

Acoustics in healthcare

A simple task with Ecophon solutions



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



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 has 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 create optimal indoor acoustic comfort, helping people to work, learn, heal and relax. Every system is continuously tested and acoustically measured, to make sure that Ecophon is always improving systems and surpassing standards in every way possible.

Pleasing to the eye, the ear and the mind

The scope of our acoustic systems covers every indoor environment, from a small meeting room in an office to healthcare facilities with the toughest hygiene requirements. 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, free-hanging units, wall panels and screens; all to give you the opportunity to achieve the atmosphere you are striving for.

Taking care of the environment

Everything Ecophon do is about people. It is therefore natural that we limit the impact we have on the environment. Our systems are 100% recyclable and our glass wool is made of more than 70% recycled glass, combined with a plant-based binder. 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.

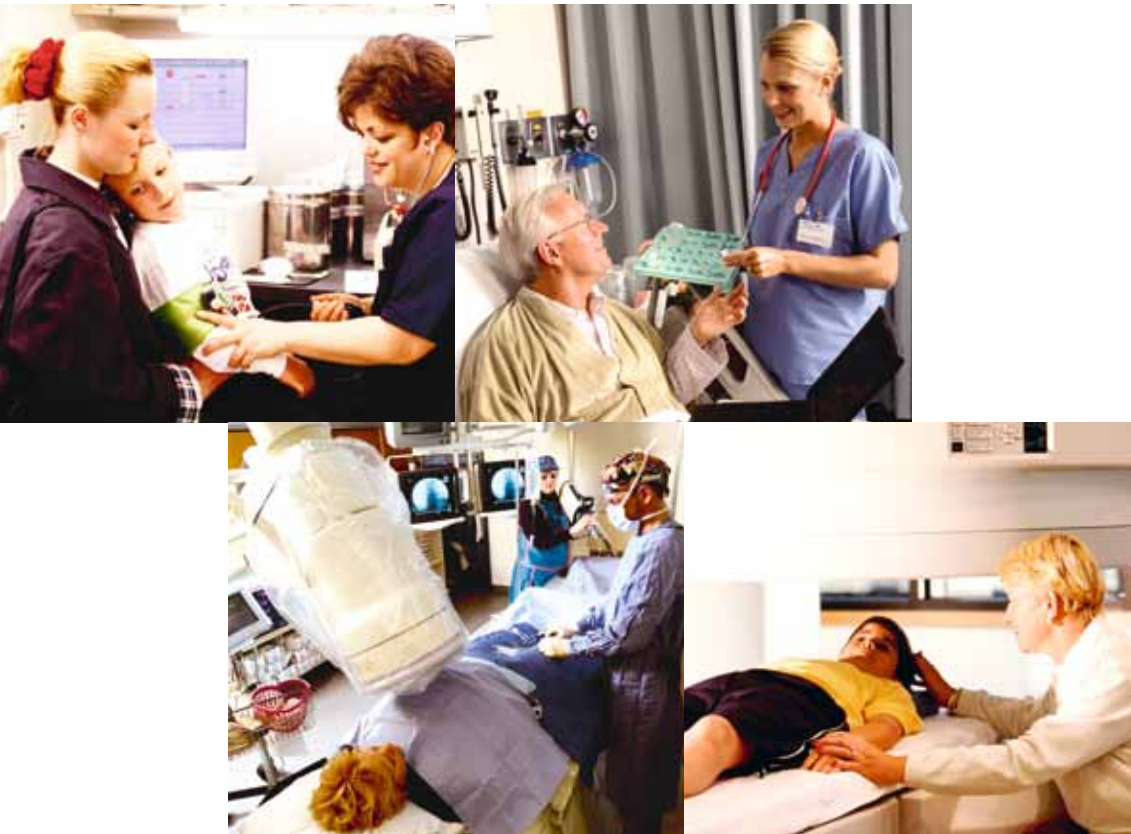
Acoustic solutions

based on hygiene demands

The basis for any Ecophon system is its acoustic performance: sound absorption class A, reducing sound propagation over distance, sound strength and reverberation; whilst improving speech clarity.

When you look at healthcare facilities you also have to think about hygiene demands. And depending on where you are in a healthcare facility, these demands may vary considerably. It is therefore only natural that the Ecophon acoustic solutions take account of hygiene demands in healthcare applications. This way you get an easy to understand formula that can be used when you design different spaces in your hospital, health centre, care residence, dental practice or other healthcare facility.

The six hygiene categories on the next page are based on the British standard HBN00-10, the French standard NF S90-351 and our own experience and knowledge.

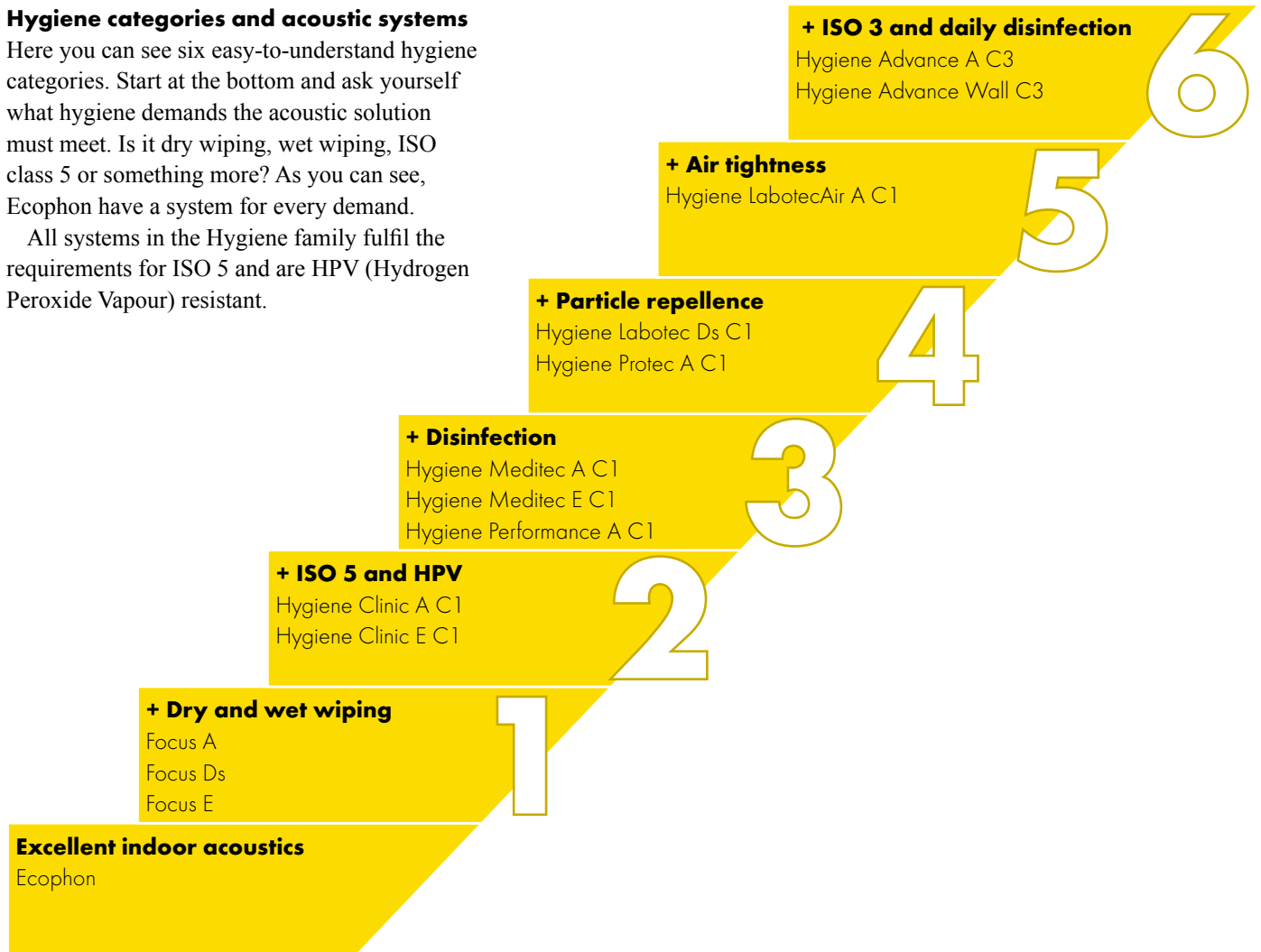




Hygiene categories and acoustic systems

Here you can see six easy-to-understand hygiene categories. Start at the bottom and ask yourself what hygiene demands the acoustic solution must meet. Is it dry wiping, wet wiping, ISO class 5 or something more? As you can see, Ecophon have a system for every demand.

All systems in the Hygiene family fulfil the requirements for ISO 5 and are HPV (Hydrogen Peroxide Vapour) resistant.





Facts and certifications

"Whilst antimicrobial-impregnated products (such as surface coatings, paints and curtains) and antimicrobial materials are available, there are, at present, no definitive data to support their efficacy in reducing healthcare-associated infection."

Health Building Note 00-10 (HBN00-10)

Ecophon acoustics and hygiene

The right acoustic treatment for healthcare facilities is very important for both patients and staff. Studies show that the benefits include:

- An overall better quality of care
- Lowered blood pressure
- Improved quality of sleep
- Reduced intake of pain medication
- Lowered stress levels
- Improved staff wellbeing and increased performance

Cleaning versus disinfection

Cleaning means getting rid of visible particles. Methods can be dry wiping and wet wiping. Chemicals used include surfactants (to dissolve dirt and fat), acids (to dissolve calcium deposits) and alkaline agents (to dissolve fat and protein-based deposits).

Disinfection means that micro-organisms, including Methicillin-resistant Staphylococcus aureus (MRSA), are killed. Methods can be wet wiping, spraying and using aerosols. Chemicals used are typically alcohols, chlorine compounds and hydrogen peroxide.

No added antimicrobials

Ecophon never use unnecessary chemicals in our products; instead we design products and surfaces that do not provide natural breeding grounds for bacteria. Our products meet the highest requirements of NF S90-351, zone 4 and American Society for Testing and Materials (ASTM) G21-96, grade 0. HBN00-10 (Performance requirements for building elements in healthcare facilities) in the UK it does not deem antimicrobial finishes as beneficial.





Ecophon certifications



The Nordic Swan eco-label stipulates requirements regarding the product's lifecycle, from raw materials to recycling.



Certification concerning emissions of substances that are hazardous to health. M1 is the highest class granted by RTS, Finland's leading information centre for the construction sector.



The Danish Indeklima label (indoor climate) looks at substances in construction materials that are potential allergens or irritants.



Ecophon products are recommended by the Swedish Asthma and Allergy Association.

This means that they have been assessed and found to be totally free from allergens, perfumes and irritating substances to a degree that no known, medically reported cases exist.



The EU standards are there to facilitate comparison between products and systems. CE marking covers such areas as sound absorption, fire safety and emissions.



Ecophon sound absorbers are subjected to inspection by the SP Technical Research Institute of Sweden so that the sound absorption capacity can be P-labelled.



The glass wool used in Ecophon sound absorbers complies in full with EU directive 97/69/EC.

