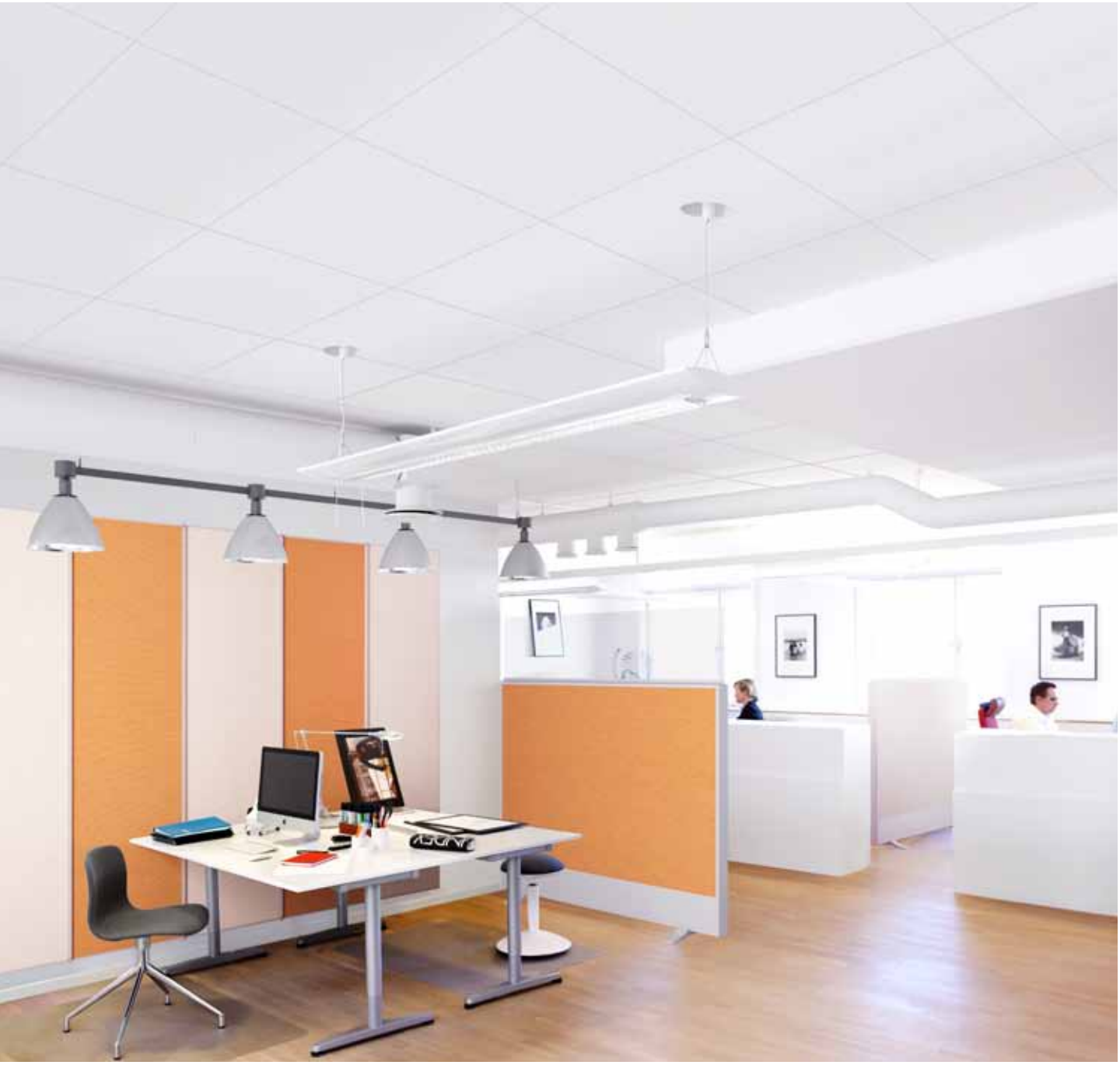
Ecophon Akusto™

explore the variety of the vertical



Ecophon®
SAINT-GOBAIN
A SOUND EFFECT ON PEOPLE

This publication shows products from Ecophon's product range and those of other suppliers. The specifications are intended to provide a general guide to which products are most suitable for the preferences indicated. Technical data is based on results obtained under typical testing conditions or long experience in normal conditions. The specified functions and properties for products and systems are only valid on condition that instructions, installation diagrams, installation guides, maintenance instructions and other stated conditions and recommendations have been taken into consideration and followed. Deviation from this, such as changing specific components or products, will mean that Ecophon cannot be held responsible for the function, consequences and properties of the products. All descriptions, illustrations and dimensions contained in this brochure represent general information and shall not form part of any contract. Ecophon reserves the right to change products without prior notice. We disclaim any liability for misprints. For the latest information go to www.ecophon.com or contact your nearest Ecophon representative.

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Bring the outdoors in

and enhance your wellbeing and performance

Akusto Screen A; Akusto Wall C

The short story is that our ears, over hundreds of thousands of years, evolved for us to hear perfectly outdoors. But these days most of us spend 80 to 90% of our time indoors.

For more than fifty years Ecophon have been on a mission. A mission to spread awareness of the importance of an indoor environment that resembles what we experience in nature. Our innovative sound-absorbing systems make it possible to design rooms with the optimium acoustic comfort helping those within them to work productively, learn easily, heal quickly and relax in comfort. Every system is continuously tested and acoustically measured, to make sure that Ecophon are always innovating and improving our systems.

Pleasing to the eye, the ear and the mind

The scope of our acoustic systems covers every indoor environment. But even if the ear is our main focus, we understand that to please the mind; we also have to please the eye with inspiring design. Therefore we offer a complete collection of wall-to-wall ceilings, striking free-hanging units, colourful wall panels and now, our new acoustic screens; all to give you the opportunity to achieve the atmosphere you are striving for.

Taking care of the environment

Everything Ecophon does is about people. It is therefore natural that we limit the impact we have on the environment. The glass-wool in our systems is made of more than 70 per cent recycled glass. Our absorbers are designed to be very lightweight to reduce emissions from transportation. We use renewable energy in our facilities and never put any harmful additives into our water-based paint. We also turn our production waste into pellets that are used to support drainage in landfills.

Ecophon – a sound effect on people.

Ecophon Akusto™

explore the variety of the vertical

To create a room with the optimum acoustic comfort you need to reduce noise, increase speech clarity, and minimise sound propagation. This is the reason Ecophon developed Akusto – the ultimate partner for our ceilings and free-hanging units.

Akusto Screen A; Akusto Wall C

As the first choice in creating a good acoustic environment, we always recommend a wall-to-wall ceiling. However we recognise that this is not always possible or sufficient to create the required sound environment. This is where Akusto enters the picture.

When you combine an Ecophon ceiling with either Akusto Wall *or* Akusto Screen, the perceived noise is reduced dramatically. And when you use *both* wall panels and screens, the noise will decrease even further.

Endless design possibilities

You can choose from a wide range of contemporary colours, patterns, textures, and profiles. The easy installation also makes Akusto the obvious choice for refurbishments and renovations. Akusto lets the acoustic treatment become an attractive part of the interior design.

