

# Ecophon Akusto™ Wall Edge

Ecophon Akusto<sup>TM</sup> Wall A has an exposed profile system with a variety of surface options. This wall absorber pairs with a sound absorbing ceiling to achieve excellent acoustic properties in the room.



### SYSTEM RANGE

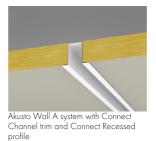


Size, mm	2700×1200
	27 0001 200
Channel trim	•
Thinline Profile	•
Thickness	40
Inst. Diagr.	M353, M504, M593, M595



Akusto Wall A system with Connect Channel trim and Connect T24 Main

runner





Akusto Wall system with Connect Thinline profiles

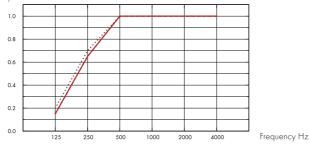
#### Acoustic



## **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



···· Akusto Wall A Akutex FT 40 mm, 43 mm o.d.s.

- Akusto Wall A Texona 40 mm, 43 mm o.d.s.
- --- Akusto Wall A Super G 40 mm, 43 mm o.d.s.
- o.d.s = overall depth of system

	тнк	IK o.d.s. mm					αw	Sound absorption class		
	mm	0.0.5. mm	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	~~ <sub>w</sub>	
Akutex FT	40	43	0.20	0.70	1.00	1.00	1.00	1.00	1.00	A
Texona	40	43	0.15	0.65	1.00	1.00	1.00	1.00	1.00	A
Super G	40	43	0.15	0.65	1.00	1.00	1.00	1.00	0.95	A

ТНК	AC(1.5)
mm	Articulation Class, ASTM E1111, ASTM E1110
40	230



# **Indoor Air Quality**

Certificate / Label		SOR AIR COMPORT	ÉMISSIONS DANS L'AIR INTÉRIEUR
Eurofins Indoor Air Comfort®	IAC Gold	RANGED PRODUCT	
French VOC	A+		



Carroll cradie to cradie

# Cradle to Cradle Certified®

Akusto products with Akutex FT surface are Cradle to Cradle Certified® at Bronze level (version 4.0).



#### **Material Health**

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Akusto products with Akutex FT surface have 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.



# **Carbon footprint**

	kg CO2 equiv/m²	Life-cycle stages A1 to C4 from EPD, in conformity with ISO 14025 / EN 15804
Akusto Wall A - Texona	4,74 (Akusto Wall A EPD in conformity with ISO 14025 / EN 15804)	
Akusto Wall A - Akutex FT	3,96 (Akusto Wall A EPD in conformity with ISO 14025 / EN 15804)	
Akusto Wall A - Super G	6,21 (Akusto Wall A EPD in conformity with ISO 14025 / EN 15804)	



### Circularity

Minimum post-consumer recycled content	53%
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**

Class C, relative humidity 95% and 30°C, according to EN 13964:2014



# Visual appearance

Akusto Wall in white has high light reflectance. Light reflectance and nearest NCS colour sample for all the different colours: See Ecophon Colours and surfaces.



# Cleanability

Daily dusting, vacuum cleaning and weekly wet wiping (Super G and Akutex FT surfaces). Weekly dusting and vacuum cleaning (Texona surface) as required.



# Use of disinfectants

Texona Ginger, Sea salt, Thyme, Oyster and Garlic withstand the frequent use of ethanol (70%)-based disinfectants. Dampen a soft polyester microfiber cloth with the solution and wipe the surface in gentle circular movements.



# Accessibility

The tiles are not demountable except in selected installation diagrams. See quantity specification for more information.



## Installation

Installed according to installation diagrams, installation guides and drawing aid. For information regarding minimum overall depth of system see quantity specification. The systems should not be placed behind goals or similar areas where they are likely to be hit regularly. In such cases a protective net in front of the system is recommended.



### System weight

	kg/m²
Akusto Wall A/Akutex FT	2,5
Akusto Wall A/Texona	2,5
Akusto Wall A/Super G	2,7

Weight information is indicative and subject to variation.



# **Mechanical properties**

No additional live load is allowed.



# Impact Resistance

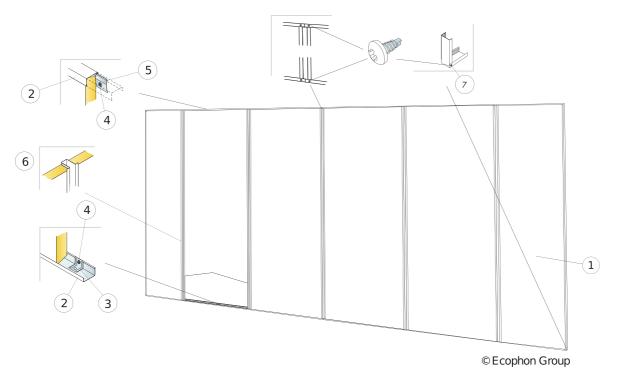
Surface	M-sketch	Classification
Super G	M353	Fulfills

Tested and classified to fulfil the requirements of DIN 18032-3, equivalent to 1A according to EN13964. Texona surface has moderate impact resistance. Please note: Where the panels are subjected to frequent blows and impacts e.g. behind goal mouths, protection in form of e.g restraining nets or wooden slats is required.

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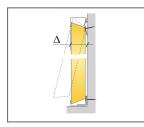
CE

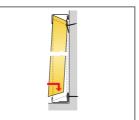
Ecophon ceiling systems are CE marked according to the European harmonized standard EN13964:2014. CE marked construction products are covered by a Declaration of Performance (DOP) which enables customers and users to easily compare performance of products available on the European market.



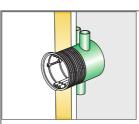
### QUANTITY SPECIFICATION (EXCL. WASTAGE)

	Size, mm
	2700×1200
1 Ecophon Akusto Wall A/Super G	0,31/m²
2 Connect Channel trim, fixed at 300 mm centres. Connect Direct fixing plate is placed inside at each fixing point if the panel is not supported by the floor.	as required
3 Connect Direct fixing plate	as required
Connect Installation screw MVL (for use in plasterboard or timber)	as required
Connect Fixing bracket, fixed at 400 mm centres.	as required
Connect Recessed profile plus	as required
Connect Installation screw BR (2000 pcs)	as required
$\Delta$ Min. overall depth of system: 44 mm	-





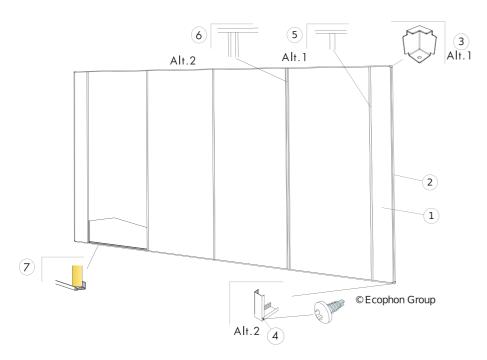
Detail of installation



Accesories for adjusting electrical installations are available in electricity retail stores

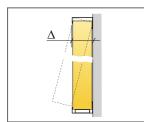
Size, mm Max live Min load bearing load {N} capacity {N} 2700x1200x40 0 -