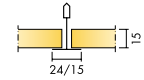
The International Agency for Research on Cancer (IARC) has classified mineral wool in group 3, which means it is not considered as a human carcinogen. Other products in group 3 include caffeine, tea and hair colouring products.

Ecophon system presentations, content

Hygiene Clinic A C1	8	Hygiene Labotec Ds C1	20
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Ecophon Hygiene Clinic™ A C1



Ecophon Hygiene Clinic A C1 is a wall to wall, sound-absorbing ceiling system intended for health care applications where a standard suspended ceiling system is required, but where strict functional requirements are needed. This system is recommended for dry environments. Examples of applications: waiting rooms, ward rooms and nurse stations. The system is classified B5 for zone 4 according to standard NF S 90-351 and clean room classified according ISO 5.

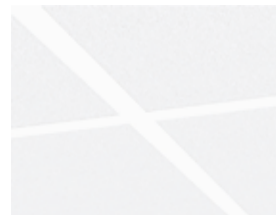
The system consists of Ecophon Hygiene Clinic A tiles and Ecophon Connect grid systems, with an approximate weight of 2,5 kg/m². The tiles are manufactured from high density glass wool utilizing the 3RD Technology. The visible surface has an Akutex™ T coating and the back of the tile is covered with glass tissue. The edges are primed. The grid is manufactured from galvanized steel corrosion class C1.



Hygiene Clinic A tile



Section of Hygiene Clinic A system



Hygiene Clinic A system

SYSTEM RANGE

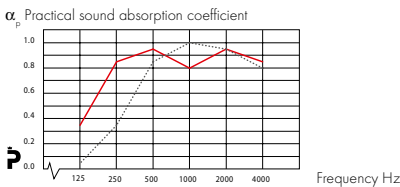
Size, mm		
	600	1200
	x	x
	600	600
T15	•	•
T24	•	•
Thickness	15	15
Inst. Diagr.	M338	M338

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.



— Ecophon Hygiene Clinic A C1 200 mm o.d.s.
 Ecophon Hygiene Clinic A C1 50 mm o.d.s.
 o.d.s = overall depth of system

Product	Hygiene Clinic A	
	50	200
o.d.s mm	50	200
absorption class	C	A
α_w	0,65	0,9
NRC	0,8	
SAA	0,8	

Sound Insulation: Not applicable.

Sound Privacy: Not applicable

ACCESSIBILITY The tiles are easily demountable. Minimum demounting depth according to installation diagrams.

CLEANABILITY Daily dusting and vacuum cleaning. Weekly wet wiping. Withstand the use of hydrogen peroxide vapour.

VISUAL APPEARANCE White 500, nearest NCS colour sample S 0500-N, 84% light reflectance (of which more than 99% is diffuse reflection)

INFLUENCE OF CLIMATE The tiles withstand a permanent ambient RH up to 95% at 30°C without sagging, warping or delaminating (ISO 4611). Fulfills the requirements B5 of zone 4 according to NF S90-351.

INDOOR CLIMATE Certified by the Indoor Climate Labelling, emission class M1 for building materials, recommended by the Swedish Asthma and Allergy Association, and can be used in rooms classified as ISO class 5 according to ISO 14644-1.

ENVIRONMENTAL INFLUENCE Granted the Nordic Swan eco-label. Fully recyclable.

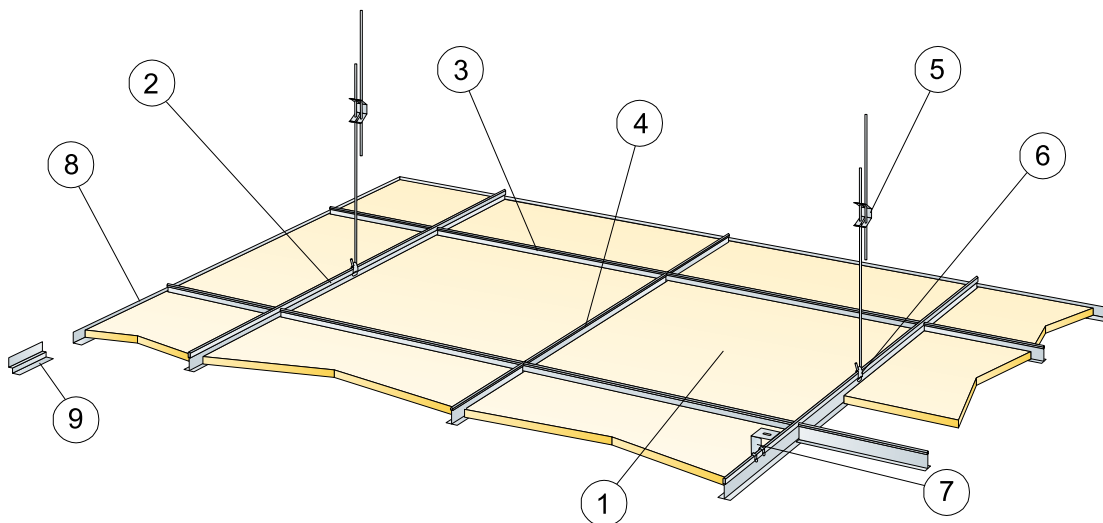
FIRE SAFETY The glass wool core of the tiles is tested and classified as non-combustible according to EN ISO 1182. The systems are classified as fire protective covering according to NT FIRE 003.

Reaction-to-fire classification

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

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

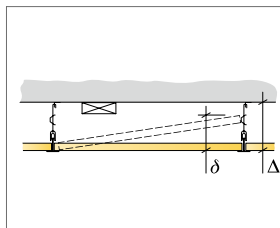
INSTALLATION Installed according to installation diagrams, installation guides and drawing aid. For information regarding minimum overall depth of system see quantity specification.



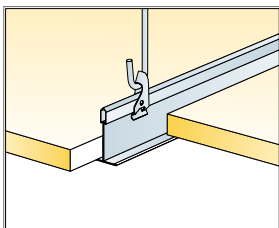
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QUANTITY SPECIFICATION (EXCL. WASTAGE)

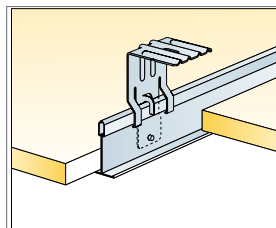
		Size, mm	
		600x600	1200x600
1	Hygiene Clinic A	2,8/m ²	1,4/m ²
2	Connect T24 or T15 Main runner, installed at 1200 mm centres (max. distance from wall 600 mm, can be extended up to 1200 mm if no live load between Main runner and wall).	0,9m/m ²	0,9m/m ²
3	Connect T24 or T15 Cross tee, L=1200 mm, installed at 600 mm centres	1,7m/m ²	1,7m/m ²
4	Connect T24 or T15 Cross tee, L=600 mm	0,9m/m ²	-
5	Connect Adjustable hanger, installed at 1200 mm centres (max. distance from wall 600 mm)	0,7/m ²	0,7/m ²
6	Connect Hanger clip	0,7/m ²	0,7/m ²
7	For direct installation: Connect Direct bracket, installed at 1200 mm centres	0,7/m ²	0,7/m ²
8	Connect Angle trim, fixed at 300 mm centres	as required	as required
9	Connect Shadow-line trim, fixed at 300 mm centres	as required	as required
Δ Min. overall depth of system, with Adjustable hanger: 100 mm, with Direct bracket: 50 mm		-	-
δ Min. demounting depth: 120 mm		-	-



See Quantity specification



Suspension with adjustable hanger and clip



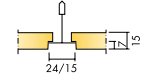
Suspension with direct bracket

Size, mm	Max live load [N]	Min load bearing capacity [N]
600x600	50	160
1200x600	50	160

Live load/load bearing capacity



Ecophon Hygiene Clinic™ E C1



Ecophon Hygiene Clinic E C1 is a wall to wall, sound-absorbing ceiling system intended for health care applications where a standard suspended ceiling system is required, but where strict functional requirements are needed. This system is recommended for dry environments. It has a recessed visible grid and a tegular edge design, creating a ceiling with a shadow effect that accentuates each tile and partially conceals the grid system. The visible surface of each tile is 7 mm below the grid. Examples of applications: waiting rooms, ward rooms and nurse stations. The system is classified B5 for zone 4 according to standard NF S 90-351 and clean room classified according ISO 5.

The system consists of Ecophon Hygiene Clinic E C1 tiles and Ecophon Connect grid systems, with an approximate weight of 2,5 kg/m². The tiles are manufactured from high density glass wool. The visible surface has an Akutex™ T coating and the back of the tile is covered with glass tissue. The edges are painted. The grid is manufactured from galvanized steel corrosion class C1. For best performance and system quality, use Ecophon Connect grid and accessories.



Hygiene Clinic E tile



Section of Hygiene Clinic E system



Hygiene Clinic E system

SYSTEM RANGE

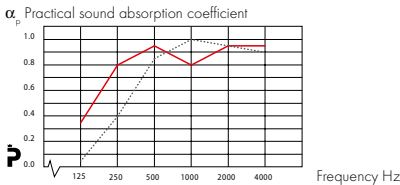
Size, mm		
	600	1200
	x	x
	600	600
T24	•	•
Thickness	15	15
Inst. Diagr.	M339	M339

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.



— Ecophon Hygiene Clinic E C1 200 mm o.d.s.
 Ecophon Hygiene Clinic E C1 60 mm o.d.s.
 o.d.s = overall depth of system

Product	Hygiene Clinic E C1	
o.d.s mm	60	200
absorption class	C	A
α_w	0,7	0,9
NRC	0,85	
SAA	0,86	

Sound Insulation: Not applicable.

Sound Privacy: Not applicable

ACCESSIBILITY The tiles are easily demountable. Minimum demounting depth according to installation diagrams.

CLEANABILITY Daily dusting and vacuum cleaning. Weekly wet wiping. Withstand the use of hydrogen peroxide vapour.

VISUAL APPEARANCE White 500, nearest NCS colour sample S 0500-N, 84% light reflectance (of which more than 99% is diffuse reflection)

INFLUENCE OF CLIMATE The tiles withstand a permanent ambient RH up to 95% at 30°C without sagging, warping or delaminating (ISO 4611). Fulfills the requirements B5 of zone 4 according to NF S90-351.

INDOOR CLIMATE Certified by the Indoor Climate Labelling, emission class M1 for building materials, recommended by the Swedish Asthma and Allergy Association, and can be used in rooms classified as ISO class 5 according to ISO 14644-1.

ENVIRONMENTAL INFLUENCE Granted the Nordic Swan eco-label. Fully recyclable.