Perfect for TABS

TABS (Thermally Activated Building Systems) is an environmentally friendly building technique, that uses an exposed concrete soffit for temperature control. In TABS buildings a wall-to-wall ceiling is not possible, since it would cover the temperature-regulating concrete.

Thanks to the many ways you can use Ecophon ceilings as free-hanging units, they are ideal for TABS buildings. Our measurements show that free-hanging units that cover 60 per cent of the floor area are an optimal solution, both thermally and acoustically.

But even if 60 per cent coverage is a good start, it is not enough to get you the desired acoustic comfort. Akusto will assist you the rest of the way towards achieving a room that is as pleasing to the ear as to the eye.

A sound environment, indoors and outdoors

Like all Ecophon systems, Akusto is certified by several eco-labels and marks of quality. Here are some of them.

Great sound environments

with Ecophon solutions

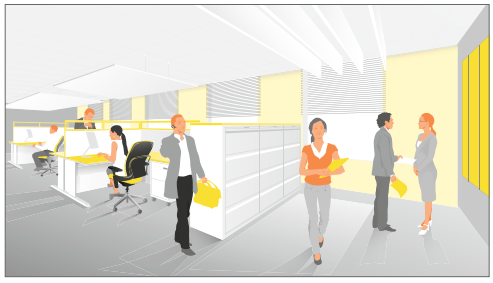
To create a room with good acoustic comfort the first step is to take into account the people who will be in the room, then what they will be doing, and finally the deisgn, shape and form of the room itself.

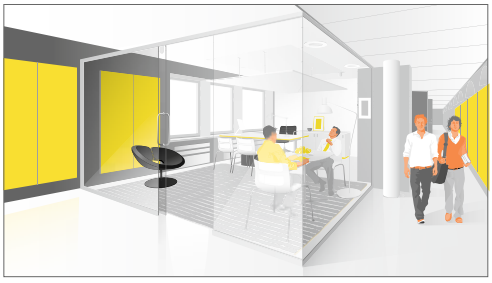
Open-plan offices

In open-plan offices the acoustic challenge is often related to the distance that disturbing voices and conversations travel. By installing a suspended ceiling, wall panels next to desks, and using screens as dividers, you dramatically reduce the distance that noise travels.

Wall panels and screens also minimise echoes that come from sounds bouncing between hard surfaces, such as bare walls, desks and cabinets. Conversations and other sound will be absorbed close to their sources rather than spreading across the room.

The benefits of a good sound environment in your office will, among other things, mean fewer interruptions and less stress, increasing job satisfaction and supporting higher performance.





Schools

In order to learn you have to be able to listen. If your energy is used to try to hear what the teacher is saying, you will remember a lot less of what you heard.

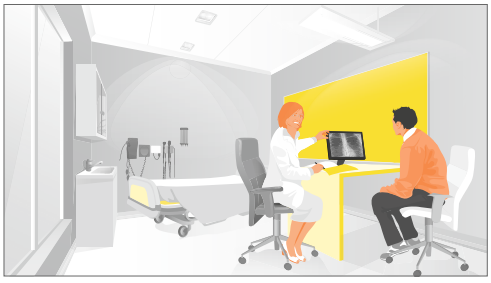
Having a good sound environment in schools is therefore vital. A full suspended ceiling combined with wall panels that cover at least the equivalent of 20% of the floor area will in most cases give you an adequate acoustic solution for learning.

Modern teaching methods use a combination of individual and group work, posing an acoustic challenge. By fitting wall panels to two adjacent walls, sound propagation will be reduced; and speech will only be heard by the intended listeners.

Hospitals and healthcare facilities

In order to heal we need to rest and sleep. Sound disturbs our sleep and therefore affects our healing process. In hospitals and healthcare facilities there is a need to create calm and stress-free environments that contribute to patient recovery and staff wellbeing.

To achieve this we recommend installing both suspended ceilings and wall panels in wards, corridors, and reception areas. And because hygiene is such a vital part of treating people, Ecophon has developed absorbing systems that surpass every kind of hygiene requirement needed in hospitals.



Sports halls

Sports halls are often covered in hard surfaces and the sound level can become very high when activities are taking place. Here, wall panels can complement a suspended absorbent ceiling very effectively.

In order to achieve a good acoustic solution we recommend that you put wall panels on at least two adjacent walls and cover as much of the ceiling as you can.

For this type of environment Ecophon has created a special surface that is impact-resistant. But to be completely sure, even in sports halls, we recommend that wall panels are installed at least two meters from the floor.

Akusto Screen A; Akusto Wall C

Akusto Wall A

Akusto Wall C

Akusto Wall C

Akusto Wall C

Akusto Wall A

Akusto Screen A; Akusto Wall C

Colours and surfaces

provide endless design possibilities

Do you need a durable, impact-resistant acoustic solution? Or are you looking to fashionably design the interior of your office? Akusto gives you the chance to do both. And a lot more.

Texona

If you want to create expressive wall solutions with a wide range of colours, Texona is a great choice. The surface has a glass-fibre fabric finish and there are 16 available colours. Each colour has been carefully chosen in collaboration with interior designers, architects and textile designers.

Sea Salt S 0500-N	Nutmeg S 7010-Y30R	Chilli S 2070-R
Garlic S 2502-Y	Blueberry S 7020-R80B	Tangerine S 2060-Y50R
Oyster S 4005-Y20R	Menthol S 4040-B30G	Rhubarb S 5030-R20B
Ginger S 2005-Y30R	Mustard S 2050-Y	Mulberry S 7020-R50B
Pepper S 6502-Y	Wasabi S 4020-G70Y	Lavender S 2030-R70B
Liquorice S 9000-N		

Super G

Designed for environments where impact occurs. Super G is a glass-fibre fabric woven specially to provide a high impact resistance, the combination of this strong fabric and a high-density glass wool core makes it ideal for wall and ceiling absorbers in sports halls and preschool environments.

White 085 S 1002-Y	Grey 984 S 3502-G	Green 583 S 4040-G40Y

Akutex™ FT

This smooth, attractive, and light-reflecting surface comes in nine colours inspired by nature. Akutex FT provides optimum sound absorption on both ceilings and wall panels. To prevent damage to the surface the sound absorbers should preferably be installed out of normal reach.

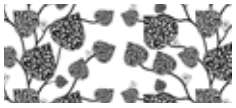
Volcanic Dust S 2002-Y	Silent Sand S 2005-Y30R	Silver Shadow S 4502-Y
Misty Rose S 1010-Y60R	Pure Olive S 2010-Y	Soft Slate S 7000-N
Pale Garden S 1005-G10Y	Vanilla Dream S 1505-Y	White Frost S 0500-N

Muralis

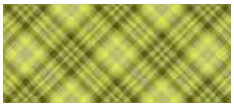
In addition to a range of colours, we have also developed a number of printed patterns that are ready to brighten up your wall. The Muralis range is created in such a way that everyone should be able to find a favourite.

The Muralis Designer Collection was created by five young designers. Five personalities, five patterns and five styles. In the Classic Collection you will find fifteen patterns ranging from a traditional flower pattern taking inspiration from the 18th century, to a vivid 70s pattern in green and orange.