# INSTALLATION DIAGRAM (M504) FOR ECOPHON AKUSTO WALLA



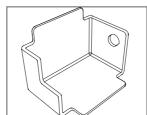
QUANTITY SPECIFICATION (EXCL. WASTAGE)

	Size, mm
	2700×1200
Ecophon Akusto Wall A	0,31/m²
Connect Channel trim, fixed at 300 mm centres. Connect Direct fixing plate is placed inside at each fixing point if the panel is not supported by the floor.	as required
Alt. 1 Connect Channel trim corner	as required
Alt. 2 Connect Installation screw BR	as required
Alt. 1 Connect T24 Main runner, (Installation: kept in position with the Channel trims)	as required
Alt.1 Connect Recessed profile, (Installation: kept in position with the Channel trims)	as required
Connect WP Space bar, l=2400 mm	as required
$\Delta$ Min. overall depth of system: 44 mm	-
Connect Installation screw MVL [for use in plasterboard or timber]	as required



See Quantity specification

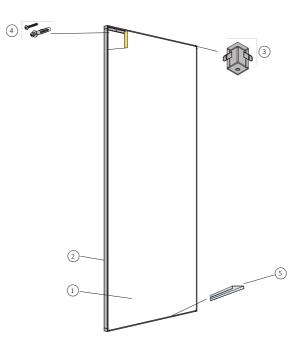




Connect Channel trim corner for 44mm profile

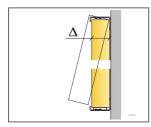
Max live Min load bearing load (N) capacity (N) Size, mm 2700x1200x40

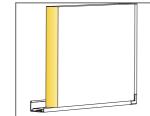
INSTALLATION DIAGRAM (M593) FOR ECOPHON AKUSTO WALL A VERTICAL INSTALLATION WITH CONNECT THINLINE PROFILES.



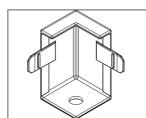
#### QUANTITY SPECIFICATION (EXCL. WASTAGE)

Size, mm 2700×1200 Ecophon Akusto Wall A 0,31/m<sup>2</sup> 2 Connect Thinline Profile, L=2658 mm as required 3 Connect Thinline Corner as required 4 Installation screw, installed at 400 mm centres (select fastener according to wall material) as required 5 Connect Thinline Space Bar as required  $\Delta$  Overall depth of system: 45 mm





Detail of panel with Thinline frame

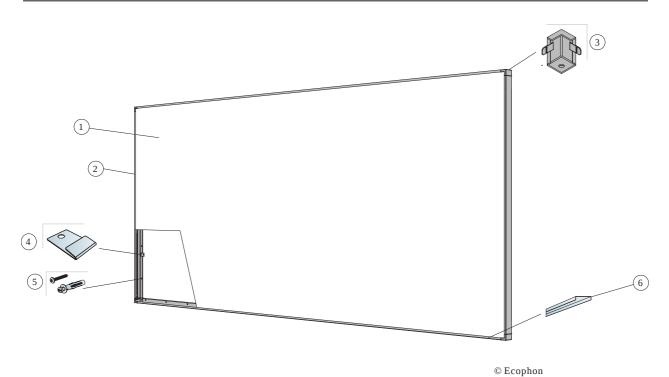


© Ecophon

Detail of Thinline corner

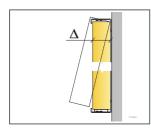
Size, mm Max live Min load bearing load [N] capacity [N] 2700x1200x40

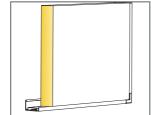
# INSTALLATION DIAGRAM (M595) FOR ECOPHON AKUSTO WALL A HORIZONTAL INSTALLATION WITH CONNECT THINLINE PROFILES.



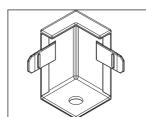
#### QUANTITY SPECIFICATION (EXCL. WASTAGE)

	Size, mm
	2700×1200
Ecophon Akusto Wall A	0,31/m²
Connect Thinline Profile, L=2658 mm	as required
Connect Thinline Corner	as required
Connect Thinline Locking Clip	as required
Installation screw, installed at 400 mm centres (select fastener according to wall material)	as required
Connect Thinline Space Bar	as required
Δ Overall depth of system: 45 mm	
-	Connect Thinline Profile, L=2658 mm Connect Thinline Corner Connect Thinline Locking Clip Installation screw, installed at 400 mm centres (select fastener according to wall material) Connect Thinline Space Bar





Detail of panel with Thinline frame



Detail of Thinline corner

Size, mm Max live Min load bearing load {N capacity [N} 2700x1200x40



# Ecophon Akusto™ Wall Edge

Ecophon Akusto<sup>™</sup> Wall C has a concealed grid and bevelled edge to create a narrow groove between each panel. Available in a variety of surface options. Excellent room acoustic properties are achieved when this wall absorber is paired with a sound absorbing ceiling.



#### SYSTEM RANGE

L L

	Size, mm			
40		2700x600		
	Thinline Profile	•		
	WP Profile	•		
	Thickness	40		
	Inst. Diagr.	M609, M354, M355, M592		





Section of Akusto Wall C System



Akusto Wall C system with Connect WP profile and external corner



Wall Panel C system with Connect WP profile and external corner

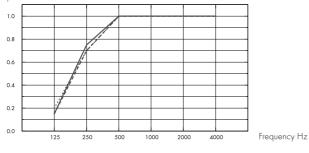
# Acoustic



#### **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



···· Akusto Wall C Akutex FT 40 mm, 45 mm o.d.s.

- Akusto Wall C Texona 40 mm, 45 mm o.d.s.
- --- Akusto Wall C Super G 40 mm, 45 mm o.d.s.
- o.d.s = overall depth of system

	THK o.d.s. mm		$lpha_{_{P'}}$ Practical sound absorption coefficient					$\alpha_{w}$	Sound absorption class	
	mm	n 0.0.3. mm	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz		
Akutex FT	40	45	0.20	0.70	1.00	1.00	1.00	1.00	1.00	A
Texona	40	45	0.15	0.75	1.00	1.00	1.00	1.00	1.00	A
Super G	40	45	0.15	0.70	1.00	1.00	1.00	1.00	1.00	A

	THK mm	o.d.s. mm	NRC	SAA
Texona	40	45	0.95	0.96
Super G	40	45	0.95	0.96

ТНК	AC(1.5)
mm	Articulation Class, ASTM E1111, ASTM E1110
40	240



# **Indoor Air Quality**

Certificate / Label		SOR AIR COMPOS	
Eurofins Indoor Air Comfort®	IAC Gold	RA GOLD AS	
French VOC	A+		



## Cradle to Cradle Certified®

full scope create to create box 2 works 0

Akusto products with Akutex FT surface are Cradle to Cradle Certified® at Bronze level (version 4.0).

# $\bigcirc$

# **Material Health**

Akusto products with Akutex FT surface have 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.