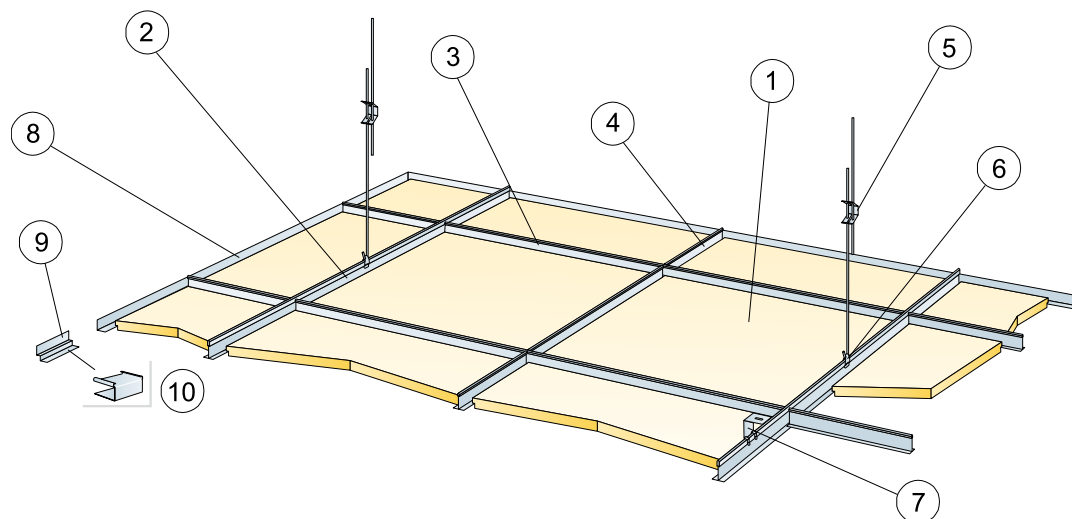
FIRE SAFETY The glass wool core of the tiles is tested and classified as non-combustible according to EN ISO 1182. The systems are classified as fire protective covering according to NT FIRE 003.

Reaction-to-fire classification

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

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

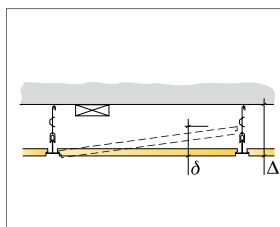
INSTALLATION Installed according to installation diagrams, installation guides and drawing aid. For information regarding minimum overall depth of system see quantity specification.



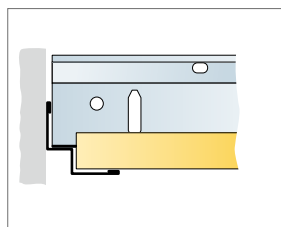
© Ecophon Group

QUANTITY SPECIFICATION (EXCL. WASTAGE)

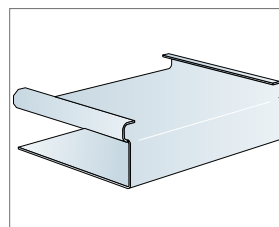
		Size, mm	
		600x600	1200x600
1	Hygiene Clinic E	2,8/m ²	1,4/m ²
2	Connect T24 or T15 Main runner, installed at 1200 mm centres (max. distance from wall 600 mm, can be extended up to 1200 mm if no live load between Main runner and wall).	0,9m/m ²	0,9m/m ²
3	Connect T24 or T15 Cross tee, L=1200 mm, installed at 600 mm centres	1,7m/m ²	1,7m/m ²
4	Connect T24 or T15 Cross tee, L=600 mm	0,9m/m ²	-
5	Connect Adjustable hanger, installed at 1200 mm centres (max. distance from wall 600 mm)	0,7/m ²	0,7/m ²
6	Connect Hanger clip	0,7/m ²	0,7/m ²
7	For direct installation: Connect Direct bracket, installed at 1200 mm centres	0,7/m ²	0,7/m ²
8	Connect Angle trim, fixed at 300 mm centres	as required	as required
9	Connect Shadow-line trim, fixed at 300 mm centres	as required	as required
10	Connect E-plug (for Shadow-line trim)	as required	as required
Δ Min. overall depth of system, with Adjustable hanger: 110 mm, with Direct bracket: 60 mm		-	-
δ Min. demounting depth: T15: 110 mm, T24: 90 mm		-	-



See Quantity specification



Straight cut, panel resting on shadow-line trim.



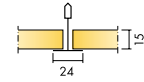
Connect E-plug

Size, mm	Max live load [N]	Min load bearing capacity [N]
600x600	50	160
1200x600	50	160

Live load/load bearing capacity



Ecophon Hygiene Meditec™ A C1



Ecophon Hygiene Meditec A C1 is a wall to wall, sound-absorbing ceiling system intended for environments where disinfection and/or cleaning is required on a regular basis. This system is recommended for dry environments. Examples of applications: consulting rooms in healthcare premises. The system is classified B1 and B5 for zone 4 according to standard NF S 90-351 and clean room classified according to ISO 5.

The system consists of Ecophon Meditec A tiles, which have a core of high density glass wool utilizing the 3RD Technology and a painted cleanable Akutex™ TH surface. The rear side of the tile is covered with glass tissue. The edges are primed. The supporting structure is an exposed Ecophon Connect T24 grid of galvanised steel. The weight of the system is approximately 2,5 kg/m². The tiles should be secured to the grid with Connect Universal clips in order to withstand pressure during cleaning and to minimise dirt traps.



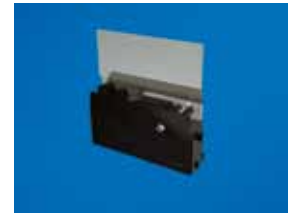
Hygiene Meditec A tile



Hygiene Meditec A C1 system



Hygiene Meditec A C1 section with Connect Universal clip



Connect Tape applicator for sealing of cut edges

SYSTEM RANGE

Size, mm	600 x 600	1200 x 600
T24	•	•
Thickness	15	15
Inst. Diagr.	M255	M255

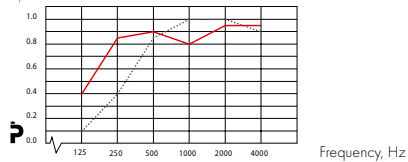
TECHNICAL PROPERTIES

ACOUSTIC

Sound Absorption: Test results according to EN ISO 354.

Classification according to EN ISO 11654.

α_p Practical sound absorption coefficient



— Ecophon Hygiene Meditec A, 200 mm o.d.s.
 Ecophon Hygiene Meditec A, 50 mm o.d.s.
 o.d.s= overall depth of system

Product	Hygiene Meditec A		
	50	200	400
o.d.s mm			
absorption class	C	A	
α_w	0,70	0,90	
NRC	0,8	-	0,85
SAA	0,83	-	0,88

Sound Insulation: Not applicable.

Sound Privacy: Not applicable

ACCESSIBILITY The tiles are demountable. Minimum demounting depth according to installation diagram. The tiles are secured using Hygiene Clip 20 to allow for effective in-situ cleaning. The clips are easily removable from above the ceiling. A tightly sealed, easy-to-open Hygiene Inspection hatch is available to simplify access to the ceiling void.

CLEANABILITY Daily dusting and vacuum cleaning. Weekly wet wiping. Can withstand the use of common disinfecting chemicals. Withstand the use of hydrogen peroxide vapour.

VISUAL APPEARANCE White 010, nearest NCS colour sample S 0502-Y, 84% light reflectance.

INFLUENCE OF CLIMATE The tiles withstand a permanent ambient RH up to 95% at 30°C without sagging, warping or delaminating (ISO 4611). A higher temperature/moisture is permissible during washing as stated above. Microbiological growth class 0 according to ASTM G 21-96. Fulfills the requirements B1 and B5 of zone 4 according to NF S90-351. The grid and accessories meet the demands of corrosion class C1 according to EN ISO 12944-2.

INDOOR CLIMATE Certified by the Indoor Climate Labelling, emission class M1 for building materials, recommended by the Swedish Asthma and Allergy Association, and can be used in rooms classified as ISO class 5 according to ISO 14644-1.

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

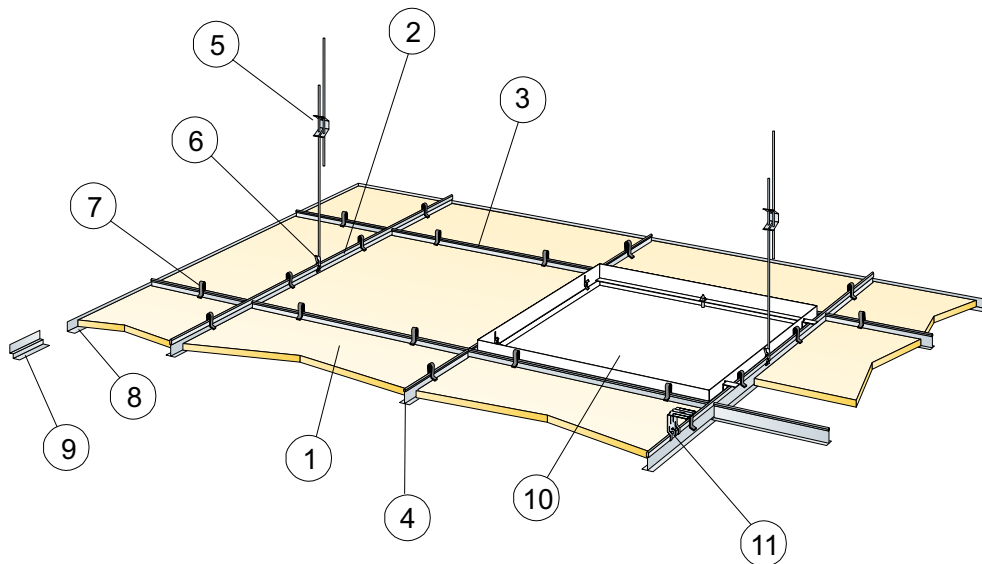
FIRE SAFETY The glass wool core of the tiles is tested and classified as non-combustible according to EN ISO 1182. The systems are classified as fire protective covering according to NT FIRE 003.

Reaction-to-fire classification

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

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

INSTALLATION Installed according to installation diagrams, installation guides and drawing aid. Cut panels must be sealed with Connect sealing tape using the Connect Tape applicator, or Connect Edge sealant. Penetrations must be sealed with a suitable sealant.



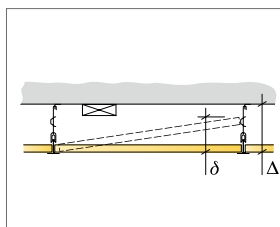
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QUANTITY SPECIFICATION (EXCL. WASTAGE)

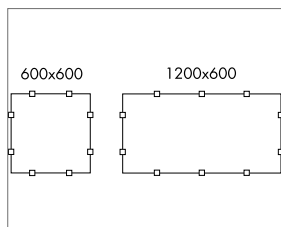
		Size, mm	
		600x600	1200x600
1	Hygiene Meditec A	2,8/m ²	1,4/m ²
2	Connect T24 Main runner, installed at 1200 mm centres (max distance from wall 300 mm)	0,9m/m ²	0,9m/m ²
3	Connect T24 Cross tee, L=1200 mm, installed at 600 mm centres	1,7m/m ²	1,7m/m ²
4	Connect T24 Cross tee, L=600 mm	0,9m/m ²	-
5	Connect Adjustable hanger, installed at 1200 mm centres (max. distance from wall 600 mm)	0,7/m ²	0,7/m ²
6	Connect Hanger clip	0,7/m ²	0,7/m ²
7	Connect Universal clip	11/m ²	7/m ²
8	Alt. Connect Angle trim, fixed c300	as required	as required
9	Alt. Connect Shadow-line trim, fixed c300	as required	as required
10	Connect Inspection hatch C1	as required	as required
11	For direct installation without clip: Connect Direct bracket, installed at 1200 mm centres	0,7/m ²	0,7/m ²

Δ Min. overall depth of system, with Adjustable hanger and clip: 150 mm, with Direct fixing without clip: 50 mm.