Designer Collection

 Fantasia Susanna Sivonen	 Julius Kicki Edgren Nyborg	 S-Chair-Trio Céline Cavallin
 Glory Louise Videlyck	 Old School Maria Westerberg	

Classic Collection

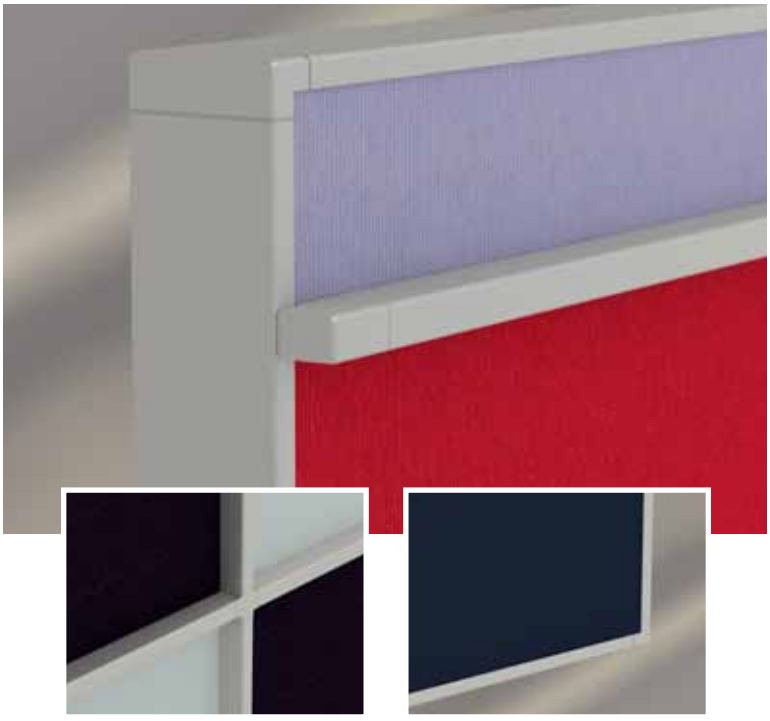
 Apples and leaves	 Green tartan	 Poppies field
 Colour hands	 Greenboard chemistry	 Quilted leather
 Colourful reliefs	 Leopard fur	 Sky flowers
 Denim patchwork	 Persian medallion	 Sticky notes
 Favourite things	 Pink tracery	 Subway map

Stylish Connect™ profiles

add a crisp finish

Ecophon Akusto™ can be installed in many different ways. The different profile systems make it possible to mount wall panels from floor to ceiling, either horizontally or vertically. You can also divide your wall into smaller fields to create patterns, or create your own arrangement.

Connect™ Thinline profile and Structure profile
Connect Thinline profile is an elegant solution made from aluminium. And when you combine it with Connect Structure profile, it allows you to create fields of colours and patterns, both vertically and horizontally. The edge radius of the frame is less than 2mm. making it very suitable for use in nurseries and schools.



Connect™ grey 03 textured
S 1500-N

Connect™ grey 04 textured
S 4500-N

Connect™ WP profile
Connect WP Profile is a robust profile solution that establishes a distinct frame around the wall panel. The system includes both inner and outer corners, which allows you to create non rectangular shapes, or to create space for a flat-screen TV or perhaps a whiteboard in the middle of your wall panel.

Connect™ natural anodized
S 1000-N

Connect™ black 01 textured
S 9000-N

Connect™ white 03 textured
S 0502-Y

Connect™ Channel trim
Connect Channel trim is an easy and functional solution for Akusto Wall. If you install it with Connect T24 Main runners or Connect Recessed profile, you can add shelves and use your wall panel installation as a bookcase.

Connect™ white 01
S 0500-N

Ecophon Akusto™ Screen A
The stylish frame of Akusto Screen A is made of naturally anodized aluminium. When you place two or more screens side by side, a simple connector is used to attach the screens to each other. The optional glass pane creates an aesthetic and functional finish.

Connect™ natural anodized
S 1000-N

Find your solution

by discovering all the possibilities with Akusto

So far you have been able to read about the benefits of Akusto and the vast assortment of surfaces, colours, patterns and profiles. The question that remains is what you should choose and how you can combine the different options.

Here is a clear table showing all the different options you have. Please note that Akusto Wall is available in two different edge designs, A and C. With Akusto Wall A, the cut edges are hidden by profiles, while Akusto Wall C allows for a narrow groove between the panels for a hidden join without the requirement for profiles. Wall A comes in a width of 1,200 mm while Wall C is available in a width of 600 mm.

Akusto Screen is available in two different widths, 1,200 and 1,800 mm, giving you the opportunity to match seating arrangements in your office. The height, including the 400 mm high glass pane, is 1,820 mm, making it perfect for offices. The glass pane is both aesthetically appealing and functional.

So get creative! Combine the colours and patterns that suit your taste, and find the profile that complements your chosen look.

Posssible combinations with Akusto

Surface material/Profile	Akusto Wall A	Akusto Wall C	Akusto Screen A
Texona	•	•	•
Muralis		•*	
Akutex FT	•	•	
Super G**	White/Grey	White/Grey/Green	
Thinline profile	•	•	
WP profile	•	•	
Channel trim	•		
Glass pane			•

* Muralis panel are 600x2400. All other panels are 2700 in length.

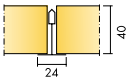
** We recommend WP-profile together with Akusto Wall/Super G.

Find your favourite combination

Our web tool gives you the opportunity to experiment with the different combination possibilities available with our Akusto Wall systems. Choose from different finishes, profile systems, colours and patterns. To try it out, please visit E-tools on www.ecophon.com/uk.

Akusto Screen A; Akusto Wall C

Ecophon Akusto™ Wall A



For use as wall absorbers together with, or instead of, a sound absorbing ceiling, to achieve excellent acoustic properties in the room. Ecophon Akusto Wall A has an exposed profile system.

The system consists of Ecophon Akusto Wall A panels and the Ecophon Connect profile system, with an approximate weight of 4 kg/m². The panels are manufactured from high density glass wool utilising the 3RD Technology. The visible surface has a glass fibre fabric (Texona) or an impact resistant glass fibre fabric (Super G), and is also available with a painted surface (Akutex™ FT). The back of the panel is covered with glass tissue. The edges are natural.

For best performance and system quality, use Ecophon Connect grid and accessories. The profiles are manufactured from galvanized steel (Connect Channel trim) or aluminium (Connect Thinline).

Akusto Wall A

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

Akusto Wall A system with Connect Channel trim and Connect Recessed profile

Akusto™ Wall system with Connect Thinline profiles

SYSTEM RANGE

Size, mm	2700 x 1200
T24	•
Thinline Profile	•
Thickness	40
Inst. Diagr.	M194, M304

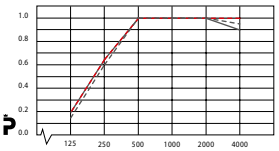
TECHNICAL PROPERTIES

ACOUSTIC

Sound Absorption: Test results according to EN ISO 354.