# **Carbon footprint**

)*		kg CO2 equiv/m²	Life-cycle stages A1 to C4 from EPD, in conformity with ISO 14025 / EN 15804
	Akusto Wall C - Texona	6,18 (Akusto Wall C EPD in conformity with ISO 14025 / EN 15804)	
	Akusto Wall C - Akutex FT	6,42 (Akusto Wall C EPD in conformity with ISO 14025 / EN 15804)	
	Akusto Wall C - Super G	7,28 (Akusto Wall C EPD in conformity with ISO 14025 / EN 15804)	



# Circularity

Minimum post-consumer recycled content	60%
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**

Class C, relative humidity 95% and 30°C, according to EN 13964:2014



# Visual appearance

Akusto Wall in white has high light reflectance. Light reflectance and nearest NCS colour sample for all the different colours: See Ecophon Colours and surfaces.



# Cleanability

Daily dusting, vacuum cleaning and weekly wet wiping (Super G and Akutex FT surface). Weekly dusting and vacuum cleaning (Texona) as required.



# Use of disinfectants

Texona Ginger, Sea salt, Thyme, Oyster and Garlic withstand the frequent use of ethanol (70%)-based disinfectants. Dampen a soft polyester microfiber cloth with the solution and wipe the surface in gentle circular movements.



# Accessibility

The tiles are not demountable except in selected installation diagrams. See quantity specification for more information.



## Installation

Installed according to installation diagrams, installation guides and drawing aid. For information regarding minimum overall depth of system see quantity specification. The systems should not be placed behind goals or similar areas where they are likely to be hit regularly. In such cases a protective net in front of the system is recommended.



### System weight

	kg/m²
Akusto Wall C/Akutex FT	3,5
Akusto Wall C/Texona	3,5
Akusto Wall C/Super G	3,7

Weight information is indicative and subject to variation.



# **Mechanical properties**

No additional live load is allowed.



### **Impact Resistance**

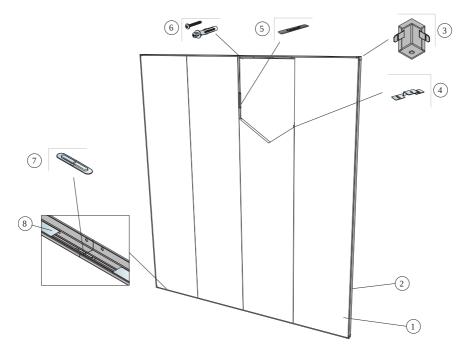
Surface	M-sketch	Classification	Tested and classified to fulfil the requirements of DIN 18032- 3, equivalent to 1A according to EN13964
Super G	M354	Fulfills	

# 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.

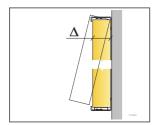
INSTALLATION DIAGRAM (M609) FOR ECOPHON AKUSTO WALL C VERTICAL INSTALLATION WITH CONNECT THINLINE PROFILES.

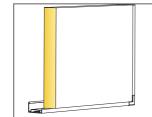


© Ecophon

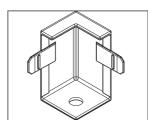
QUANTITY SPECIFICATION (EXCL. WASTAGE)

		Size, mm
		2700×600
1	Akusto Wall C	0,62/m²
2	Connect Thinline Profile, L=2658 mm	as required
3	Connect Thinline Corner	as required
4	Connect Fixing Plate installed 3 per panel length	as required
5	Connect Spline	as required
5	Installation screw, installed at 400 mm centres (select fastener according to wall material)	as required
7	Connect Thinline Splice. used to extend Thinline profiles where needed.	as required
8	Connect Thinline Space Bar	as required
	Δ Overall depth of system: 45 mm	





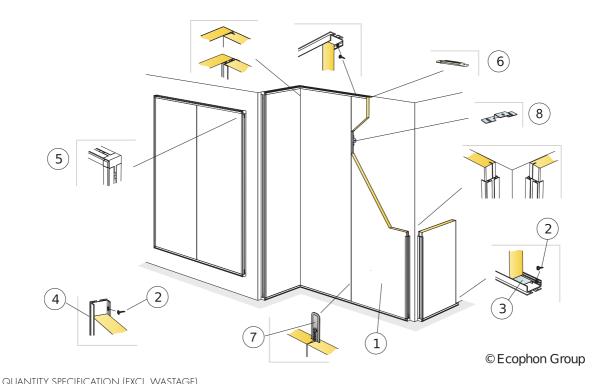
Detail of panel with Thinline frame



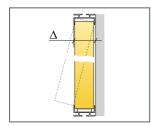
Detail of Thinline corner

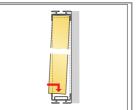
Size, mm Max live Min load bearing load [N] capacity [N] 2700x600x40 0 -

INSTALLATION DIAGRAM (M354) FOR ECOPHON AKUSTO WALL C VERTICAL INSTALLATION

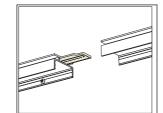


		Size, mm
		2700×600
	Akusto Wall C (Akusto Wall C/Super G for Ball Impact Resistance)	0,62/m²
	Connect Installation screw MVL (for use in plasterboard or timber)	as required
1	Connect WP Space bar, L=2400 mm	as required
	Connect WP Profile, L=2687 mm, fixed at 400 mm centres	as required
	Connect WP External corner mounted in Connect WP Profile	as required
	Connect WP Profile splice, used to extend WP profiles where needed.	as required
	Connect Spline	as required
	Connect Fixing Plate installed 3 per panel length	as required
	$\Delta$ Min. overall depth of system: 44 mm	





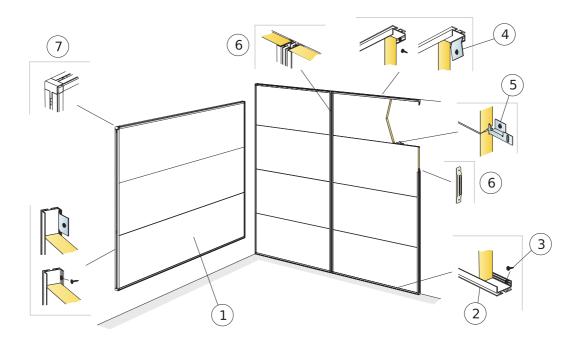
Detail of installation



Detail of WP Profile splice

Size, mm Max live Min load bearing load (N) capacity (N) 2700x600x40 0 -

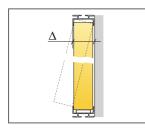
# INSTALLATION DIAGRAM (M355) FOR ECOPHON AKUSTO WALL C HORIZONTAL INSTALLATION

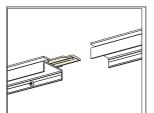


# © Ecophon Group

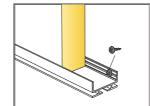
QUANIIIY	SPECIFICATION	(EXCL. WASTAGE)	
			-

		Size, mm
		2700×600
1	Akusto Wall C	0,62/m²
2	Connect WP Profile, L=2687 mm, fixed at 400 mm centres	as required
3	Connect Installation screw MVL [for use in plasterboard or timber]	as required
4	Alt. Connect Fixing bracket, fixed at 400 mm centres.	as required
5	Connect Fixing Plate installed 3 per panel length	as required
6	Connect WP Profile splice, used to extend WP profiles where needed.	as required
7	Connect WP External corner mounted in Connect WP Profile	as required
	$\Delta$ Min. overall depth of system: 44 mm	-





