$ Practical sound absorption coefficient



- Combison CAC35, 200 mm o.d.s.

o.d.s = overall depth of system

ТНК	o.d.s. mm		$lpha_{_{ m p}\prime}$ Practical sound absorption coefficient						Sound absorption class
mm	0.0.3. 11111	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	α_{w}	
25	200	0.20	0.40	0.55	0.80	0.90	1.00	0.80	В

THK mm	o.d.s. mm	NRC	SAA
25	200	0.80	0.82

ТНК	D _{nfw}	CAC dB
mm	Weighted normalized flanking level difference, ISO 10848-2	Ceiling Attenuation Class, ASTM 1414, ASTM E413
25	34	35



Indoor Air Quality

Certificate / Label	Standard	
French VOC	А	



Circularity

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



Visual appearance

Akutex FT: White Frost, nearest NCS colour sample \$ 0500-N, 85% light reflectance. Gloss < 1. For more info see Colours and surfaces.



Cleanability

Akutex FT: Daily dusting and vacuum cleaning. Weekly wet wiping. For more info see Colours and surfaces.



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 7 kg/m^2 .

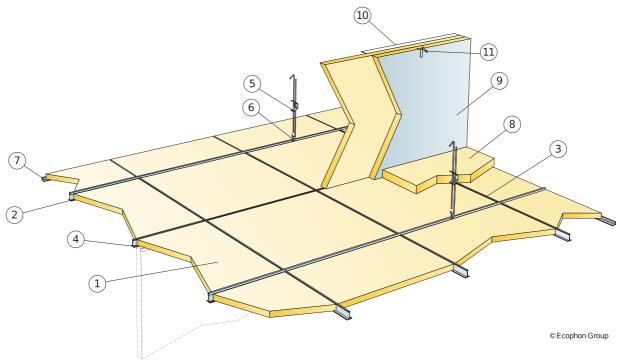


Mechanical properties

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

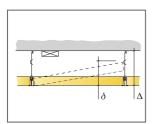
CE

Ecophon ceiling systems are CE marked according to the European harmonized standard 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.

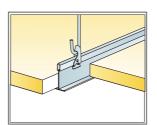


QUANTITY SPECIFICATION (EXCL. WASTAGE)

		Size, mm	
		600x600	1200×600
1	Combison A, CAC 35	2,8/m²	1,4/m²
2	Connect T24 Main runner, installed at 1200 mm centres (max distance from wall 300 mm)	0,9m/m²	0,9m/m²
3	Connect T24 Cross tee, L=1200 mm, installed at 600 mm centres	1,7m/m²	1,7m/m²
4	Connect T24 Cross tee, L=600 mm	0,9m/m²	
5	Connect Adjustable Hanger, installed at 1200 mm centres (max. distance from wall 600 mm)	0,7/m²	0,7/m²
6	Connect Hanger Clip (not to be used in swimming hall environments)	0,7/m²	0,7/m²
7	Connect Angle trim, fixed at 200 mm centres	as required	as required
3	Combison XR (if required)	as required	as required
7	Combison Barrier (if required)	as required	as required
10	Connect Angle trims position upper part of Barrier panels (if required)	as required	as required
11	Connect Frieze bracket, position upper part of Barrier panels [if required]	as required	as required
	Δ Min. overall depth of system: 100 mm	-	
	δ Min. demounting depth: 210 mm	-	



See Quantity specification

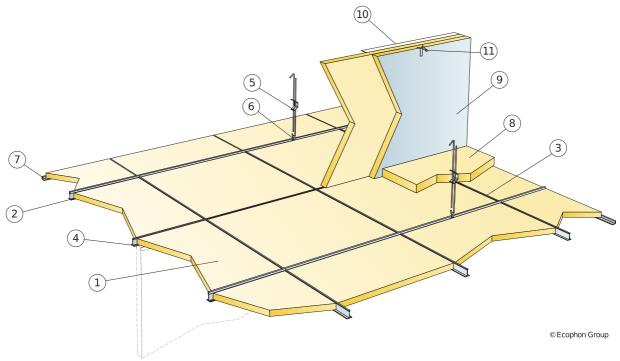


Suspension with adjustable hanger and clip

Size, mm	Max live load (N)	
600x600x25	15	160
1200x600x25	15	160

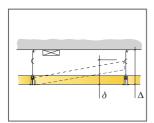
M528 DIN

INSTALLATION DIAGRAM (M528 DIN) FOR ECOPHON COMBISON A, CAC 35

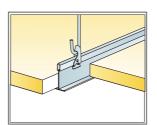


QUANTITY SPECIFICATION (EXCL. WASTAGE)