Classification according to EN ISO 11654, and the single value ratings for NRC and SAA according to ASTM C 423.

αp Practical sound absorption coefficient



--- Ecophon Akusto™ Wall A/Texona 40 mm o.d.s
- - - Ecophon Akusto™ Wall A/Super G 40 mm o.d.s
– Ecophon Akusto™ Wall A/Akutex FT 40 mm o.d.s
o.d.s = overall depth of system

Product	Akutex FT	Super G	Texona
o.d.s mm	40	40	40
absorption class	A	A	A
αw	0,95	0,90	0,95

Sound Insulation: Not applicable.

Sound Privacy: AC=230 according to ASTM E 1376 and E 1110

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

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

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.

INFLUENCE OF CLIMATE The panels withstand a permanent ambient RH up to 95% at 30°C (Super G and Akutex FT surfaces) and RH up to 75% at 30°C (Texona surface) without sagging, warping or delaminating (EN 13964). Thermal resistance for the panels, Rp=1,0 m²°C/W. Since a wall absorber mounted on an external wall serves as additional insulation, the need for a vapour barrier should be investigated.

INDOOR CLIMATE Certified by the Indoor Climate Labelling, emission class M1 for building materials and recommended by the Swedish Asthma and Allergy Association.

ENVIRONMENTAL INFLUENCE Glass wool core utilising 3RD Technology. Granted the Nordic Swan eco-label. Fully recyclable.

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

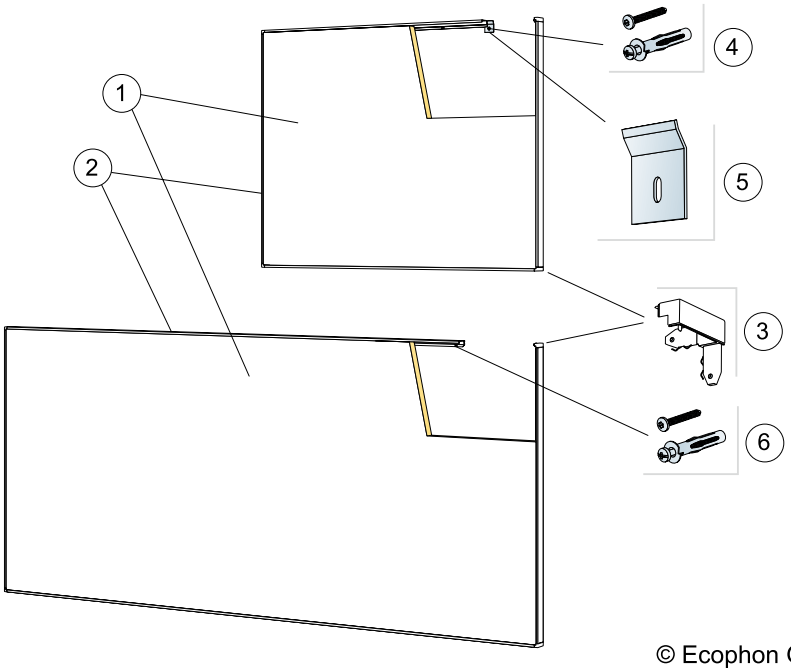
Reaction-to-fire classification

Country	Standard	Class
Europe	EN 13501-1	A2-s1,d0

MECHANICAL PROPERTIES Texona surface has moderate impact resistance. Super G is a stronger glass fibre fabric with high impact resistance. M194 with Super G surface is tested according to EN 13964 annex D and DIN 18032 part 3 and fulfils the demands corresponding to class 1A. 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. No additional live load is allowed.

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.

INSTALLATION DIAGRAM (M304) FOR ECOPHON AKUSTO WALL A WITH CONNECT THINLINE PROFILES.



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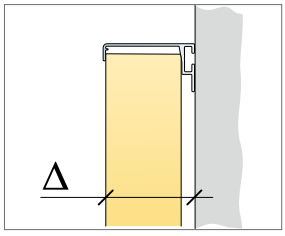
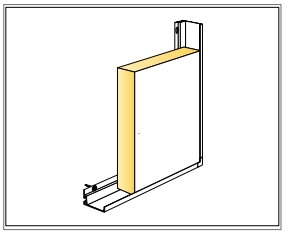
QUANTITY SPECIFICATION (EXCL. WASTAGE)

		Size, mm
		2700x1200
1	Ecophon Akusto Wall A	0,31/m²
2	Connect Thinline profile, L=2678 mm	as required
3	Connect Thinline corner	as required
4	Alt. 1: Installation screw, (select fastener according to wall material)	as required
5	Alt. 1: Connect Fixing bracket, fixed at 400 mm centres.	as required
6	Alt. 2: Installation screw, installed at 200 mm centres (select fastener according to wall material)	as required
	Δ Min. overall depth of system: 49 mm	
	Alt. 1: Max size of panel 1,45 m2.	



See Quantity specification

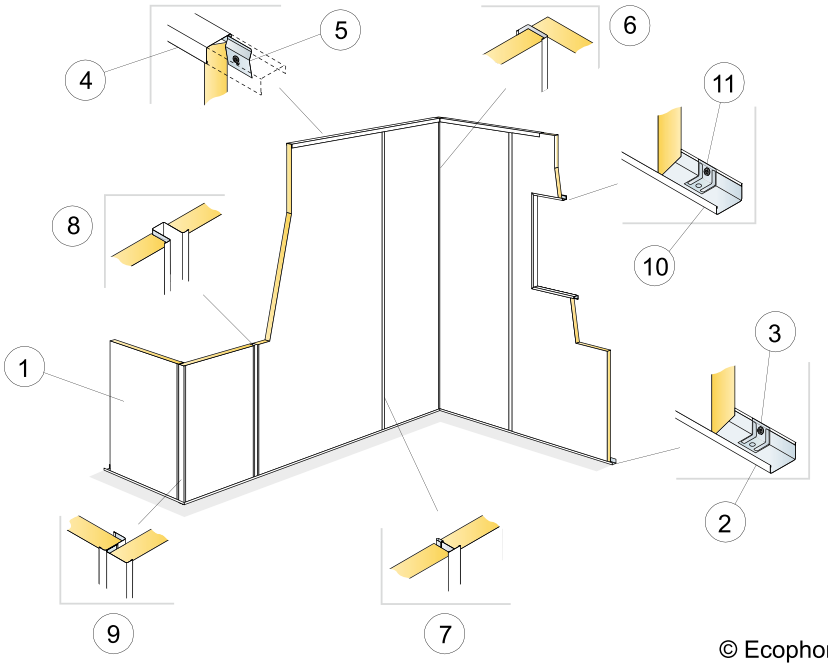


Detail of panel with Thinline frame

Size, mm	Max live load (N)	Min load bearing capacity (N)
2700x1200	0	-

Live load/load bearing capacity

INSTALLATION DIAGRAM (M194) FOR ECOPHON AKUSTO WALL A

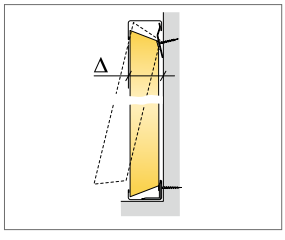


© Ecophon Group

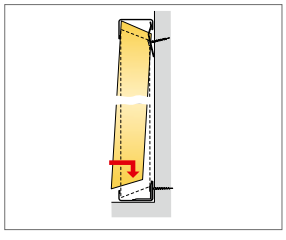
QUANTITY SPECIFICATION (EXCL. WASTAGE)

