Ecophon Akusto™ Wall A

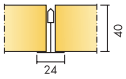
For use as wall absorbers together with a sound absorbing ceiling, to achieve excellent acoustic properties in the room. Ecophon Akusto™ Wall A has an exposed profile system.

The systems consist of Ecophon Akusto™ Wall A panels and Ecophon Connect profile systems, with an approximate weight of 4 kg/m². The panels are manufactured from high density, 3rd generation glass wool. 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.
The Texona gamma version offers a reflecting surface, see absorption diagram.

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

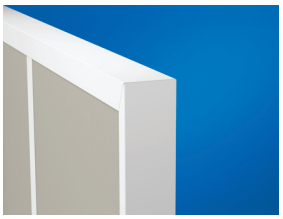
Liiketalokeskus, Tampere, Finland

SYSTEM RANGE

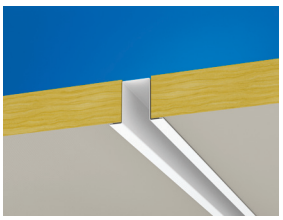


Size, mm	2700x1200
Thinline Profile	•
WP Profile	•
Thickness (THK)	40
Inst. Diagr.	M353, M304

Akusto Wall A



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



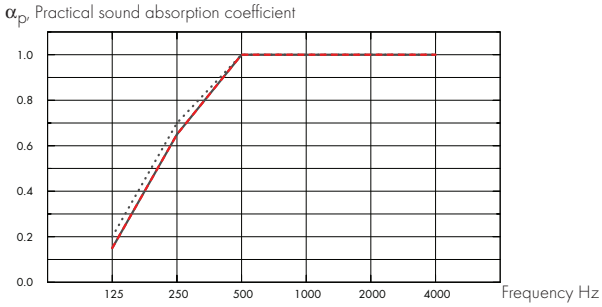
Akusto Wall A system with Connect Channel trim and Connect Recessed

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 Noice Reduction Coefficient, NRC and Sound Absorption Average, SAA according to ASTM C 423.



··· 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

	THK mm	o.d.s. mm	α_p, Practical sound absorption coefficient						α_w	Sound absorption class
			125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz		
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

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

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).

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 m^2°C/W. Since a wall absorber mounted on an external wall serves as additional insulation, the need for vapour barrier should be investigated.

Indoor Climate

Certificate / Label	
Finish M1	•
French VOC, A+	•
Swedish Asthma and Allergy Association	•
Danish Indoor Climate Label	•
California Emission Regulation, CDPH	•

Environmental influence

Fully recyclable

Fire safety

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

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

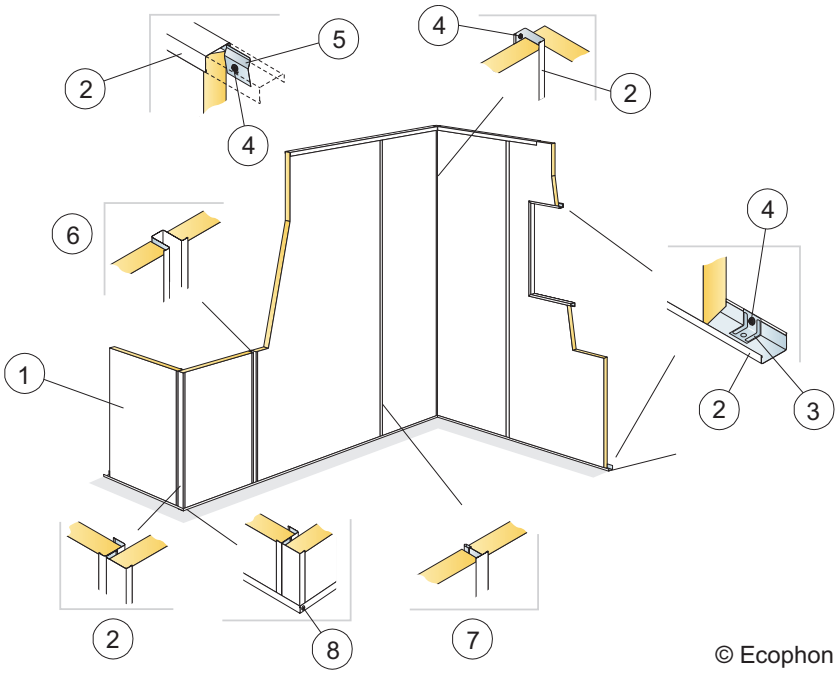
Mechanical properties

Texona surface has moderate impact resistance. Super G is a stronger glass fibre fabric with high impact resistance. M353 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 frequently will be hit by hard ball shots. In such cases a protective net in front of the system is recommended.