		Size, mm	
		625×625	1250x625
1	Combison A, CAC 35	2,6/m²	1,3/m²
2	Connect T24 Main Runner, installed at 1250 mm centres for DIN (only white profiles)	0,8m/m²	0,8m/m²
3	Connect T24 or T15 Cross Tee, L=1250 mm, installed at 625 mm centres	1,6m/m²	1,6m/m²
4	Connect T24 or T15 Cross Tee, L=625 mm	0,8m/m²	
5	Connect Adjustable Hanger, installed at 1250 mm centres (max. distance from wall 600 mm)	0,7/m²	0,7/m²
6	Connect Hanger Clip (not to be used in swimming hall environments)	0,7/m²	0,7/m²
7	Connect Angle trim, fixed at 200 mm centres	as required	as required
8	Combison XR (if required)	as required	as required
9	Combison Barrier (if required)	as required	as required
10	Connect Angle trims position upper part of Barrier panels (if required)	as required	as required
11	Connect Frieze bracket, position upper part of Barrier panels (if required)	as required	as required
	Δ Min. overall depth of system: 100 mm	-	
	δ Min. demounting depth: 210 mm	-	



See Quantity specification



Suspension with adjustable hanger and clip

Size, mm	Max live load (N)	Min load bearing capacity (N)
625×625×25	-	÷
1250x625x25	-	-

Ecophon Combison™ E, CAC 35

Ecophon Combison™ is the fastest and easiest way to combine features for both sound absorption and sound insulation between rooms. Ideal for installations where the partitions do not extend all the way up to the soffit. Combison can also help to reduce vertical noise from floor to floor. The panel is easy to handle, install and demount and it has a visible grid system. It is made from crimped glass fibre and has an Akutex FT surface on the front.



SYSTEM RANGE

<u>10</u> 22	Size, mm	600x600	625x625	1200x600	1250x625
	Т24	•	•	•	•
	Thickness (THK)	25	25	25	25
	Inst. Diagr.	M530	M530 DIN	M530	M530 DIN



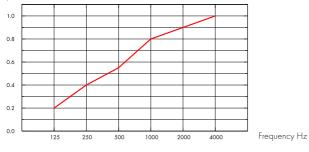
Acoustic



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.

 $lpha_{
m p\prime}$ Practical sound absorption coefficient



- Combison CAC35, 200 mm o.d.s.

o.d.s = overall depth of system

THK mm	o.d.s. mm	$lpha_{ m p^\prime}$ Practical sound absorption coefficient					- α _w	Sound absorption class	
	0.0.5. 11111	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	~~ _W	
25	200	0.20	0.40	0.55	0.80	0.90	1.00	0.80	В

THK mm	o.d.s. mm	NRC	SAA
25	200	0.80	0.82

ТНК	D _{nfw}	CAC dB
mm	Weighted normalized flanking level difference, ISO 10848-2	Ceiling Attenuation Class, ASTM 1414, ASTM E413
25	34	35



Indoor Air Quality

\sim	Certificate / Label	Standard	
	French VOC	А	



Circularity

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



Visual appearance

Akutex FT: White Frost, nearest NCS colour sample \$ 0500-N, 85% light reflectance. Gloss < 1. For more info see Colours and surfaces.



Cleanability

Akutex FT: Daily dusting and vacuum cleaning. Weekly wet wiping. For more info see Colours and surfaces.



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 7 kg/m².

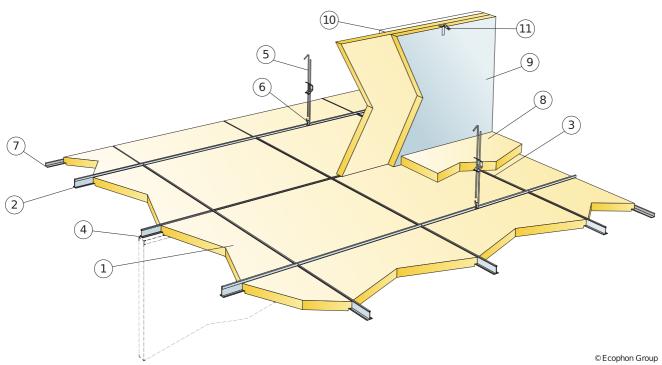


Mechanical properties

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

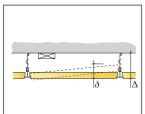
CE

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.