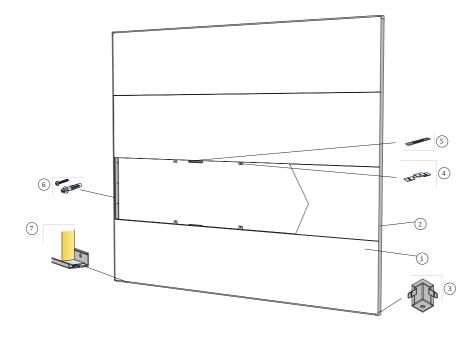
Detail of WP Profile splice



Detail of lower connection

Size, mm Max live Min load bearing load (N) capacity (N) 2700x600x40 0 -

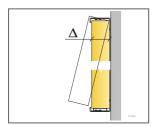
INSTALLATION DIAGRAM (M592) FOR ECOPHON AKUSTO WALL C HORIZONTAL INSTALLATION WITH CONNECT THINLINE PROFILES

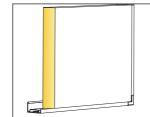


QUANTITY SPECIFICATION (EXCL. WASTAGE)

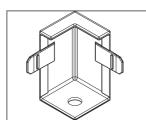
© Ecophon

		Size, mm
		2700×600
	Akusto Wall C	0,62/m²
	Connect Thinline Profile, L=2658 mm	as required
	Connect Thinline Corner	as required
	Connect Fixing Plate installed 3 per panel length	as required
	Connect Spline	as required
,	Installation screw, installed at 400 mm centres (select fastener according to wall material)	as required
	Connect Thinline Space Bar	as required
	Δ Overall depth of system: 45 mm	





Detail of panel with Thinline frame



Detail of Thinline corner

Size, mm Max live Min load bearing load [N] capacity [N] 2700x600x40

# Ecophon Akusto™ Wall C Extra Bass

Ecophon Akusto™ Wall C Extra Bass has a concealed grid and bevelled edge to create a narrow groove between each panel. Available in a variety

of surface options. The wall absorber has excellent sound absorption qualities from low to high sound frequencies. Best room acoustic

properties are achieved when used together with a sound absorbing ceiling.



#### SYSTEM RANGE

	40
	40
Н 4	

40	Size, mm	2700x600
40	Akusto Extra Bass (40mm)	•
	Thickness	40
	Inst. Diagr.	M535, M547







Akusto Wall C Extra Bass system

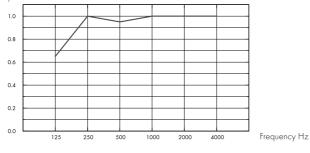
## Acoustic



# Sound Absorption:

Test results according to EN ISO 354. Classification according to EN ISO 11654, and the single value ratings for Noise Reduction Coefficient, NRC and Sound Absorption Average, SAA according to ASTM C 423.

 $\alpha_{_{D'}}$  Practical sound absorption coefficient



Akusto Wall C Extra Bass 80 mm, 80 mm o.d.s.
 o.d.s = overall depth of system

	ТНК	o.d.s. mm		$lpha_{p'}$ Pro	ictical sound	d absorption	coefficient		αw	Sound absorption class
	mm	mm	0.0.3. 11111	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	~~ <sub>w</sub>
Extra Bass	80	80	0.65	1.00	0.95	1.00	1.00	1.00	1.00	A

	THK mm	o.d.s. mm	NRC	SAA
Extra Bass	80	80	1.00	1.00



# Indoor Air Quality

Certificate / Label		SOR AIR COMPO	
Eurofins Indoor Air Comfort®	IAC Gold	CRATIFIED PRODUCT	
French VOC	A+		



# **Carbon footprint**

	kg CO2 equiv/m²
Akusto Wall C Extra Bass/Texona	7,42
Akusto Wall C Extra Bass/Akutex FT	7,26
Akusto Wall C Extra Bass/Super G	8,74

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



# Circularity

Minimum post-consumer recycled content	60%
Recyclability	Fully recyclable



#### **Fire safety**

Country	Fire standard	Class	Tł
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

Akusto Wall in white has high light reflectance. Light reflectance and nearest NCS colour sample for all the different colours: See Ecophon Colours and surfaces.



# Cleanability

Daily dusting, vacuum cleaning and weekly wet wiping (Akutex FT surface). Weekly dusting and vacuum cleaning (Texona) as required.



# Use of disinfectants

Texona Ginger, Sea salt, Thyme, Oyster and Garlic withstand the frequent use of ethanol (70%)-based disinfectants. Dampen a soft polyester microfiber cloth with the solution and wipe the surface in gentle circular movements.



# Accessibility

The tiles are non-demountable



# Installation

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



# System weight

	kg/m²
Akusto Wall C/Akutex FT	3,5
Akusto Wall C/Texona	3,5
Akusto Extra Bass	1,2

Weight information is indicative and subject to variation.



# **Mechanical properties**

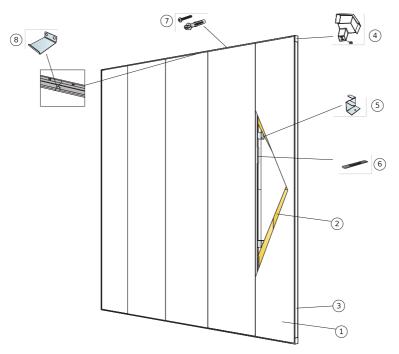
No additional live load is allowed.



# CE

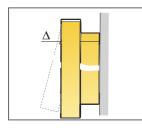
Ecophon ceiling systems are CE marked according to the European harmonized standard EN13964:2014. CE marked construction products are covered by a Declaration of Performance (DOP) which enables customers and users to easily compare performance of products available on the European market.

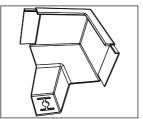
# INSTALLATION DIAGRAM (M535) FOR ECOPHON AKUSTO WALL C EXTRA BASS VERTICAL INSTALLATION WITH CONNECT SHADOW PROFILES.



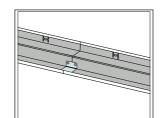
© Ecophon Group

Q	JANTITY SPECIFICATION (EXCL. WASTAGE)	
		Size, mm
		2700×600
1	Akusto Wall C	0,62/m²
2	Akusto Extra Bass	1,25/m²
3	Connect Shadow Profile	as required
1	Connect Shadow Corner [Incl. washer for leveling]	as required
5	Connect Ambit fixing installed at 1000 mm centres	as required
5	Connect Spline	as required
7	Installation screw, installed at 200 mm centres (select fastener according to wall material)	as required
3	Connect Shadow Splice. Used to extend profiles where needed.	as required





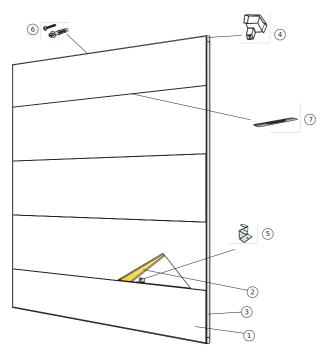
Detail of panel with Thinline frame



Detail of panel with Thinline frame

Size, mm Max live Min load bearing load [N] capacity [N] 2700x600x40 0 -

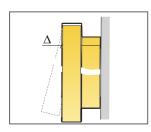
# INSTALLATION DIAGRAM (M547) FOR ECOPHON AKUSTO WALL BASS HORIZONTAL INSTALLATION WITH CONNECT SHADOW PROFILES.