		Size, mm
		2700x1200
1	Ecophon Akusto Wall A	0,31/m²
2	Connect Channel trim, L=2700 mm, 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, placed inside at each fixing point if the panel is not supported by the floor	as required
4	Connect Channel trim, L=2700 mm, installed with Connect Fixing bracket, at 400 mm centres	as required
5	Alt. Connect Fixing bracket, fixed at 400 mm centres.	as required
6	Internal wall corner: Connect Channel trim, L=2700 mm, fixed at 400 mm centres	as required
7	Alt.2 Connect T24 Main runner, L=3700 mm (Installation: kept in position with the Channel trims)	as required
8	Alt.1 Connect Recessed profile, L=2700 mm (Installation: kept in position with the Channel trims)	as required
9	External wall corner: Connect Channel trim, L=2700 mm, fixed at 400 mm centres	as required
10	Frame: Connect Channel trim, L=2700 mm, fixed at 300 mm centres, Connect Direct fixing plate can be placed inside for extra support	as required
11	Connect Direct fixing plate, can be placed inside for extra support	as required

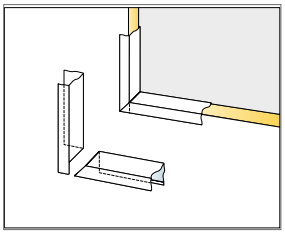
Δ Min. overall depth of system: 44 mm



See Quantity specification



Detail of installation



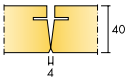
Cutting of channel trim for internal corner

Size, mm	Max live load (N)	Min load bearing capacity (N)
2700x1200	0	-

Live load/load bearing capacity

Akusto Wall C

Ecophon Akusto™ Wall C



For use as wall absorbers together with, or instead of, a sound absorbing ceiling, to achieve excellent acoustic properties in the room. Ecophon Akusto™ Wall C has a concealed grid and the bevelled edges create a narrow groove between each panel. The system provides extensive design possibilities.

The system consists of Ecophon Akusto™ Wall C panels and Ecophon Connect profile systems with an approximate weight of 5 kg/m². The panels are manufactured from high density glass wool utilizing the 3RD Technology. The visible surface has a glass fibre fabric (Texona in colours or Muralis with printed patterns) or an impact resistant glass fibre fabric (Super G), and is also available with a painted surface (Akutex™ FT). The back of the panel is covered with glass tissue. The edges are painted, and the front surface is partly covering the long edges. Akusto™ Wall C with Texona, Akutex FT and Super G surfaces are available in size 2700x600x40mm. Akusto™ Wall C with Muralis surface in size 2400x600x40mm.

For best performance and system quality, use Ecophon Connect profiles and accessories, which give a lot of design possibilities. The profiles are manufactured from extruded aluminium.

* *Muralis*
** *Akutex FT, Texona, Super G*

Akusto™ Wall C

Section of Akusto™ Wall C System

Akusto™ Wall C system with Connect WP profile and external corner

Akusto™ Wall system with Connect Thinline profiles

SYSTEM RANGE

Size, mm	2400 x 600*	2700 x 600**
Thinline Profile	•	•
WP Profile	•	•
Thickness	40	40
Inst. Diagr.	M195, M196, M303	M195, M196, M235, M303

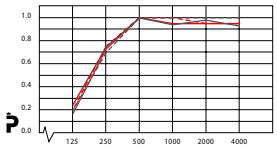
TECHNICAL PROPERTIES

ACOUSTIC

Sound Absorption: Test results according to EN ISO 354.

Classification according to EN ISO 11654, and the single value ratings for NRC and SAA according to ASTM C 423.

α_p Practical sound absorption coefficient



--- Ecophon Akusto™ Wall C/Texona 40 mm o.d.s
- - - Ecophon Akusto™ Wall C/Super G 40 mm o.d.s
– Ecophon Akusto™ Wall C/Akutex FT 40 mm o.d.s
— Ecophon Akusto™ Wall C/Muralis 50 mm o.d.s.
o.d.s = overall depth of system

Product	Akutex FT	Super G	Texona	Muralis
o.d.s mm	40	40	40	50
absorption class	A	A	A	A
αw	1,00	1,00	1,00	0,95

Sound Insulation: Not applicable.

Sound Privacy: AC=240 according to ASTM E 1376 and E 1110

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

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

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.

INFLUENCE OF CLIMATE The panels withstand a permanent ambient RH up to 95% at 30°C (Super G and Akutex FT surfaces) and RH up to 75% at 30°C (Texona and Muralis surfaces) without sagging, warping or delaminating (EN 13964). Thermal resistance for the panels, Rp=1,0 m²°C/W. Since a wall absorber mounted on an external wall serves as additional insulation, the need for a vapour barrier should be investigated.

INDOOR CLIMATE Certified by the Indoor Climate Labelling, emission class M1 for building materials and recommended by the Swedish Asthma and Allergy Association.

ENVIRONMENTAL INFLUENCE Glass wool core utilising 3RD Technology. Granted the Nordic Swan eco-label. Fully recyclable.

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

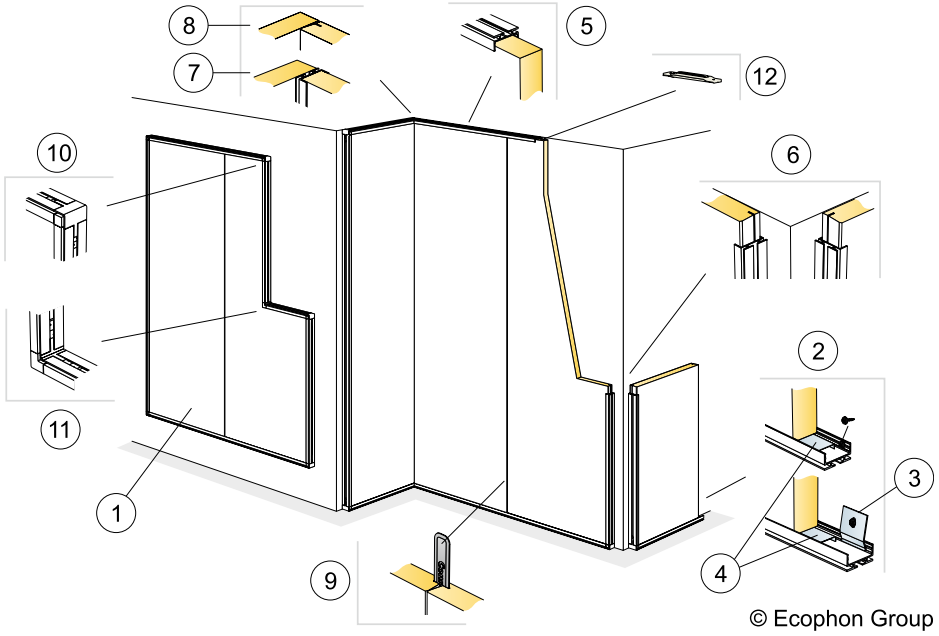
Reaction-to-fire classification

Country	Standard	Class
Europe	EN 13501-1	A2-s1,d0

MECHANICAL PROPERTIES The Texona and Muralis surfaces have moderate impact resistance. M195 and M196 with Super G surface are tested according to EN 13964 annex D and DIN 18032 part 3 and fulfils the demands corresponding to class 1A. 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. No additional live load is allowed.