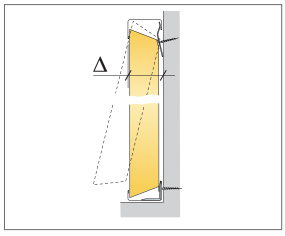
INSTALLATION DIAGRAM (M353) FOR ECOPHON AKUSTO WALL A



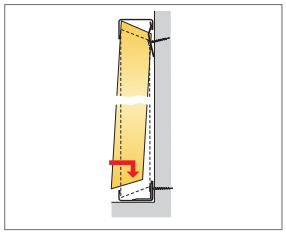
QUANTITY SPECIFICATION (EXCL. WASTAGE)

		Size, mm
		2700x1200
1	Ecophon Akusto Wall A	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
4	Connect Installation screw MVL (for use in plasterboard or timber)	as required
5	Connect Fixing bracket, fixed at 400 mm centres.	as required
6	Alt.1 Connect Recessed profile, (Installation: kept in position with the Channel trims)	as required
7	Alt.2 Connect T24 Main runner, not used in a impact resistant installation, (Installation: kept in position with the Channel trims)	as required
8	Connect Installation screw BR	as required
	Δ Min. overall depth of system: 44 mm	

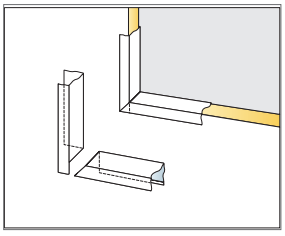
For impact resistant installations: Use HD profiles and secure with additional Connect Installation screw BR where needed.



See Quantity specification



Detail of installation

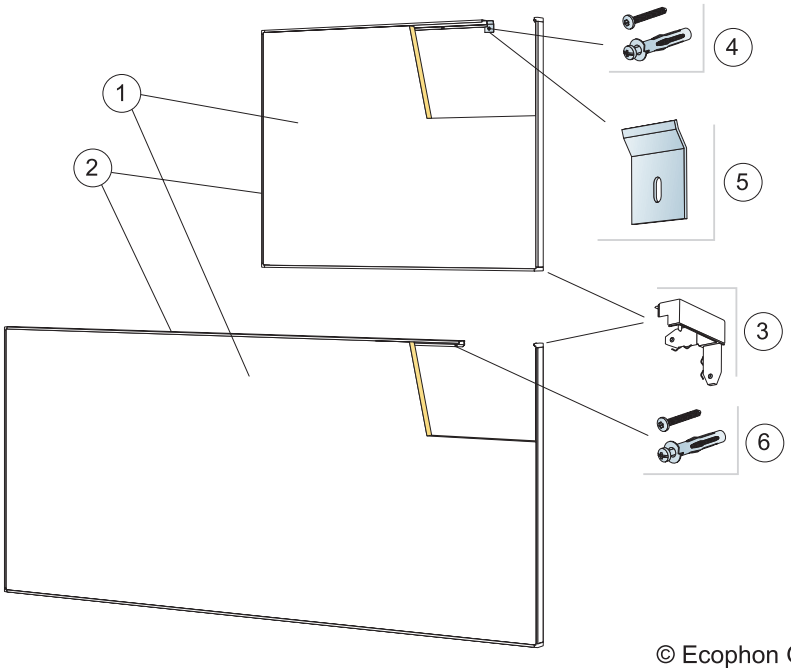


Cutting of channel trim for internal corner

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

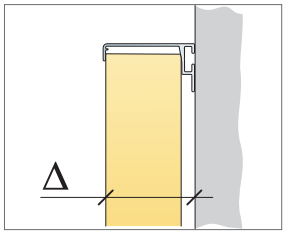
Live load/load bearing capacity

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

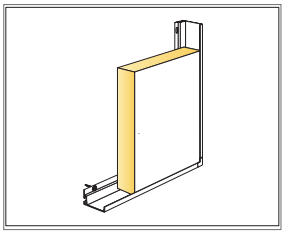


QUANTITY SPECIFICATION (EXCL. WASTAGE)

		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