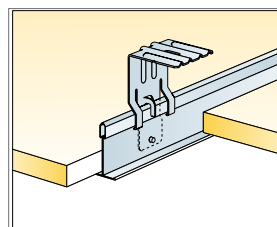
δ Min. demounting depth: With clip: 150 mm. Without clip: 100 mm.



See Quantity specification



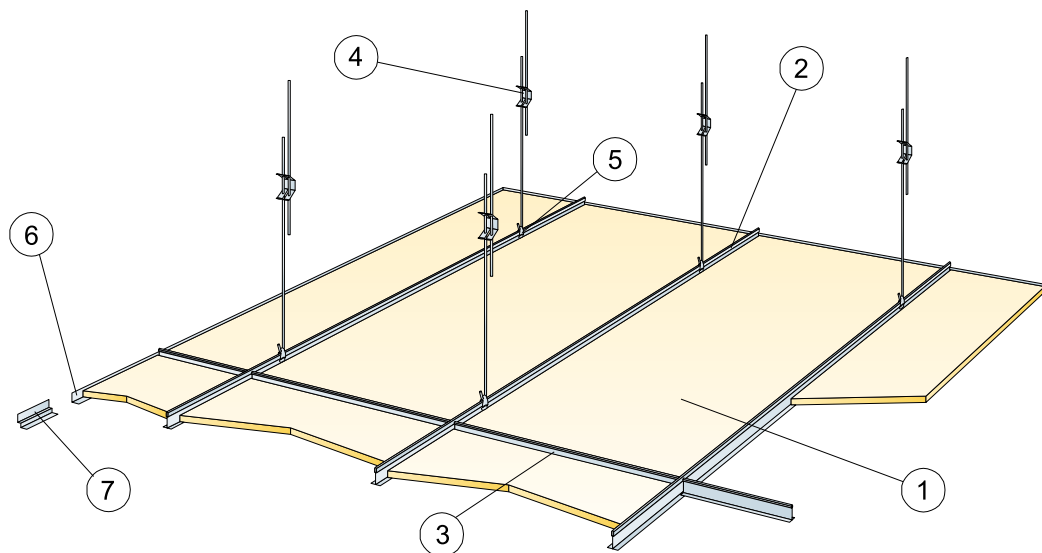
Arrangement of clips



Suspension with direct bracket

Size, mm	Max live load [N]	Min load bearing capacity [N]
600x600	50	160
1200x600	50	160

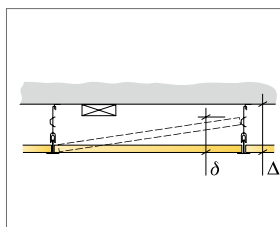
Live load/load bearing capacity



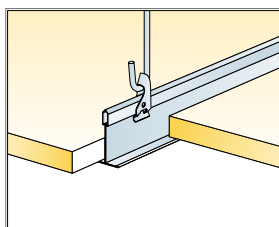
© Ecophon Group

QUANTITY SPECIFICATION (EXCL. WASTAGE)

		Size, mm			
		1600x600	1800x600	2000x600	2400x600
1	Hygiene Meditec A XL	1,05/m ²	0,95/m ²	0,85/m ²	0,7/m ²
2	Connect T24 Main runner, installed at 600 mm centres	1,7m/m ²	1,7m/m ²	1,7m/m ²	1,7m/m ²
3	Connect T24 Cross tee, l=600 mm	0,65m/m ²	0,6m/m ²	0,5m/m ²	0,45m/m ²
4	Connect Adjustable hanger, installed at 1500 mm centres (max. distance from wall 450 mm)	1,1/m ²	1,1/m ²	1,1/m ²	1,1/m ²
5	Connect Hanger clip	1,1/m ²	1,1/m ²	1,1/m ²	1,1/m ²
6	Connect Angle trim, fixed at 300 mm centres	as required	as required	as required	as required
7	Connect Shadow-line trim, fixed at 300 mm centres	as required	as required	as required	as required
Δ Min. overall depth of system: 100 mm		-	-	-	-
δ Min. demounting depth: 100 mm		-	-	-	-



See Quantity specification



Suspension with adjustable hanger and clip

Size, mm	Max live load [N]	Min load bearing capacity [N]
1600x600	50	160
1800x600	50	160
2000x600	50	160
2400x600	50	160

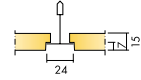
Live load/load bearing capacity

Ecophon Hygiene Meditec™ A C1





Ecophon Hygiene Meditec™ E C1



Ecophon Hygiene Meditec E C1 is a wall to wall, sound-absorbing ceiling system intended for environments where disinfection and/or cleaning is required on a regular basis. This system is recommended for dry environments. It has a recessed visible grid and a tegular edge design, creating a ceiling with a shadow effect that accentuates each tile and partially conceals the grid system. The visible surface of each tile is 7 mm below the grid. Examples of applications: consulting rooms in healthcare premises. The system is classified B1 and B5 for zone 4 according to standard NF S 90-351 and clean room classified according ISO 5.

The system consists of Ecophon Meditec E tiles, which have a core of high density glass wool utilizing the 3RD Technology and a painted cleanable Akutex™ TH surface. The rear side of the tile is covered with glass tissue. The edges are painted. The supporting structure is an exposed Connect T24 grid of galvanised steel. The weight of the system is approximately 2,5 kg/m². The tiles should be secured to the grid with Connect Universal clips in order to withstand pressure during cleaning and to minimise dirt traps.



Hygiene Meditec E tile



Hygiene Meditec E C1 system



Hygiene Meditec E C1 section with Connect Universal clip

SYSTEM RANGE

Size, mm		
	600	1200
	x	x
	600	600
T24	•	•
Thickness	15	15
Inst. Diagr.	M256	M256

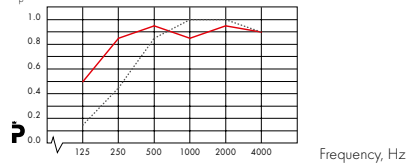
TECHNICAL PROPERTIES

ACOUSTIC

Sound Absorption: Test results according to EN ISO 354.

Classification according to EN ISO 11654.

α_p Practical sound absorption coefficient



— Ecophon Hygiene Meditec E, 200 mm o.d.s.
 Ecophon Hygiene Meditec E, 60 mm o.d.s.
 o.d.s.= overall depth of system

Product	Hygiene Meditec E		
	60	200	400
o.d.s mm			
absorption class	C	A	
α_w	0,75	0,95	
NRC	0,9	-	0,85
SAA	0,87	-	0,84

Sound Insulation: Not applicable.

Sound Privacy: Not applicable

ACCESSIBILITY The tiles are demountable. Minimum demounting depth according to installation diagram. The tiles are secured using Hygiene Clip 20 to allow for effective in-situ cleaning. The clips are easily removable from above the ceiling. A tightly sealed, easy-to-open Hygiene Inspection hatch is available to simplify access to the ceiling void.

CLEANABILITY Daily dusting and vacuum cleaning. Weekly wet wiping. Can withstand the use of common disinfecting chemicals. Withstand the use of hydrogen peroxide vapour.

VISUAL APPEARANCE White 010, nearest NCS colour sample S 0502-Y, 84% light reflectance.

INFLUENCE OF CLIMATE The tiles withstand a permanent ambient RH up to 95% at 30°C without sagging, warping or delaminating (ISO 4611). A higher temperature/moisture is permissible during washing as stated above. Microbiological growth class 0 according to ASTM G 21-96. Fulfills the requirements B1 and B5 of zone 4 according to NF S90-351. The grid and accessories meet the demands of corrosion class C1 according to EN ISO 12944-2.

INDOOR CLIMATE Certified by the Indoor Climate Labelling, emission class M1 for building materials, recommended by the Swedish Asthma and Allergy Association, and can be used in rooms classified as ISO class 5 according to ISO 14644-1.

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

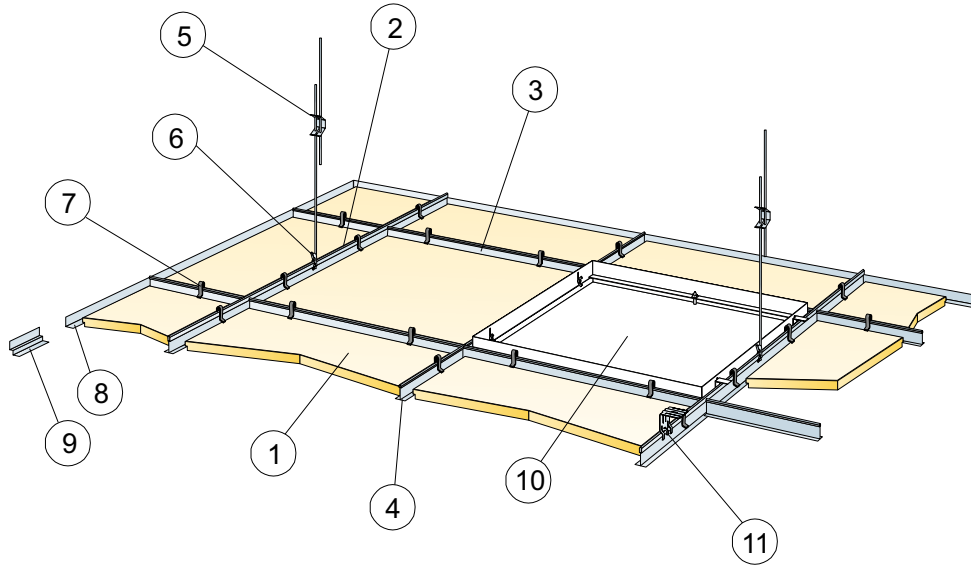
FIRE SAFETY The glass wool core of the tiles is tested and classified as non-combustible according to EN ISO 1182. The systems are classified as fire protective covering according to NT FIRE 003.

Reaction-to-fire classification

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

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

INSTALLATION Installed according to installation diagrams, installation guides and drawing aid. Cut panels must be sealed with Connect Edge sealant.



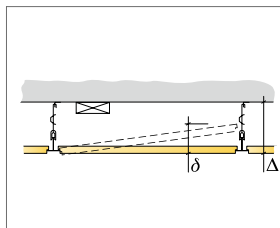
© Ecophon Group

QUANTITY SPECIFICATION (EXCL. WASTAGE)

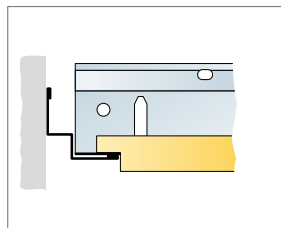
		Size, mm	
		600x600	1200x600
1	Hygiene Meditec E	2,8/m ²	1,4/m ²
2	Connect T24 Main runner, installed at 1200 mm centres (max distance from wall 300 mm)	0,9m/m ²	0,9m/m ²
3	Connect T24 Cross tee, L=1200 mm, installed at 600 mm centres	1,7m/m ²	1,7m/m ²
4	Connect T24 Cross tee, L=600 mm	0,9m/m ²	-
5	Connect Adjustable hanger, installed at 1200 mm centres (max. distance from wall 600 mm)	0,7/m ²	0,7/m ²
6	Connect Hanger clip	0,7/m ²	0,7/m ²
7	Connect Universal clip	11/m ²	7/m ²
8	Alt. Connect Angle trim, fixed c300	as required	as required
9	Alt. Connect Shadow-line trim, fixed c300	as required	as required
10	Connect Inspection hatch C1	as required	as required
11	For direct installation without clip: Connect Direct bracket, installed at 1200 mm centres	0,7/m ²	0,7/m ²

Δ Min. overall depth of system, with Adjustable hanger and clip: 160 mm, with Direct fixing without clip: 60 mm.