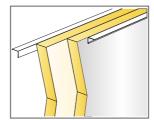
QUANTITY SPECIFICATION (EXCL. WASTAGE)

Size, mm 600x600 1200×600 1 Combison E, CAC 35 2,8/m² 1,4/m² 2 0,9m/m² Connect T24 Main runner, installed at 1200 mm centres (max distance from wall 300 mm) 0.9m/m² 3 Connect T24 Cross tee, L=1200 mm, installed at 600 mm centres 1,7m/m² 1,7m/m² Connect T24 Cross tee, L=600 mm 4 $0,9m/m^2$ 5 Connect Adjustable Hanger, installed at 1200 mm centres (max. distance from wall 600 mm) $0,7/m^{2}$ 0,7/m² 6 Connect Hanger Clip (not to be used in swimming hall environments) $0,7/m^2$ $0,7/m^2$ 7 Connect Angle trim, fixed at 200 mm centres as required as required 8 Combison XR (if required) as required as required 9 Combison Barrier (if required) as required as required 10 Connect Angle trims position upper part of Barrier panels (if required) as required as required 11 Connect Frieze bracket, position upper part of Barrier panels (if required) as required as required Δ Min. overall depth of system: 100 mm δ Min. demounting depth: 210 mm



See Quantity specification

Cutting tool E

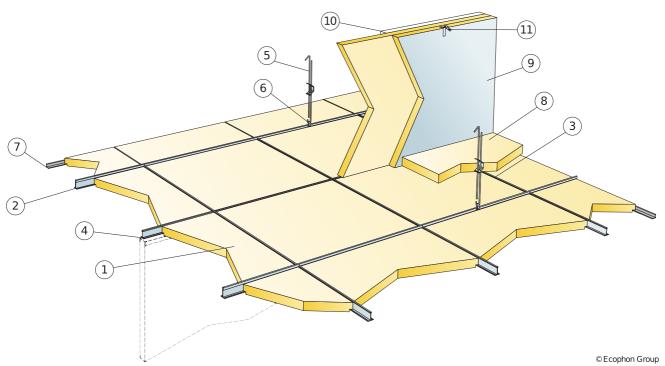


When having double Barriers the foil should be mounted outwards.

Size, mm	Max live load (N)	Min load bearing capacity (N)
600x600x25	15	160
1200x600x25	15	160

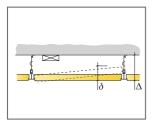
M530 DIN

INSTALLATION DIAGRAM (M530 DIN) FOR ECOPHON COMBISON E, CAC 35



QUANTITY SPECIFICATION (EXCL. WASTAGE)

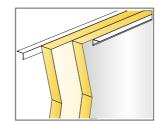
Size, mm 625x625 1250x625 1 Combison E, CAC 35 2,6/m² 1,3/m² 2 Connect T24 Main Runner, installed at 1250 mm centres for DIN (only white profiles) 0,8m/m² 0.8m/m² 3 Connect T24 or T15 Cross Tee, L=1250 mm, installed at 625 mm centres 1,6m/m² 1,6m/m² 4 Connect T24 or T15 Cross Tee, L=625 mm 0,8m/m² 5 Connect Adjustable Hanger, installed at 1250 mm centres (max. distance from wall 600 mm) 0,7/m² 0,7/m² 6 Connect Hanger Clip (not to be used in swimming hall environments) $0,7/m^2$ $0,7/m^2$ 7 Connect Angle trim, fixed at 200 mm centres as required as required 8 Combison XR (if required) as required as required 9 Combison Barrier (if required) as required as required 10 Connect Angle trims position upper part of Barrier panels (if required) as required as required 11 Connect Frieze bracket, position upper part of Barrier panels (if required) as required as required Δ Min. overall depth of system: 100 mm δ Min. demounting depth: 210 mm



AND

See Quantity specification

Cutting tool E



When having double Barriers the foil should be mounted outwards.