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.

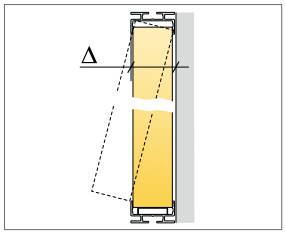
INSTALLATION DIAGRAM (M195) FOR ECOPHON AKUSTO WALL C VERTICAL INSTALLATION



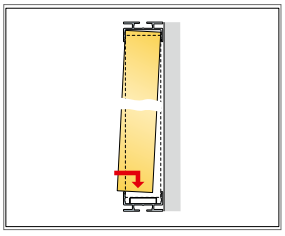
QUANTITY SPECIFICATION (EXCL. WASTAGE)

		Size, mm	
		2400x600	**2700x600**
1	Akusto Wall C	0,69/m²	0,62/m²
2	Connect WP Profile, L=2687 mm, fixed (alt. with Connect Fixing bracket), at 400 mm centres, with Connect WP Space bar, L=2400 mm	as required	as required
3	Alt. Connect Fixing bracket, fixed at 400 mm centres.	as required	as required
4	Connect WP Space bar, L=2400 mm	as required	as required
5	Connect WP Profile, L=2687 mm, fixed at 400 mm centres	as required	as required
6	External wall corner: Connect WP Profile, L=2687 mm, fixed at 400 mm centres	as required	as required
7	Internal wall corner: Cut panel and Connect WP Profile, L=2687 mm alt. full size panel without profile	as required	as required
8	Alt. Full size panel without profile	as required	as required
9	Joint between panels (Connect Spline can be used to secure the panels)	as required	as required
10	Connect WP External corner mounted in Connect WP Profile	as required	as required
11	Connect WP Internal corner mounted in Connect WP Profile	as required	as required
12	Connect WP Profile splice. used to extend WP profiles where needed.	as required	as required

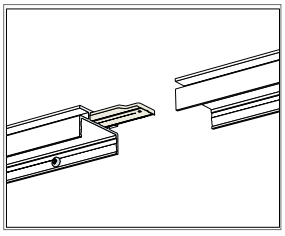
Δ Min. overall depth of system: 44 mm



See Quantity specification



Detail of installation

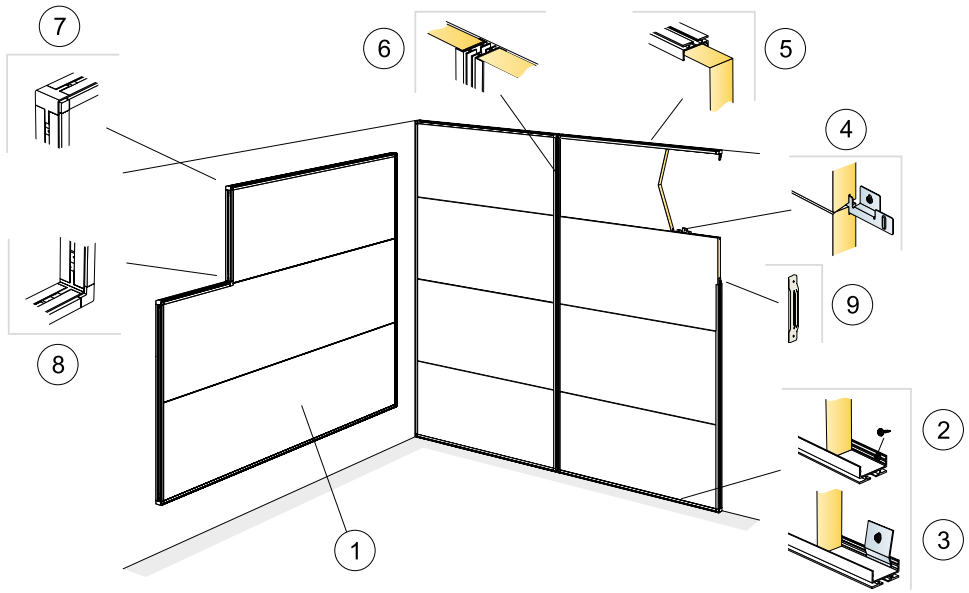


Detail of WP Profile splice

Size, mm	Max live load (N)	Min load bearing capacity (N)
2400x600	0	-
2700x600	0	-

Live load/load bearing capacity

INSTALLATION DIAGRAM (M196) FOR ECOPHON AKUSTO WALL C HORIZONTAL INSTALLATION



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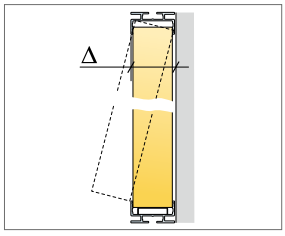
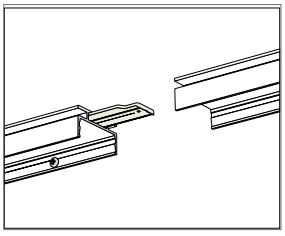
QUANTITY SPECIFICATION (EXCL. WASTAGE)

		Size, mm	
		2400x600	**2700x600**
1	Akusto Wall C	0,69/m²	0,62/m²
2	Connect WP Profile, L=2687 mm, fixed (alt. with Connect Fixing bracket) at 400 mm centres	as required	as required
3	Alt. Connect Fixing bracket, fixed at 400 mm centres.	as required	as required
4	Horizontal joint between panels: Connect Fixing plate is mounted at 500 mm centres	as required	as required
5	Connect WP Profile, L=2687 mm, fixed at 400 mm centres	as required	as required
6	Vertical joint between panels: Connect WP Profile, L=2687 mm, fixed at 400 mm centres	as required	as required
7	Connect WP External corner mounted in Connect WP Profile	as required	as required
8	Connect WP Internal corner mounted in Connect WP Profile	as required	as required
9	Connect WP Profile splice. used to extend WP profiles where needed.	as required	as required