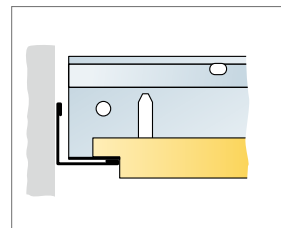
δ Min. demounting depth: With clip: 160 mm. Without clip: 110 mm.



See Quantity specification



Shadow-line trim with Meditec Tile



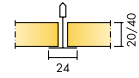
Angle trim with Meditec Tile

Size, mm	Max live load [N]	Min load bearing capacity [N]
600x600	50	160
1200x600	50	160

Live load/load bearing capacity



Ecophon Hygiene Performance™ A C1



Ecophon Hygiene Performance A C1 is a wall to wall, sound-absorbing ceiling system intended for environments where there is a risk for slight contamination, and where cleaning is required on a regular basis. This system is recommended in dry environments. Examples of applications: canteens, locker rooms and toilets. The system is classified B1 and B5 for zone 4 according to standard NF S 90-351 and clean room classified according ISO 5.

The system consists of Ecophon Hygiene Performance A tiles, which have a core of high density glass utilizing the 3RD Technology wool and a painted cleanable Akutex TH surface. The back of the tile is covered with glass tissue. The edges are primed. The supporting structure is an exposed Connect T24 grid of galvanised steel. The weight of the system is 3-4 kg/m²(20 mm) and 5 kg/m²(40 mm). The tiles should be secured to the grid with Connect Hygiene clips in order to withstand pressure during cleaning and to minimise dirt traps.



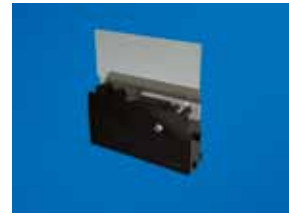
Hygiene Performance A tile



Hygiene Performance A system



Hygiene Performance A C1 section with Connect Hygiene clip 20



Connect Tape applicator for sealing of cut edges

SYSTEM RANGE

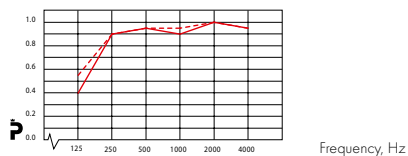
Size, mm	600 x 600	600 x 600	1200 x 600	1200 x 600
T24	•	•	•	•
Thickness	20	40	20	40
Inst. Diag.	M253	M253	M253	M253

TECHNICAL PROPERTIES

ACOUSTIC

Sound Absorption: Test results according to EN ISO 354. Classification according to EN ISO 11654.

α_p Practical sound absorption coefficient



— Ecophon Hygiene Performance A C1, 20 mm, 200 mm o.d.s.
 - - - Ecophon Hygiene Performance A C1, 40 mm, 200 mm o.d.s.
 o.d.s= overall depth of system

Product	Hygiene Performance A C1, 20 mm	Hygiene Performance A C1, 40 mm
o.d.s mm	200	200
absorption class	A	A
α_w	0,95	1,0
NRC	0,95	0,85
SAA	0,93	0,88

Sound Insulation: Not applicable

Sound Privacy: Not applicable

ACCESSIBILITY The tiles are demountable. Minimum demounting depth according to installation diagram. The tiles are secured using clips to allow for effective cleaning. The clips are easily removable from above the ceiling. An easy-to-open Connect Inspection hatch is available to simplify access to the ceiling void.

CLEANABILITY Daily dusting and vacuum cleaning. Weekly wet wiping. Can withstand the use of common disinfecting chemicals. Withstand the use of hydrogen peroxide vapor.

VISUAL APPEARANCE White 010, nearest NCS colour sample S 0502-Y, 84% light reflectance.

INFLUENCE OF CLIMATE The tiles withstand a permanent ambient RH up to 95% at 30°C without sagging, warping or delaminating (ISO 4611). A higher temperature/moisture is permissible during washing as stated above. Microbiological growth class 0 according to ASTM G 21-96. Fulfills the requirements B1 and B5 of zone 4 according to NF S90-351. The grid and accessories meet the demands of corrosion class C1 according to EN ISO 12944-2.

INDOOR CLIMATE Certified by the Indoor Climate Labelling, emission class M1 for building materials, recommended by the Swedish Asthma and Allergy Association, and can be used in rooms classified as ISO class 5 according to ISO 14644-1.

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

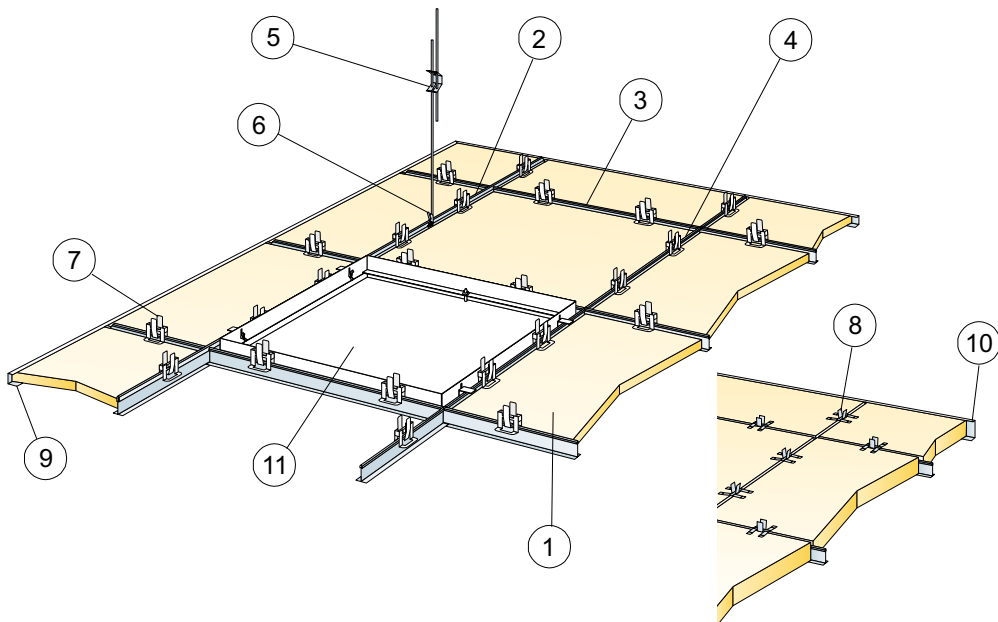
FIRE SAFETY The glass wool core of the tiles is tested and classified as non-combustible according to EN ISO 1182. The systems are classified as fire protective covering according to NT FIRE 003.

Reaction-to-fire classification

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

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

INSTALLATION Installed according to installation diagrams, installation guides and drawing aid. Cut panels must be sealed with Connect sealing tape using the Connect Tape applicator, or Connect Edge sealant. Penetrations must be sealed with a suitable sealant.



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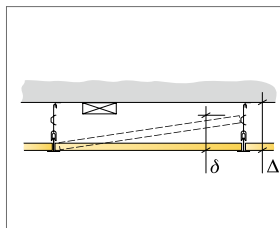
QUANTITY SPECIFICATION (EXCL. WASTAGE)

	Size, mm	
	600x600	1200x600
1 Hygiene Performance A	2,8/m ²	1,4/m ²
2 Connect T24 Main runner, installed at 1200 mm centres (max distance from wall 300 mm)	0,9m/m ²	0,9m/m ²
3 Connect T24 Cross tee, L=1200 mm, installed at 600 mm centres	1,7m/m ²	1,7m/m ²
4 Connect T24 Cross tee, L=600 mm	0,9m/m ²	-
5 Connect Adjustable hanger, installed at 1200 mm centres (max. distance from wall 600 mm)	0,7/m ²	0,7/m ²
6 Connect Hanger clip	0,7/m ²	0,7/m ²
7 Connect Hygiene clip 20	11/m ²	7/m ²
8 Connect Hygiene clip 40	11/m ²	7/m ²
9 Connect Channel trim, fixed c300 (for 20 mm thickness)	as required	as required
10 Connect Channel trim, fixed c300 (for 40 mm thickness)	as required	as required
11 Connect Inspection hatch C1	as required	as required

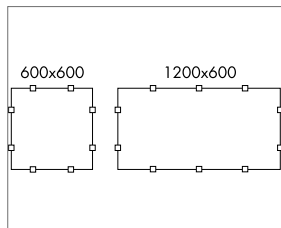
Δ Min. overall depth of system: 150 mm

δ Min. demounting depth 20 mm: 150 mm

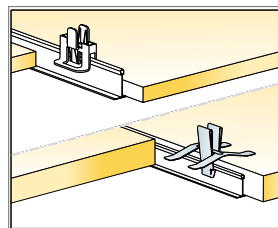
δ Min. demounting depth 40 mm: 170 mm



See Quantity specification



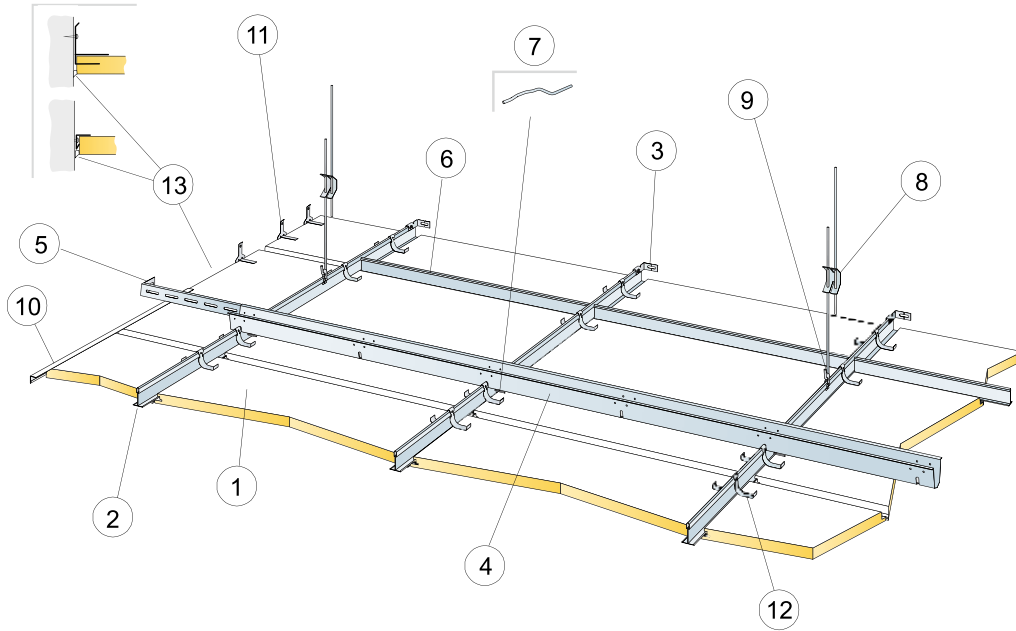
Arrangement of clips



Clips for keeping tiles in position

Size, mm	Max live load [N]	Min load bearing capacity [N]
600x600	50	160
1200x600	50	160