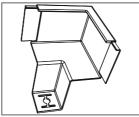


© Ecophon Group

QUANTITY SPECIFICATION (EXCL. WASTAGE)

	Size, mm
	2700×600
Akusto Wall C	0,62/m²
Akusto Extra Bass	1,25/m²
Connect Shadow Profile	as required
Connect Shadow Corner [Incl. washer for leveling]	as required
Connect Ambit fixing installed at 1000 mm centres	as required
Installation screw, installed at 200 mm centres (select fastener according to wall material)	as required
Connect Spline	as required
Connect Shadow Splice. Used to extend profiles where needed.	as required
-	Akusto Extra Bass         Connect Shadow Profile         Connect Shadow Corner (Incl. washer for leveling)         Connect Ambit fixing installed at 1000 mm centres         Installation screw, installed at 200 mm centres (select fastener according to wall material)         Connect Spline





Detail of panel with Thinline frame

Size, mm Max live Min load bearing load [N] capacity [N] 2700x600x40 0 -

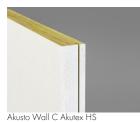


Ecophon Akusto<sup>™</sup> Wall C Akutex HS has a concealed grid and bevelled edge to create a narrow groove between each panel. Suitable for swimming pool areas, it's compatible with high humidity, corrosivity and occasional direct water.



#### SYSTEM RANGE

40	Size, mm	2700x600
	Thinline Profile	•
	Thickness	40
	Inst. Diagr.	M594C4





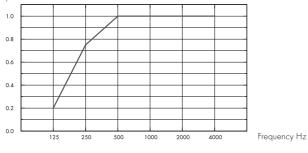


# Acoustic

#### Sound Absorption:

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

 $\alpha_{_{D'}}$  Practical sound absorption coefficient



- Akusto Wall C Akutex HS 40 mm, 50 mm o.d.s.
- o.d.s = overall depth of system

mm 125 Hz 250 Hz 500 Hz 1000 Hz 2000 Hz 4000 Hz 4000 Hz		THK o.d.s. mm	ode mm		$lpha_{ m p'}$ Pra	ctical sound	d absorption	coefficient		$\alpha_{w}$	Sound absorption class
		mm	0.0.3. 11111	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	~~w	
Akutex HS         40         50         0.20         0.75         1.00         1.00         1.00         1.00         1.00         A	Akutex HS	40 50	50	0.20	0.75	1.00	1.00	1.00	1.00	1.00	A

	THK mm	o.d.s. mm	NRC	SAA
Akutex HS	40	50	0.95	0.96



# Indoor Air Quality

Certificate / Label		Soon AIR COMPO	
Eurofins Indoor Air Comfort®	IAC Gold	R COLD AS	
French VOC	A+		



# **Carbon footprint**

)°		kg CO2 equiv/m²	Life-cycle stages A1 to C4 from EPD, in conformity with ISO 14025 / EN 15804
	Akusto Wall C - Akutex HS	7,77	14020 / 211 10004



# Circularity

Minimum post-consumer recycled content	60%
Recyclability	Fully recyclable



#### **Fire safety**

$\mathbf{\hat{b}}$	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**

Class C, relative humidity 95% and 30°C, according to EN 13964:2014



# Visual appearance

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



# Cleanability

Daily dusting and vacuum cleaning. Weekly wet wiping.



# Accessibility

The tiles are not demountable except in selected installation diagrams. See quantity specification for more information.



# Installation

Installed according to installation diagrams, installation guides and drawing aid. For information regarding minimum overall depth of system see quantity specification. The systems should not be placed behind goals or similar areas where they are likely to be hit regularly. In such cases a protective net in front of the system is recommended.



# System weight

	kg/m²	Weight information is indicative and subject to variation.
Akusto Wall C Akutex HS	3,6	



# **Mechanical properties**

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



# Cradle to Cradle Certified®

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

# Material Health

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Canada

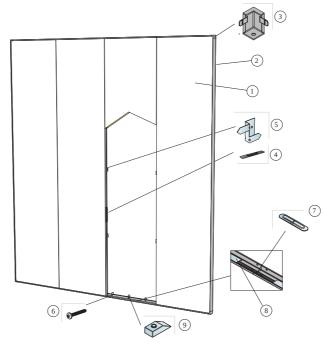


This product has received a C2C Certified Material Health Certificate™ at the Silver level (standard version 4.0). The C2C Certified Material Health Certificate™ is a verification of the health and safety of a product's composition using the Material Health requirements of the Cradle-to-Cradle Certified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

# 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.

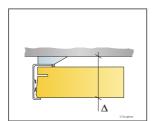
INSTALLATION DIAGRAM (M594C4) FOR ECOPHON AKUSTO™ WALL C AKUTEX HS VERTICAL INSTALLATION WITH CONNECT THINLINE PROFILE AND DISTANCE.



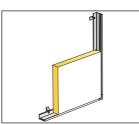
© Ecophon

#### QUANTITY SPECIFICATION (EXCL. WASTAGE)

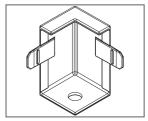
		Size, mm	
		2700×600	
1	Akusto Wall C Akutex HS	0,62/m²	
2	Connect Thinline Profile, L=2658 mm	as required	
3	Connect Thinline Corner	as required	
4	Connect Spline	as required	
5	Connect Thinline Fixing C4, for panel support every 1000 mm	as required	
5	Installation screw C4, installed at 200 mm centres (select fastener according to wall material)	as required	
7	Connect Thinline Splice. used to extend Thinline profiles where needed.	as required	
3	Connect Thinline Space Bar	as required	
7	Connect Distance C4, installed at 200 mm centres	as required	
_	$\Delta$ Overall depth of system: 55 mm	-	



See Quantity Specification



Detail of panel with Thinline system with distance



Detail of Thinline corner



# Ecophon Akusto™ One

Ecophon Akusto™ One is a panel for wall applications offered in square, rectangle or circle shapes. It offers a multitude of design possibilities thanks to the many different formats and colours.



SYSTEM RANGE

40	Size, mm	Ø592	592x592	Ø792	Ø1192	1192x292	1192x592
Та		0592	J7ZXJ7Z	W/92	WT19Z	11478747	TTAX2AZ
	Special Fixing	•	•	•	•	•	•
	Thickness	40	40	40	40	40	40
	Inst. Diagr.	M372	M371	M372	M372	M371	M371



Installation with Connect™ One trim and Connect™ Absorber Anchor One



Installation with Connect<sup>™</sup> Absorber

tion with Connect™ One hook

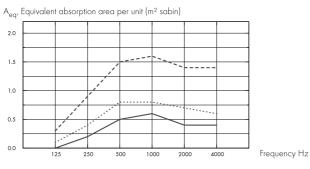
# Acoustic

The values in the diagram refer to a single unit. If the units are arranged in a cluster with distances between units less than 0,5 metres, the Aeq per unit will be slightly reduced.

fixing

# Sound Absorption:

Test results according to EN ISO 354.