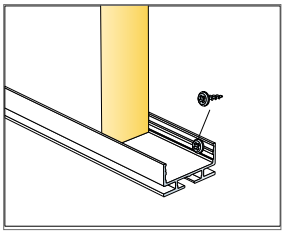
Δ Min. overall depth of system: 44 mm



See Quantity specification



Detail of WP Profile splice

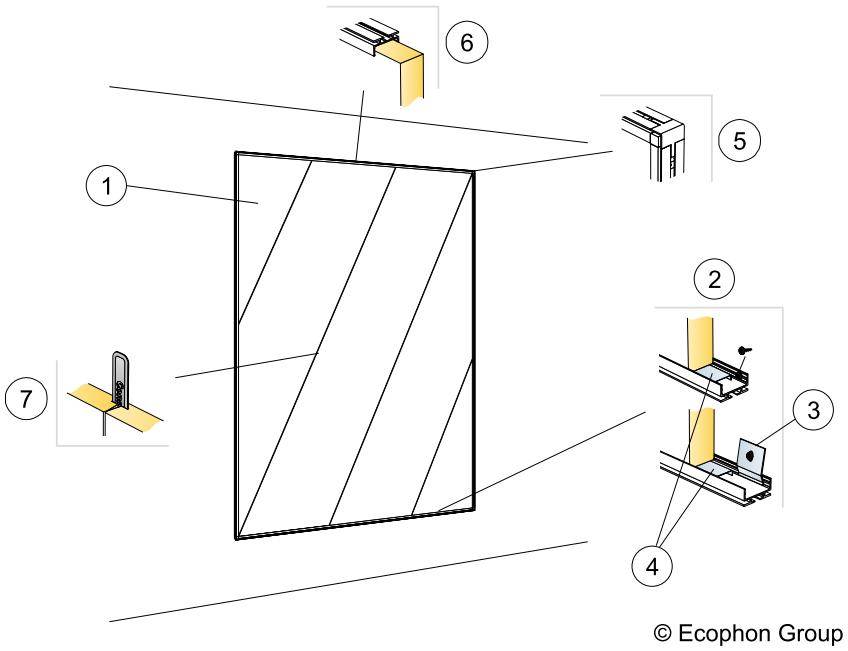


Detail of lower connection

Size, mm	Max live load (N)	Min load bearing capacity (N)
2400x600	0	-
2700x600	0	-

Live load/load bearing capacity

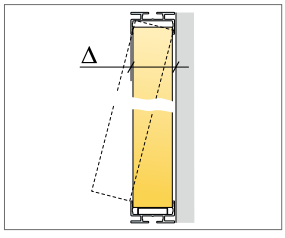
INSTALLATION DIAGRAM (M235) FOR ECOPHON AKUSTO WALL C DIAGONAL INSTALLATION



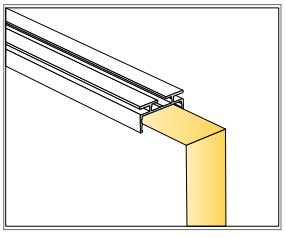
QUANTITY SPECIFICATION (EXCL. WASTAGE)

		Size, mm
		2700x600
1	Akusto Wall C	0,62/m²
2	Connect WP Profile, L=2687 mm, fixed (alt. with Connect Fixing bracket), at 400 mm centres, with Connect WP Space bar, L=2400 mm	as required
3	Alt. 1: Connect Fixing bracket, fixed at 400 mm centres.	as required
4	Connect WP Space bar, L=2400 mm	as required
5	Connect WP External corner mounted in Connect WP Profile	as required
6	Connect WP Profile, L=2687 mm, fixed at 400 mm centres	as required
7	Joint between panels (Connect Spline can be used to secure the panels)	as required

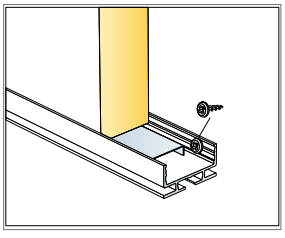
Δ Min. overall depth of system: 44 mm



See Quantity specification



Detail of upper connection

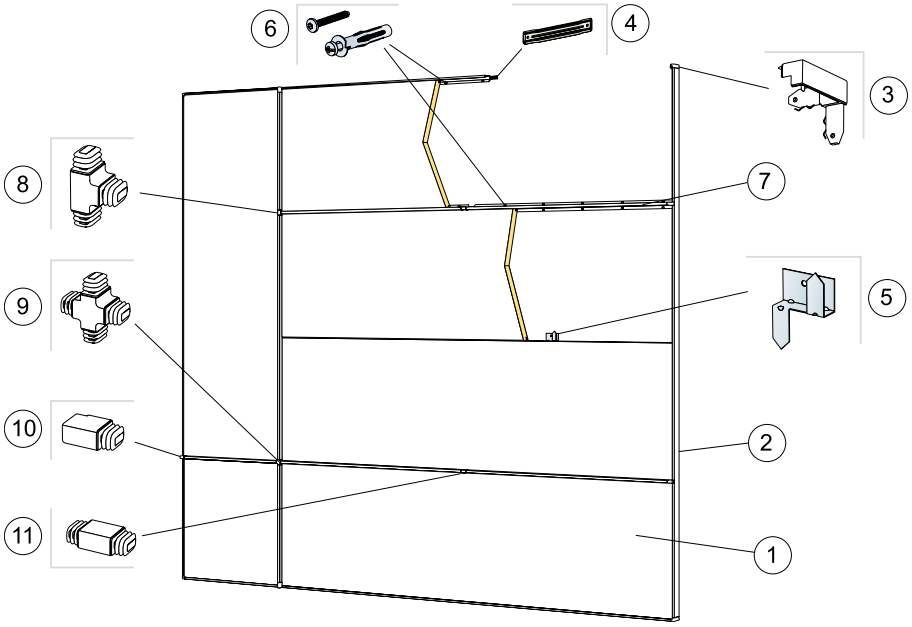


Detail of lower connection

Size, mm	Max live load (N)	Min load bearing capacity (N)
2700x600	0	-

Live load/load bearing capacity

INSTALLATION DIAGRAM (M303) FOR ECOPHON AKUSTO WALL C WITH CONNECT THINLINE PROFILES.



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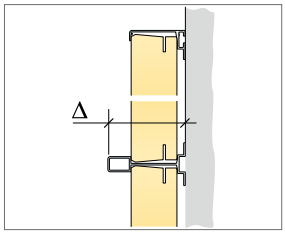
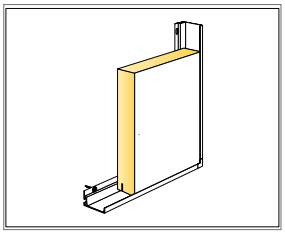
QUANTITY SPECIFICATION (EXCL. WASTAGE)

		Size, mm	
		2400x600	**2700x600**
1	Akusto Wall C	0,69/m²	0,62/m²
2	Connect Thinline profile, L=2678 mm	as required	as required
3	Connect Thinline corner	as required	as required
4	Connect Thinline splice. used to extend Thinline profiles where needed.	as required	as required
5	Connect Ambit fixing, for panel support every 1000 mm	as required	as required
6	Installation screw, installed at 200 mm centres (select fastener according to wall material)	as required	as required
7	Connect Structure profile, used to highlight or divide into patterns (optional), L=2700 mm	as required	as required
8	Connect Structure T-junction, used to create a meeting between 3 structure profiles (optional)	as required	as required
9	Connect Structute X-junction, used to create a meeting between 4 structure profiles (optional)	as required	as required
10	Connect Structure ending, used at the ends of the Structure profiles (optional)	as required	as required
11	Connect Structure I-junction, used to extend Structure profiles (optional)	as required	as required

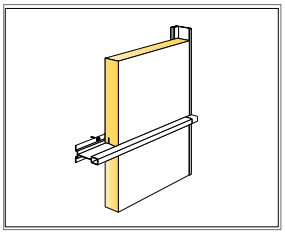
Δ Overall depth of system: 67 mm



See Quantity specification



Detail of panel with Thinline frame



Detail of panel with Structure profile

Size, mm	Max live load (N)	Min load bearing capacity (N)
2400x600	0	-
2700x600	0	-

Live load/load bearing capacity

Akusto Wall C

Ecophon Akusto™ Screen A

Ecophon Akusto Screen A is a highly efficient sound absorbing screen which together with a sound absorbing ceiling gives excellent room acoustics in open areas like open-plan offices. Akusto Screen is a vital part of an acoustic solution for TABS (Thermally Activated Building Systems) buildings. It has the same Texona surface as Akusto Wall™ which will keep your colour design consistent.