Live load/load bearing capacity



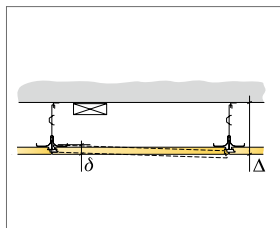
© Ecophon Group

QUANTITY SPECIFICATION (EXCL. WASTAGE)

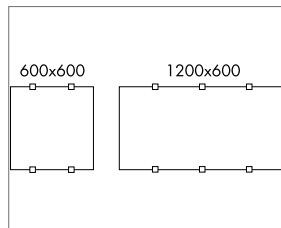
	Size, mm	
	600x600	1200x600
1 Hygiene Labotec Ds	2,8/m ²	1,4/m ²
2 Connect T24 Main runner HD, installed at 600 mm centres	1,7m/m ²	1,7m/m ²
3 Connect Wall bracket for T-profiles	1 for every row of suspended Main runner HD	
4 Connect Space bar, installed at 1500 mm centres (max. distance from wall 300 mm)	0,7m/m ²	0,7m/m ²
5 Connect Wall bracket, L=700 mm, for Space bar	1 for every row of Space bar	
6 Connect T24 Cross tee, L=600 mm	2per row of Main runner	
7 Connect Space bar winch, installed one per joint Main runner/Space bar	1,4/m ²	1,4/m ²
8 Connect Adjustable hanger, installed at 1200 mm centres (max. distance from wall 600 mm)	0,7/m ²	0,7/m ²
9 Connect Hanger clip	0,7/m ²	0,7/m ²
10 Alt. Connect Frieze trim, fixed c300 mm	as required	as required
11 Connect Frieze bracket, installed at 500 mm centre. Minimum free depth above tile 150 mm.	2/cut tile with one bearing edge	3/cut tile with one bearing edge
12 Connect Hold down clip Ds	2/tile, 50-100 mm from corners	3/tile, 50-100 mm from corners
13 Joint sealant (not supplied by Ecophon)	as required	as required

Δ Min. overall depth of system: 170 mm

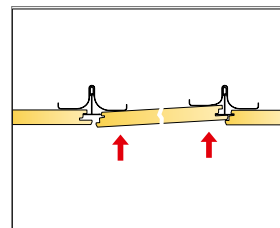
δ Min. demounting depth: 30 mm



See Quantity specification



Arrangement of clips



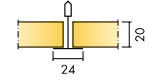
Demounting of tile from below

Size, mm	Max live load [N]	Min load bearing capacity [N]
600x600	50	160
1200x600	50	160

Live load/load bearing capacity



Ecophon Hygiene Protec™ A C1



Ecophon Hygiene Protec A C1 is a wall to wall, sound-absorbing ceiling system intended for environments where there are demands on low particle emission and where occasional wet wiping and/or disinfection is required. Examples of applications: theatre suites in health care premises, the pharmaceutical and electronics industries. The system is classified B1,B5 and B10 for zone 4 according to standard NF S 90-351 and clean room classified according ISO 5.

The system consists of Ecophon Hygiene Protec A tiles, which have a core of high density glass wool utilizing the 3RD Technology and a painted particle-repellent Akutex™ HP surface. The rear side and the edges are painted. The supporting structure is an exposed Connect T24 grid of galvanised steel. The weight of the system is 3-4 kg/m². The tiles should be secured to the grid with Connect Hygiene clips in order to withstand pressure during cleaning and to minimise dirt traps.



Hygiene Protec A tile



Hygiene Protec A system



Hygiene Protec A C1 section with Connect Hygiene clip 20



Connect Tape applicator for sealing of cut edges

SYSTEM RANGE

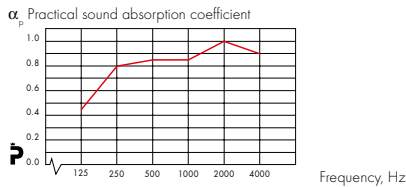
Size, mm	600 x 600	1200 x 600
T24	•	•
Thickness	20	20
Inst. Diagr.	M257	M257

TECHNICAL PROPERTIES

ACOUSTIC

Sound Absorption: Test results according to EN ISO 354.

Classification according to EN ISO 11654.



— Ecophon Hygiene Protec A, 200 mm o.d.s.
o.d.s= overall depth of system

Product	Hygiene Protec A	
	200	400
o.d.s mm	200	400
absorption class	A	
$\alpha_{0.5}$	0,90	
NRC	0,90	0,85
SAA	0,89	0,84

Sound Insulation: Not applicable.

Sound Privacy: Not applicable

ACCESSIBILITY The tiles are demountable. Minimum demounting depth according to installation diagram. The tiles are secured using Hygiene Clip 20 to allow for effective in-situ cleaning. The clips are easily removable from above the ceiling. A tightly sealed, easy-to-open Hygiene Inspection hatch is available to simplify access to the ceiling void.

CLEANABILITY Daily dusting and vacuum cleaning. Weekly wet wiping. Can withstand the use of common disinfecting chemicals. Withstand the use of hydrogen peroxide vapour.

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

INFLUENCE OF CLIMATE The tiles withstand a permanent ambient RH up to 95% at 30°C without sagging, warping or delaminating (ISO 4611). A higher temperature/moisture is permissible during washing as stated above. Microbiological growth class 0 according to ASTM G 21-96. Fulfills the requirements B1,B5 and B10 of zone 4 according to NF S90-351. The grid and accessories meet the demands of corrosion class C1 according to EN ISO 12944-2.

INDOOR CLIMATE Certified by the Indoor Climate Labelling, emission class M1 for building materials, recommended by the Swedish Asthma and Allergy Association, and can be used in rooms classified as ISO class 5 according to ISO 14644-1.

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

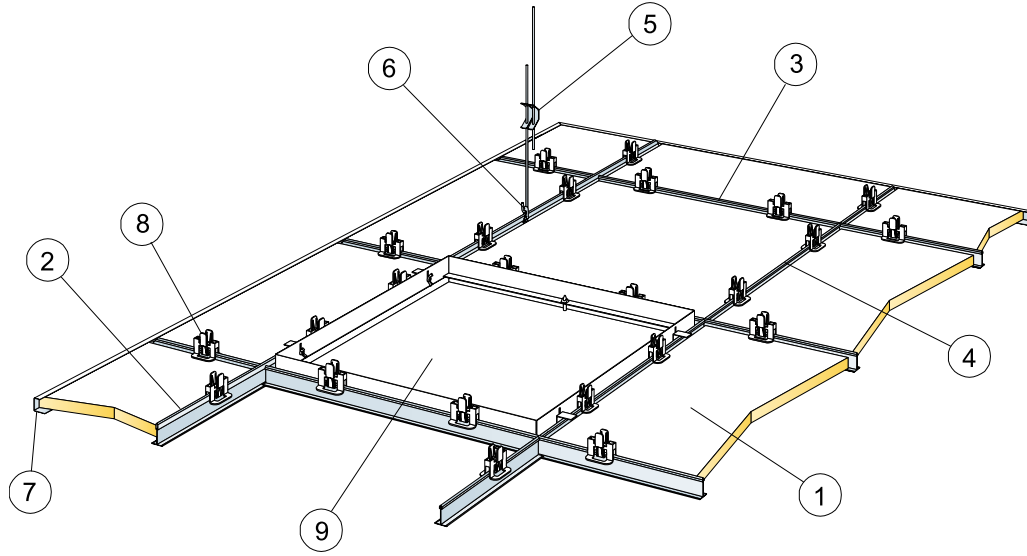
FIRE SAFETY The glass wool core of the tiles is tested and classified as non-combustible according to EN ISO 1182. The systems are classified as fire protective covering according to NT FIRE 003.

Reaction-to-fire classification

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

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

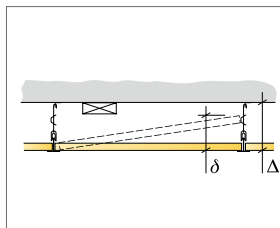
INSTALLATION Installed according to installation diagrams, installation guides and drawing aid. Cut panels must be sealed with Connect sealing tape using the Connect Tape applicator, or Connect Edge sealant. Penetrations must be sealed with a suitable sealant.



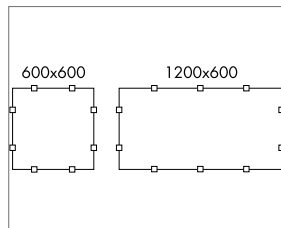
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QUANTITY SPECIFICATION (EXCL. WASTAGE)

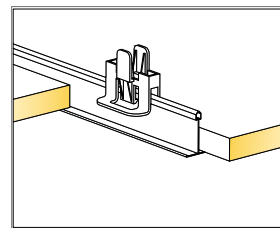
		Size, mm	
		600x600	1200x600
1	Hygiene Protec A	2,8/m ²	1,4/m ²
2	Connect T24 Main runner, installed at 1200 mm centres (max distance from wall 300 mm)	0,9m/m ²	0,9m/m ²
3	Connect T24 Cross tee, L=1200 mm, installed at 600 mm centres	1,7m/m ²	1,7m/m ²
4	Connect T24 Cross tee, L=600 mm	0,9m/m ²	-
5	Connect Adjustable hanger, installed at 1200 mm centres (max. distance from wall 600 mm)	0,7/m ²	0,7/m ²
6	Connect Hanger clip	0,7/m ²	0,7/m ²
7	Connect Channel trim, fixed c300	as required	as required
8	Connect Hygiene clip 20	11/m ²	7/m ²
9	Connect Inspection hatch C1	as required	as required
Δ Min. overall depth of system: 150 mm			
δ Min. demounting depth: 150 mm			



See Quantity specification



Arrangement of clips



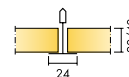
Clips for keeping tiles in position

Size, mm	Max live load [N]	Min load bearing capacity [N]
600x600	50	160
1200x600	50	160

Live load/load bearing capacity



Ecophon Hygiene LabotecAir™ A C1



Ecophon Hygiene LabotecAir A C1 is a wall to wall, sound-absorbing ceiling system intended for environments where there are demands on low particle emission, air pressure control and where occasional wet wiping and/or disinfection is required. Examples of applications: laboratories, the pharmaceutical and electronics industries and in healthcare premises. The system is classified B1, B5 and B10 for zone 4 according to standard NF S 90-351 and clean room classified according ISO 5.