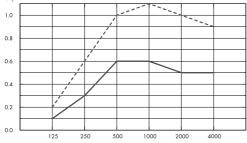


- Akusto One Ø592, 48 mm o.d.s.

glue

- ···· Akusto One Ø792, 48 mm o.d.s.
- --- Akusto One Ø1192, 48 mm o.d.s.
- o.d.s = overall depth of system

 $A_{\rm eq^{\prime}}$  Equivalent absorption area per unit (m² sabin)



- Akusto One 592x592, 48 mm o.d.s.
- Akusto One 1192x292, 48 mm o.d.s.
- --- Akusto One 1192x592, 48 mm o.d.s. o.d.s = overall depth of system

Frequency Hz

	ТНК	o.d.s. mm	A <sub>eq</sub> , Equivalent absorption area per unit (m² sabin)						
	mm	0.0.5. 11111	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	
Ø592	40	48	0.0	0.2	0.5	0.6	0.4	0.4	
Ø792	40	48	O.1	0.4	0.8	0.8	0.7	0.6	
Ø1192	40	48	0.3	0.9	1.5	1.6	1.4	1.4	

ТНК		o d o mm	A <sub>eq</sub> , Equivalent absorption area per unit (m <sup>2</sup> sabin)						
	mm	o.d.s. mm	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	
592x592	40	48	0.1	0.3	0.6	0.6	0.5	0.5	
1192x292	40	48	0.1	0.3	0.6	0.6	0.5	0.5	
1192x592	40	48	0.2	0.6	1.0	1.1	1.0	0.9	

#### **Indoor Air Quality**

Certificate / Label		BOR AIR COM	
Eurofins Indoor Air Comfort®	IAC Gold	CARTIFIED PRODUC	
French VOC	A+		



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## Cradle to Cradle Certified®

Akusto products with Akutex FT surface are Cradle to Cradle Certified® at Bronze level (version 4.0).



# **Material Health**

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Akusto products with Akutex FT surface have 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.



#### **Carbon footprint**

	kg CO2 equiv/m²	Life-cycle stages A1 to C4 from EPD, in conformity with ISO 14025 / EN 15804
Akusto One - Akutex FT	7,59	
Akusto One - Texona	9,42	-



# Circularity

Minimum post-consumer recycled content	61%
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**

Class C, relative humidity 95% and 30°C, according to EN 13964:2014



# **Visual appearance**

Akusto Wall in white has high light reflectance. Light reflectance and nearest NCS colour sample for all the different colours: See Ecophon Colours and surfaces.



# Cleanability

Daily dusting, vacuum cleaning and weekly wet wiping (Akutex FT surface). Weekly dusting and vacuum cleaning (Texona) as required.



# Accessibility

The tiles are easily demountable except glued installation see quantity specification.



# 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/m²	Weię
Akusto One/Akutex FT	3,5	
Akusto One/Texona	3,6	
Akusto Freedom	3,5	

Weight information is indicative and subject to variation.



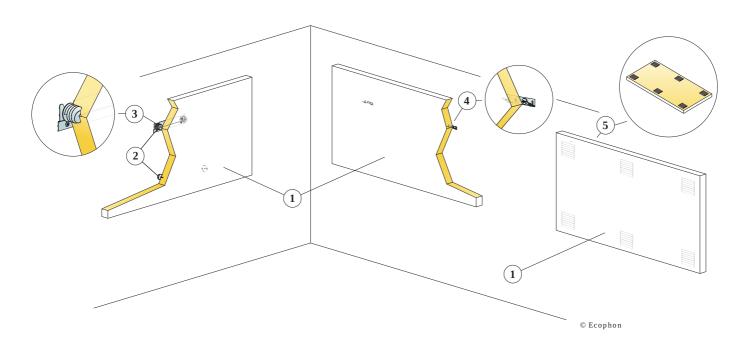
# **Mechanical properties**

No additional live load is allowed.

# CE

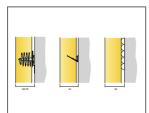
CE

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.

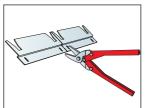


#### QUANTITY SPECIFICATION (EXCL. WASTAGE)

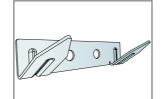
	Size, mm	Size, mm			
	592×592	1192x292	1192x592		
1 Akusto One	2,8/m²	2,8/m²	1,4/m²		
2 Alt, 1 Connect One trim (wall distance included)	0,5/panel	1/panel	1/panel		
3 Alt, 1 Connect Absorber Anchor One	2/panel	2/panel	2/panel		
1 Alt. 2 Connect One hook fixing	2/panel	2/panel	2/panel		
Alt. 3 Connect Absorber glue (0,25 I/m² - 0,4 I/m² depending on installation conditions)	as required	as required	as required		
Use Connect Notched spatula to apply the glue.		-			
$\Delta$ Min. overall depth of system: $\Delta$ 1 48 mm/70mm / $\Delta$ 2 44 mm The system is demountable		-			
$\Delta$ Min, overall depth of system: $\Delta$ 3 43 mm. The system is not demountable	-	-	-		



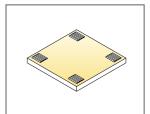
See Quantity specification



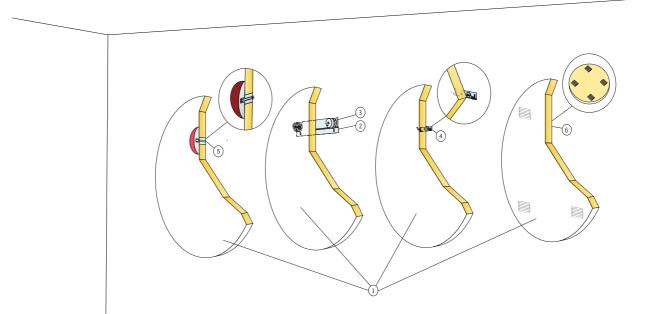
Connect One trim can be divided into two suspension trims



Connect One hook fixing

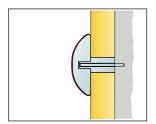


Application of glue

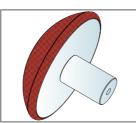


CHANTITY	SPECIFICATION	\A/ASTAGE)
COAININ	JI LOHICAHON	VVAJIAOLI

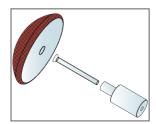
Size, mm Ø592 Ø792 Ø1192 1 Akusto One  $3,5/m^{2}$  $2/m^2$  $0,9/m^{2}$ 2 Alt. 1 Connect One trim (wall distance included) 0,5/panel 1/panel 1/panel 3 Alt. 1 Connect Absorber Anchor One 2/panel 2/panel 2/panel 4 Alt. 2 Connect One hook fixing 2/panel 2/panel 2/panel 5 Alt. 3 Connect One fixing 1/panel 1/panel 1/panel 6 Alt. 4 Connect Absorber glue (0,25 l/m² - 0,4 l/m² depending on installation conditions) as required as required as required Use Connect Notched spatula to apply the glue.  $\Delta$  Min. overall depth of system:  $\Delta$ 1 48 mm/70mm /  $\Delta$ 2 44 mm /  $\Delta$ 3 40mm The system is demountable  $\Delta$  Min. overall depth of system:  $\Delta 4$  43 mm. The system is not demountable