Ecophon Akusto Screen A is a high density glass wool absorber with a sound reducing core in a naturally anodised aluminum frame. Both sides have a glass fibre fabric surface (Texona). The approximate weight is 24-44 kg. It is also possible to get a 6 mm thick and 400 mm high clear glass pane on top of the screen, total height of screen 1820 mm. The feet are naturally anodised aluminum.


Akusto Screen A


Akusto Screen A, corner detail


Akusto Screen A foot detail


Akusto Screen A with glass pane

SYSTEM RANGE

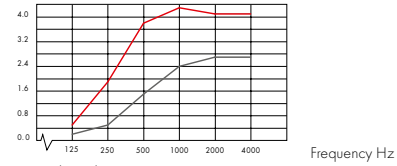
Size, mm	1420 x 1200	1420 x 1800
Free Standing	•	•
Thickness	88	88
Inst. Diagr.	M340	M340

TECHNICAL PROPERTIES

ACOUSTIC

Sound Absorption: Test results according to EN ISO 354.

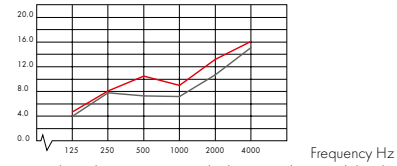
Equivalent absorption area/unit m² Sab



— Ecophon Akusto Screen A, size 1800 x 1430 mm
– Ecophon Akusto Screen A, size 1200 x 1430 mm
Screen with glass (h=1820 mm) gives the same equivalent absorption area/unit.

Sound Attenuation: Test result according to EN ISO 10053

Screen sound attenuation dB



— Ecophon Akusto Screen A, with glass pane (400 mm), height 1820 mm
– Ecophon Akusto Screen A, height 1420 mm

Weighted screen sound attenuation ΔLs,w (dB):

Screen height 1420 mm : 10 dB

Screen height 1820 mm : 12 dB

CLEANABILITY Weekly dusting and vacuum cleaning.

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

INFLUENCE OF CLIMATE The tiles withstand a permanent ambient RH up to 75% at 30°C without sagging, warping or delaminating (ISO 4611).

INDOOR CLIMATE Certified by the Indoor Climate Labelling, emission class M1 for building materials and recommended by the Swedish Asthma and Allergy Association.

ENVIRONMENTAL INFLUENCE Glass wool core utilising 3RD Technology. Granted the Nordic Swan eco-label. Fully recyclable.

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

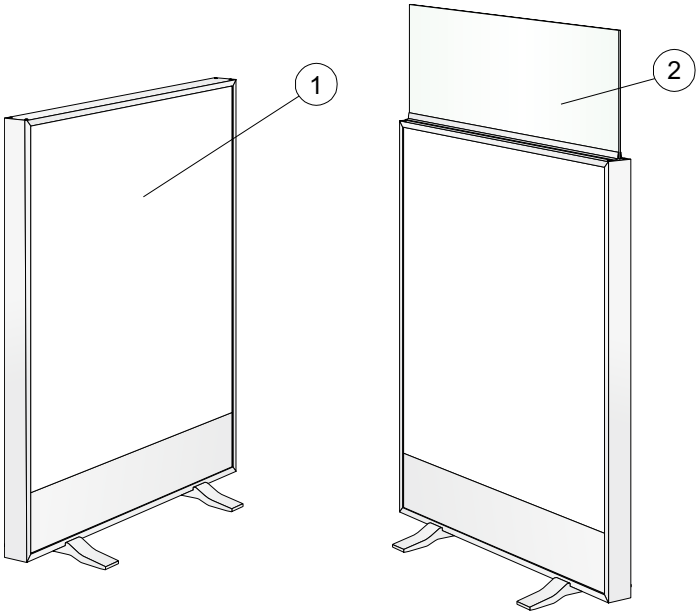
Reaction-to-fire classification

Country	Standard	Class
Europe	EN 13501-1	A2-s1,d0

MECHANICAL PROPERTIES Texona surface has moderate impact resistance.

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

INSTALLATION DIAGRAM (M340) FOR ECOPHON AKUSTO SCREEN A



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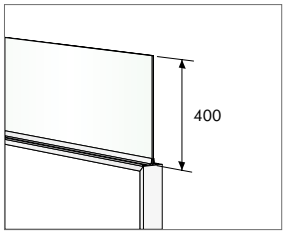
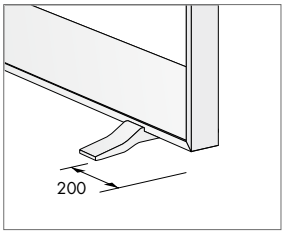
QUANTITY SPECIFICATION (EXCL. WASTAGE)

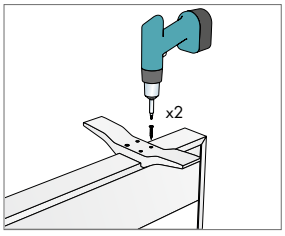
		Size, mm	
		1420x1200	**1420x1800**
1	Akusto Screen A	as required	as required
2	Akusto Screen A incl. glass pane (total height 1820 mm)	as required	as required



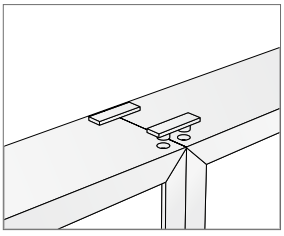
Akusto Screen incl. glass pane



Positioning of foot



Mounting of foot



Pairing of two Akusto Screens with Connect Screen connector

Ecophon®
SAINT-GOBAIN

A SOUND EFFECT ON PEOPLE

Ecophon dates back to 1958, when the first sound absorbers from glass wool were produced in Sweden to improve the acoustic working environment. Today the company is a global supplier of acoustic systems that contribute to good room acoustics and a healthy indoor environment with the focus on offices, education, health care and industrial manufacturing premises. Ecophon is part of the Saint-Gobain Group and has sales units and distributors in many countries.

Ecophon efforts are guided by a vision of earning global leadership in room acoustic comfort through sound-absorbing systems, enhancing end-user performance and wellbeing. Ecophon maintains an ongoing dialogue with government agencies, working environment organisations and research institutes, and is involved in formulating national standards in the field of room acoustics where Ecophon contributes to a better working environment wherever people work and communicate.

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