The system consists of Ecophon Hygiene LabotecAir A tiles, which have a core of high density glass wool utilizing the 3RD Technology and a painted particle-repellent Akutex™ HP surface. The back of the tile is covered with a airtight glass tissue. The edges are painted. The supporting structure is an exposed Connect T24 grid of galvanised steel. The weight of the system is 3-4 kg/m². The tiles should be secured to the grid with Connect Hygiene clips in order to withstand air pressure.



Hygiene LabotecAir A tile



Hygiene LabotecAir A C1 section with Connect Hygiene clip 20



Hygiene LabotecAir A C1 system

SYSTEM RANGE

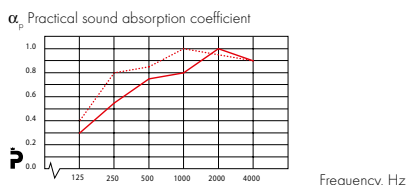
Size, mm	600	600	1200	1200
	x	x	x	x
	600	600	600	600
T24	•	•	•	•
Thickness	20	40	20	40
Inst. Diagr.	M337	M337	M337	M337

TECHNICAL PROPERTIES

ACOUSTIC

Sound Absorption: Test results according to EN ISO 354.

Classification according to EN ISO 11654.



— Ecophon Hygiene LabotecAir A, 20 mm, 200 mm o.d.s.
 - - - Ecophon Hygiene LabotecAir A, 40 mm, 200 mm o.d.s.
 o.d.s.= overall depth of system

Product	Hygiene LabotecAir A, 20 mm	Hygiene LabotecAir A, 40 mm
o.d.s mm	200	200
absorption class	B	A
alpha_w	0,8	0,95

Sound Insulation: Not applicable.

Sound Privacy: Not applicable



CLEANABILITY Daily dusting and vacuum cleaning. Weekly wet wiping. Can withstand the use of common disinfecting chemicals. Withstand the use of hydrogen peroxide vapour.



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



INDOOR CLIMATE Certified by the Indoor Climate Labelling, emission class M1 for building materials, recommended by the Swedish Asthma and Allergy Association, and can be used in rooms classified as ISO class 5 according to ISO 14644-1.



INFLUENCE OF CLIMATE The tiles withstand a permanent ambient RH up to 95% at 30°C without sagging, warping or delaminating (ISO 4611). A higher temperature/moisture is permissible during washing as stated above. Microbiological growth class 0 according to ASTM G 21-96. Fulfills the requirements B1, B5 and B10 of zone 4 according to NF S90-351. The grid and accessories meet the demands of corrosion class C1 according to EN ISO 12944-2.



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



AIR PERMEABILITY The systems are designed to limit the air leakage at pressure differentials. The declared values are valid for pressure differentials up to 50 Pa at both over- and under pressure, i.e. for air flow from the room to the ceiling void and reverse, and when mounted according to installation diagram M337
 Hygiene LabotecAir A: 20 mm: 1,2 m³/(h x m² x Pa)
 Hygiene LabotecAir A: 40 mm: 0,7 m³/(h x m² x Pa)



FIRE SAFETY The glass wool core of the tiles is tested and classified as non-combustible according to EN ISO 1182. The systems are classified as fire protective covering according to NT FIRE 003.

Reaction-to-fire classification

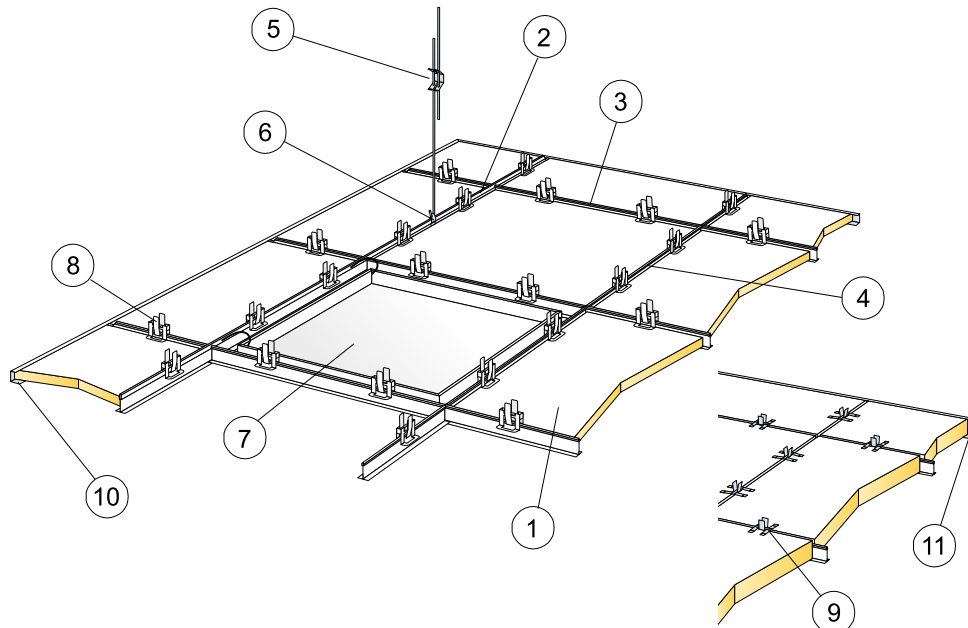
Country	Standard	Class
Europe	EN 13501-1	A2-s1,d0



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



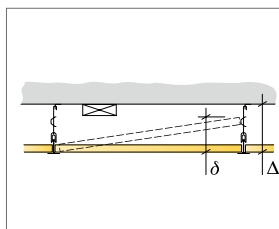
INSTALLATION Installed according to installation diagrams, installation guides and drawing aid. Cut panels must be sealed with Connect Edge sealant.



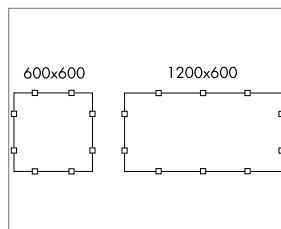
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QUANTITY SPECIFICATION (EXCL. WASTAGE)

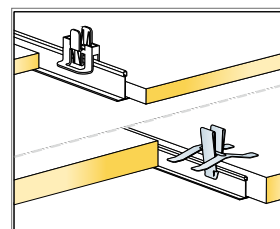
		Size, mm	
		600x600	1200x600
1	Hygiene LabotecAir A	2,8/m ²	1,4/m ²
2	Connect T24 Main runner, installed at 1200 mm centres (max distance from wall 300 mm)	0,9m/m ²	0,9m/m ²
3	Connect T24 Cross tee, L=1200 mm, installed at 600 mm centres	1,7m/m ²	1,7m/m ²
4	Connect T24 Cross tee, L=600 mm	0,9m/m ²	-
5	Connect Adjustable hanger, installed at 1200 mm centres (max. distance from wall 600 mm)	0,7/m ²	0,7/m ²
6	Connect Hanger clip	0,7/m ²	0,7/m ²
7	Connect Inspection hatch C1	as required	as required
8	Connect Hygiene clip 20	11/m ²	7/m ²
9	Connect Hygiene clip 40	11/m ²	7/m ²
10	Connect Channel trim, fixed c300 (for 20 mm thickness)	as required	as required
11	Connect Channel trim, fixed c300 (for 40 mm thickness)	as required	as required
Δ Min. overall depth of system: 150 mm			
δ Min. demounting depth 20 mm: 150 mm			
δ Min. demounting depth 40 mm: 170 mm			



See Quantity specification



Arrangement of clips

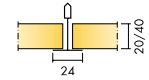


Clip for keeping tiles in place for 20/40 mm tiles

Size, mm	Max live load [N]	Min load bearing capacity [N]
600x600	50	160
1200x600	50	160

Live load/load bearing capacity

Ecophon Hygiene Advance™ A C3



Ecophon Hygiene Advance A C3 system is a wall to wall, sound-absorbing ceiling system intended for use in environments where there is a high level of contamination, and where frequent cleaning is required. The system is also an excellent choice for clean environments with high demands on low particle emissions. Examples of applications: in healthcare premises like operation theatres and laboratories with very high requirements on particle emission and disinfection, in food and beverage industries in areas exposed to splatter from different kinds of liquids that require daily cleaning. In kitchens in dishwashing areas with constantly high humidity. The system is classified B1 and B5 for zone 4 according to standard NF S 90-351 and clean room classified according ISO 3.

The system consists of Ecophon Hygiene Advance A tiles, which have a core of high density glass wool encapsulated in a smooth high-performance film that is impervious to particles and water. The film is also dirt-repellent and resistant to most chemicals. The supporting structure is a corrosion protected exposed Connect T24 C3 grid of lacquered galvanised steel. The weight of the system is approximately 3 kg/m² (20 mm) and 4,5 kg/m² (40 mm). The Ecophon Hygiene Advance A C3 is a technical ceiling system which might have aesthetic variations that will not affect the functionality of the system.



Hygiene Advance A tile



Hygiene Advance A C3 system



Hygiene Advance A C3 section with Connect Hygiene clip 40



Hygiene Advance A C3 section with Connect Hygiene clip 20

SYSTEM RANGE

Size, mm	600		1200	
	x	x	x	x
	600	600	600	600
T24	•	•	•	•
Thickness	20	40	20	40
Inst. Diagr.	M252	M252	M252	M252

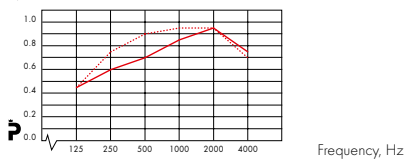
TECHNICAL PROPERTIES

ACOUSTIC

Sound Absorption: Test results according to EN ISO 354.

Classification according to EN ISO 11654.

α_p Practical sound absorption coefficient



— Ecophon Hygiene Advance A, 20mm, 200 mm o.d.s.
 Ecophon Hygiene Advance A, 40mm, 200 mm o.d.s.
 o.d.s.= overall depth of system

Product	Hygiene Advance A, 20 mm		Hygiene Advance A, 40 mm	
	200	400	200	400
o.d.s mm	200	400	200	400
absorption class	B		A	
α_w	0,80	0,80	0,90	0,90
NRC	0,80	0,80	0,75	0,75
SAA	0,76	0,79	0,76	0,76

Sound Insulation: Not applicable.

Sound Privacy: Not applicable

ACCESSIBILITY The tiles are demountable. Minimum demounting depth according to installation diagram. The tiles are secured using Hygiene Clip 20 to allow for effective in-situ cleaning. The clips are easily removable from above the ceiling. A tightly sealed, easy-to-open Hygiene Inspection hatch is available to simplify access to the ceiling void.

CLEANABILITY Daily dusting, vacuum cleaning, manual wet cleaning, high-pressure washing and steam cleaning. Water temperature max. 70°C. Can withstand the use of common disinfecting chemicals. Withstand the use of hydrogen peroxide vapour.

VISUAL APPEARANCE White 141, nearest NCS colour sample S 1000-N, 73% light reflectance. Please note: There is a small difference in gloss and appearance between the Hygiene Advance tile and the Hygiene Advance technical tile.

INFLUENCE OF CLIMATE The tiles withstand a permanent ambient RH up to 95% at 30°C without sagging, warping or delaminating (ISO 4611). A higher temperature/moisture is permissible during washing as stated above. Microbiological growth class 0 according to ASTM G 21-96. Fulfills the requirements B1 and B5 of zone 4 according to NF S90-351. The grid and accessories meet the demands of corrosion class C3 according to EN ISO 12944-2.