See Quantity specification



Connect One fixing available in 4 different colours



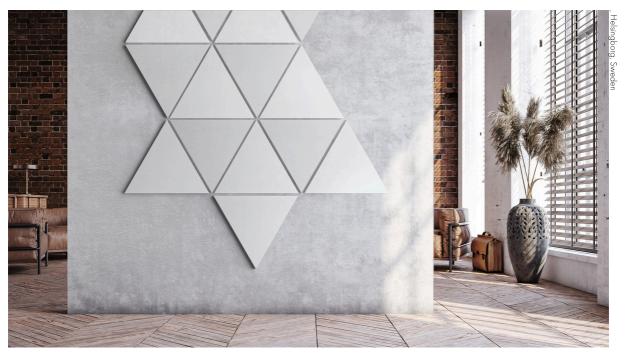
Installation with Connect One fixing

© Ecophon



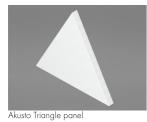
# Ecophon Akusto<sup>™</sup> Triangle

Ecophon Akusto™ Triangle is a triangle shaped wall panel, offering possibility for endless wall patterns. Mounting the panel onto a wall is easy. Use glue for quick direct fix or use Connect One Trim that has two different distance choices enabling 3dimensional patterns.



#### SYSTEM RANGE

40	Size, mm	513x592
	Special Fixing	•
	Thickness	40
	Inst. Diagr.	M585





Installation with Connect™ One trim and Connect™ Absorber Anchor One



Installation with Connect™ One hook fixing



Installation with Connect™ Absorber glue

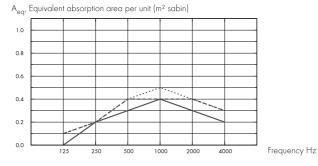
# Acoustic



The values in the diagram refer to a single unit.

# Sound Absorption:

Based on test results according to EN ISO 354.



- Akusto Triangle, 43 mm o.d.s

- --- Akusto Triangle, 48 mm o.d.s
- ···· Akusto Triangle, 70 mm o.d.s
- o.d.s = overall depth of system

THK	o.d.s. mm	A <sub>eq</sub> , Equivalent absorption area per unit (m² sabin)					
mm	0.0.5. 11111	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz
40	43	0.0	0.2	0.3	0.4	0.3	0.2
40	48	0.1	0.2	0.4	0.4	0.4	0.3
40	70	0.1	0.2	0.4	0.5	0.4	0.3



# **Indoor Air Quality**

Certificate / Label	Stoff AIR COAHE		
Eurofins Indoor Air Comfort®	IAC Gold	RATIFIED PROPUE	
French VOC	A+		



# Cradle to Cradle Certified®

Akusto products with Akutex FT surface are Cradle to Cradle Certified® at Bronze level (version 4.0).



#### **Material Health**

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Akusto products with Akutex FT surface have 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.



#### **Carbon footprint**

kg CO2 equiv/m <sup>2</sup>		Life-cycle stages A1 to C4 from EPD, in conformity with ISO 14025 / EN 15804
Akusto Triangle	1,06	- 14023 / EIN 13004



# Circularity

)	Minimum post-consumer recycled content	60%
	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.



# **Humidity Resistance**

Class C, relative humidity 95% and 30°C, according to EN 13964:2014



# Visual appearance

Akusto Wall in white has high light reflectance. Light reflectance and nearest NCS colour sample for all the different colours: See Ecophon Colours and surfaces.



# Cleanability

Akutex FT: Daily dusting and vacuum cleaning. Weekly wet wiping. Advantage surface, weekly dusting and vacuum cleaning. For more info see colours and surfaces on www.ecophon.com/uk



# Accessibility

The tiles are easily demountable except glued installation see quantity specification.



# Installation

Installed according to installation diagrams, installation guides and drawing aid. For information regarding minimum overall depth of system see quantity specification. Rendered surfaces must have sufficient strength to be able to carry the load imposed by the tiles. If doubts, test gluing should be carried out. The surface should always be dry and clean. For best result the surface should be even, however an acceptable result could be achieved on slightly uneven surfaces.



# System weight

	kg/m²	Weight information is indicative and subject to variation.
Akusto Triangle	3,5	



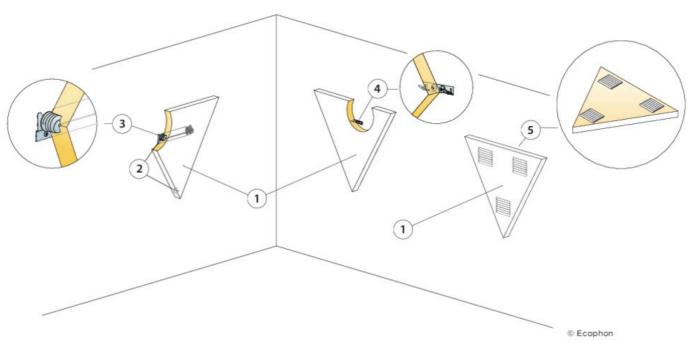
# **Mechanical properties**

No additional live load is allowed.

# CE

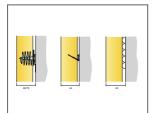
CE

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.

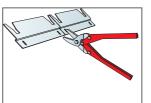


QUANTITY SPECIFICATION (EXCL. WASTAGE)

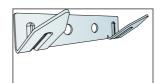
		Size, mm
		513x592
1	Akusto Triangle	3,2/m²
2	Alt. 1 Connect One trim (wall distance included)	0,5/panel
3	Alt. 1 Connect Absorber Anchor One	2/panel
4	Alt. 2 Connect One hook fixing	2/panel
5	Alt. 3 Connect Absorber glue (0,25 l/m² - 0,4 l/m² depending on installation conditions)	as required
	Use Connect Notched spatula to apply the glue.	
	$\Delta$ Min. overall depth of system: $\Delta$ 1 48 mm/70mm / $\Delta$ 2 44 mm The system is demountable	
	$\Delta$ Min. overall depth of system: $\Delta$ 3 43 mm. The system is not demountable	-



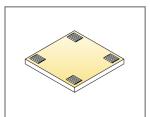
See Quantity specification



Connect One trim can be divided into two suspension trims



Connect One hook fixing



Application of glue



# Ecophon Akusto™ Hexagon

Ecophon Akusto<sup>™</sup> Hexagon is a hexagon shaped wall panel, offering the possibility for endless wall patterns. Mounting the panel onto a wall is easy. Use glue for quick direct fix or use Connect One Trim that has two different distance choices enabling 3-dimensional patterns.



#### SYSTEM RANGE

40	Size, mm	513x592
	Special Fixing	•
	Thickness	40
	Inst. Diagr.	M586





Installation with Connect™ One trim and Connect™ Absorber Anchor One



Installation with Connect™ One hook fixing



Installation with Connect™ Absorber glue

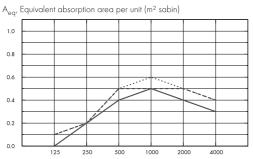
# Acoustic



The values in the diagram refer to a single unit.

# Sound Absorption:

Based on test results according to EN ISO 354.



- Akusto Hexagon, 43 mm o.d.s
  - --- Akusto Hexagon, 48 mm o.d.s
  - ···· Akusto Hexagon, 70 mm o.d.s
  - o.d.s = overall depth of system

000	Frequency Hz

THK	o.d.s. mm	A <sub>eq</sub> , Equivalent absorption area per unit (m² sabin)					
mm	0.0.5. 11111	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz
40	43	0.0	0.2	0.4	0.5	0.4	0.3
40	48	0.1	0.2	0.5	0.5	0.5	0.4
40	70	0.1	0.2	0.5	0.6	0.5	0.4



### **Indoor Air Quality**

Certificate / Label		SOR AIR COMP	
Eurofins Indoor Air Comfort®	IAC Gold	RANIFIED PROB	
French VOC	A+	-	



# Cradle to Cradle Certified®

Akusto products with Akutex FT surface are Cradle to Cradle Certified® at Bronze level (version 4.0).



#### **Material Health**

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Akusto products with Akutex FT surface have 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.



#### **Carbon footprint**

kg CO₂ equiv∕m²		Life-cycle stages A1 to C4 from EPD, in conformity with ISO 14025 / EN 1.5804
Akusto Hexagon	1,43	- 14023 / EN 13004



# Circularity

)	Minimum post-consumer recycled content	60%
	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.



# **Humidity Resistance**

Class C, relative humidity 95% and 30°C, according to EN 13964:2014



# **Visual appearance**

Akusto Wall in white has high light reflectance. Light reflectance and nearest NCS colour sample for all the different colours: See Ecophon Colours and surfaces.



# Cleanability

Akutex FT: Daily dusting and vacuum cleaning. Weekly wet wiping. Advantage surface, weekly dusting and vacuum cleaning. For more info see colours and surfaces on www.ecophon.com/uk



# Accessibility

The tiles are easily demountable except glued installation see quantity specification.



# Installation

Installed according to installation diagrams, installation guides and drawing aid. For information regarding minimum overall depth of system see quantity specification. Rendered surfaces must have sufficient strength to be able to carry the load imposed by the tiles. If doubts, test gluing should be carried out. The surface should always be dry and clean. For best result the surface should be even, however an acceptable result could be achieved on slightly uneven surfaces.



# System weight

	kg/m²	Weight information is indicative and subject to variation.
Akusto Hexagon	3,5	



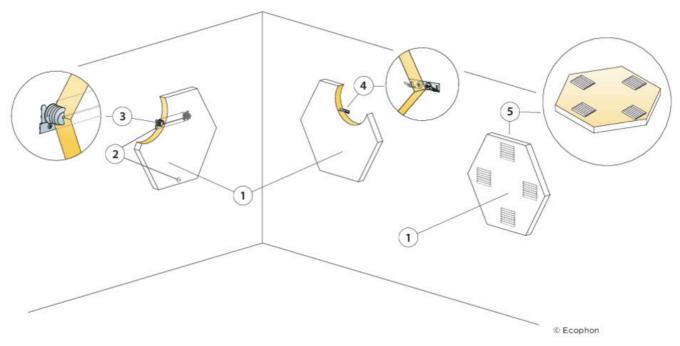
# **Mechanical properties**

No additional live load is allowed.

# CE

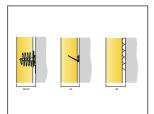
CE

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.

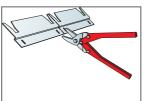


QUANTITY SPECIFICATION (EXCL. WASTAGE)

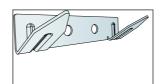
		Size, mm
		513x592
1	Akusto Hexagon	3,2/m²
2	Alt. 1 Connect One trim (wall distance included)	0,5/panel
3	Alt. 1 Connect Absorber Anchor One	2/panel
4	Alt. 2 Connect One hook fixing	2/panel
5	Alt. 3 Connect Absorber glue (0,25 l/m² - 0,4 l/m² depending on installation conditions)	as required
	Use Connect Notched spatula to apply the glue.	
	$\Delta$ Min. overall depth of system: $\Delta$ 1 48 mm/70mm / $\Delta$ 2 44 mm The system is demountable	
	$\Delta$ Min. overall depth of system: $\Delta$ 3 43 mm. The system is not demountable	-



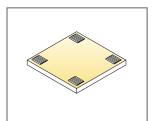
See Quantity specification



Connect One trim can be divided into two suspension trims



Connect One hook fixing



Application of glue

# Ecophon Akusto<sup>™</sup> Screen

Ecophon Akusto<sup>™</sup> Screen has an exposed profile system. The size of the product is 1500 x 1200mm, thickness 40 mm. Available in Texona surface. Suitable for open space offices. Combined with a sound absorbing ceiling to achieve excellent acoustic properties in the room.



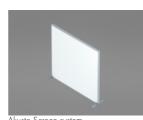
#### SYSTEM RANGE

Size, mm	1500x1200	
Freestanding	•	
Thickness	40	
Inst. Diagr.	M564	





Akusto Floor corner



Akusto Screen system

# Acoustic

0.5



# Sound Absorption:

Sound absorption and sound attenuation test results according to ISO 20189.

A<sub>eq</sub>, Equivalent absorption area per unit (m<sup>2</sup> sabin)

500

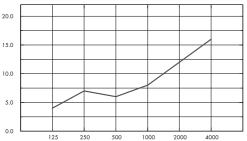
- Akusto Screen, size 1500x1200 mm

Frequency Hz

Screen sound attenuation  $\Delta$ Ls (dB)

250

125



1000

2000

4000

- Akusto Screen, size 1500x1200 mm

	ТНК	A <sub>eq</sub> , Equivalent absorption area per unit (m² sabin)						
	mm	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	
1500x1200	40	0.8	1.5	2.5	3.2	3.5	3.4	

Frequency Hz

		ТНК	Screen sound attenuation $\Delta$ Ls (dB)					Weighted screen sound attenuation (dB)	
	mi		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	weighted screen sound direnuation (db)
-	1500x1200	40	4.0	7.0	6.0	8.0	12.0	16.0	10.0



# Indoor Air Quality

Certificate / Label	SOR AIR COMPOSI-			
Eurofins Indoor Air Comfort®	IAC Gold	GRADIEL PRODUCT		
French VOC	A+			



# Circularity

)	Minimum post-consumer recycled content	48%*	*this value does no
	Recyclability	Fully recyclable	

\*this value does not take into account the aluminium frame



### **Humidity Resistance**

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



# Visual appearance

Texona in white has high light reflectance. For more information regarding visual appearance of the various surfaces: See Ecophon Colours and surfaces.



# Cleanability

Weekly dusting and vacuum cleaning.



# Use of disinfectants

Texona Ginger, Sea salt, Thyme, Oyster and Garlic withstand the frequent use of ethanol (70%)-based disinfectants. Dampen a soft polyester microfiber cloth with the solution and wipe the surface in gentle circular movements.



# Installation

Installed according to the installation guide that is delivered with the product.



# **Mechanical properties**

The product is tested according to EN14073-2 and EN1023.