INDOOR CLIMATE Can be used in rooms classified as ISO class 3 according to ISO 14644-1.

ENVIRONMENTAL INFLUENCE Partly recyclable.

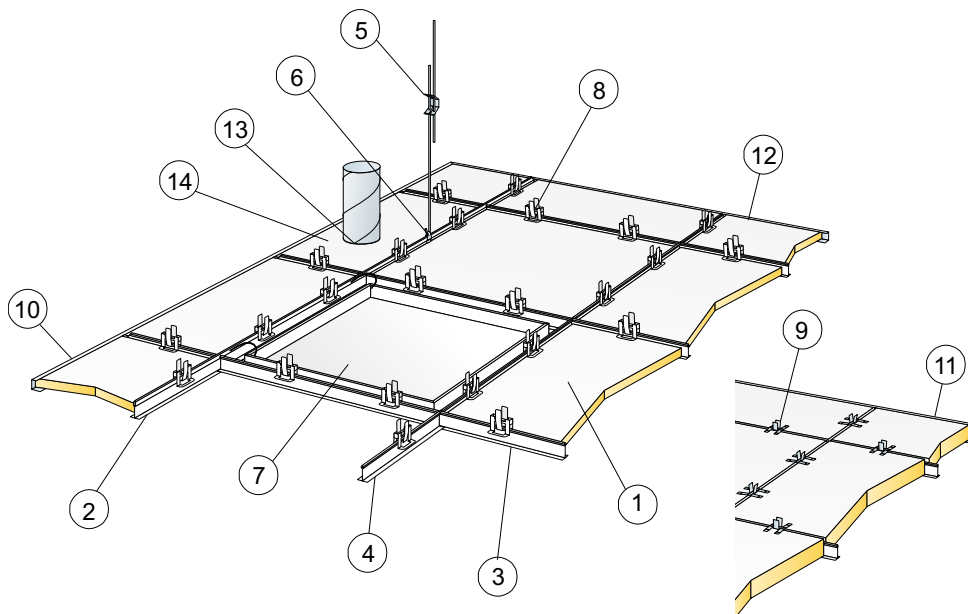
FIRE SAFETY The glass wool core of the tiles is tested and classified as non-combustible according to EN ISO 1182.

Reaction-to-fire classification

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

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

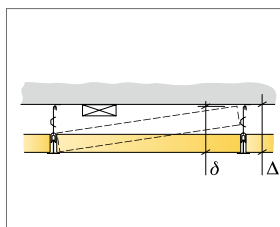
INSTALLATION Installed according to installation diagrams, installation guides and drawing aid. Cut tiles must be sealed with Connect Hygiene Advance Tape. Penetrations must be sealed with a suitable sealant.



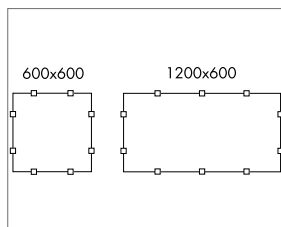
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QUANTITY SPECIFICATION (EXCL. WASTAGE)

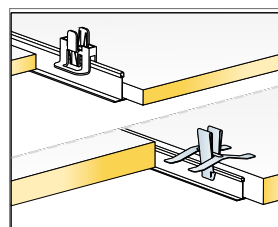
	Size, mm	
	600x600	1200x600
1 Hygiene Advance A	2,8/m ²	1,4/m ²
2 Connect T24 Main runner C3, installed at 1200 mm centres	0,9m/m ²	0,9m/m ²
3 Connect T24 Cross tee C3, L=1200 mm, installed at 600 mm centres	1,7m/m ²	1,7m/m ²
4 Connect T24 Cross tee C3, L=600 mm	0,9m/m ²	-
5 Connect Adjustable hanger C3, c1200 (max distance from wall 600 mm)	0,7/m ²	0,7/m ²
6 Connect Hanger clip	0,7/m ²	0,7/m ²
7 Connect Inspection hatch C3	as required	as required
8 Connect Hygiene clip 20	11/m ²	7/m ²
9 Connect Hygiene clip 40	11/m ²	7/m ²
10 Connect Channel trim C3, fixed c300 (for 20 mm thickness)	as required	as required
11 Connect Channel trim C3, fixed c300 (for 40 mm thickness)	as required	as required
12 Connect Hygiene Advance Tape	as required	as required
13 Joint sealant (not supplied by Ecophon)	as required	as required
14 Ecophon Hygiene Advance technical tile (thickness 20 mm)	as required	as required
Δ Min. overall depth of system: 150 mm		
δ Min. demounting depth 20 mm: 150 mm		
δ Min. demounting depth 40 mm: 170 mm		



See Quantity specification



Arrangement of clips



Clips for keeping tiles in place

Size, mm	Max live load [N]	Min load bearing capacity [N]
600x600	40	160
1200x600	40	160

Live load/load bearing capacity

Ecophon Hygiene Advance™ Wall C3



Ecophon Hygiene Advance Wall C3 is a sound-absorbing wall panel system intended for use in environment where there is a high level of contamination, and where frequent cleaning is required. It is intended for use on walls above the occupied area or where there is no risk for mechanical impact. Examples of applications: in healthcare premises like operation theatres and laboratories with very high requirements on particle emission and disinfection, in food and beverage industries in areas exposed to splatter from different kinds of liquids that require daily cleaning. In kitchens in dishwashing areas with constantly high humidity. The system is classified B1 and B5 for zone 4 according to standard NF S 90-351 and clean room classified according ISO 4.

The system consists of Ecophon Hygiene Advance Wall panel, which has a core of high density glass wool encapsulated in a smooth high-performance film that is impervious to particles and water. The film is also dirt-repellent and resistant to most chemicals. The fixing details Connect Wall fixing C3 are made of stainless steel wire. The panel is positioned with an airgap of 40 mm to the surface behind allowing for air to circulate and for cleaning. The weight of the system is approximately 3 kg/pcs. The Ecophon Hygiene Advance Wall C3 is a technical system which might have aesthetic variations that will not affect the functionality of the system.



Hygiene Advance Wall



Hygiene Advance Wall C3 system



Connect Wall fixing C3



Connect Wall fixing C3

SYSTEM RANGE

Size, mm	1200 x 600
Special Fixing	•
Thickness	40
Inst. Diagr.	M258

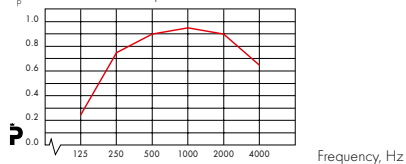
TECHNICAL PROPERTIES

ACOUSTIC

Sound Absorption: Test results according to EN ISO 354.

Classification according to EN ISO 11654.

α_p Practical sound absorption coefficient



— Ecophon Hygiene Advance Wall C3, 80 mm o.d.s.
o.d.s= overall depth of system

Product	Hygiene Advance Wall
o.d.s mm	80
absorption class	B
α_w	0,85

Sound Insulation: Not applicable.

Sound Privacy: Not applicable

ACCESSIBILITY The tiles are demountable.

CLEANABILITY Daily dusting, vacuum cleaning, manual wet cleaning, high-pressure washing and steam cleaning. Water temperature max. 70°C. Can withstand the use of common disinfecting chemicals. Withstand the use of hydrogen peroxide vapour.

VISUAL APPEARANCE White 141, nearest NCS colour sample S 1000-N, 73% light reflectance.

INFLUENCE OF CLIMATE The tiles withstand a permanent ambient RH up to 95% at 30°C without sagging, warping or delaminating (ISO 4611). A higher temperature/moisture is permissible during washing as stated above. Microbiological growth class 0 according to ASTM G 21-96. Fulfills the requirements B1 and B5 of zone 4 according to NF S90-351. The grid and accessories meet the demands of corrosion class C3 according to EN ISO 12944-2.

INDOOR CLIMATE Can be used in rooms classified as ISO class 4 according to ISO 14644-1.

ENVIRONMENTAL INFLUENCE Partly recyclable.

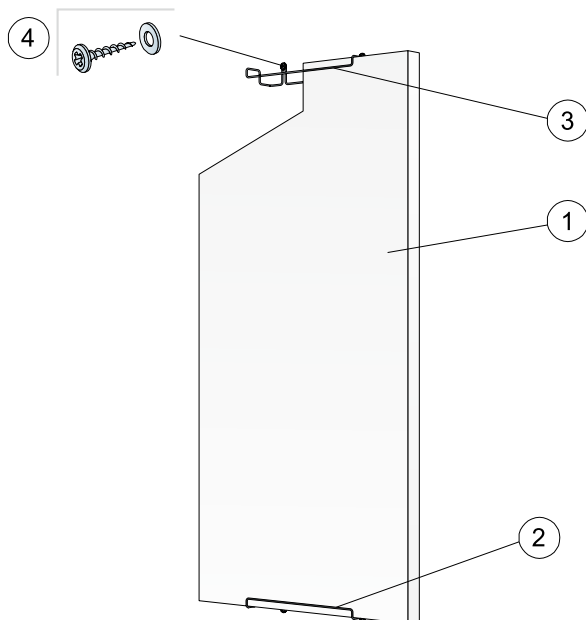
FIRE SAFETY The glass wool core of the tiles is tested and classified as non-combustible according to EN ISO 1182.

Reaction-to-fire classification

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

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

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

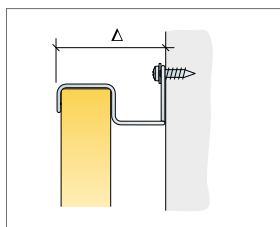


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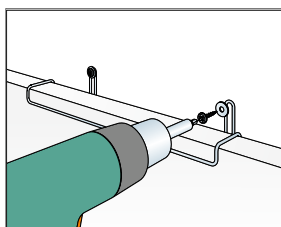
QUANTITY SPECIFICATION (EXCL. WASTAGE)

		Size, mm
		1200x600
1	Hygiene Advance Wall	1,4/m ²
2	Connect Wall fixing C3, vertical installation	2/panel
3	Connect Wall fixing C3, horizontal installation	4/panel
4	Wall screw, A2 material (not supplied by Ecophon)	2/wall fixing

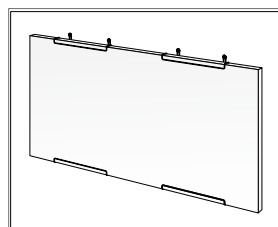
Δ Min. overall depth of system: 90 mm



See Quantity specification



Installation with wall screw in stainless steel (A2) material



Horizontal installation of Advance Wall C3

Size, mm	Max live load [N]	Min load bearing capacity [N]
1200x600	0	-

Live load/load bearing capacity

Notes:

A series of horizontal dotted lines for writing notes.



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.

www.ecophon.co.uk



Saint-Gobain Ecophon, Old Brick Kiln, Ramsdell, Tadley RG26 5PP,
Tel + 44 (0) 1256 850977, Fax: +44 (0) 1256 851550,
E-mail: marketing@ecophon.co.uk, www.ecophon.co.uk