

Hygiene products for healthcare



Ecophon[®]
SAINT-GOBAIN

A SOUND EFFECT ON PEOPLE



Ensuring the required level of purity and cleanliness

In hospitals and other healthcare facilities, a good sound environment is crucial for rest and recovery. A common characteristic of these environments is that they all have specific hygiene demands. This could, for instance, be disinfection or water-resistance. Or maybe some surfaces need to withstand high-pressure washing.

The Ecophon Hygiene™ range offers acoustic sound-absorbing solutions that meet all these hygiene demands and more, making sure everyone can experience all the benefits of a work and recovery space with a good sound environment that increases wellbeing and aids performance.

Ecophon's Class A sound absorbers provide the highest class of sound absorption absorbing approximately 90% of the sound that reaches them. This improves localised speech clarity, reduces reverberation and echo and helps lower the levels of background noise. So aiding rest, sleep and communication.

In order to create a healthy sound environment, it is important to use sound absorbers that deliver the desired function. Ecophon Hygiene™ offers absorbers of the highest quality. These absorbers also meet hygiene demands in tough environments.

Ecophon - a sound effect on people



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For the latest news on Ecophon, our solutions, design inspiration and the world of acoustics, follow us on: LinkedIn ([linkedin.com/company/saint-gobain-ecophon-uk-and-ireland](https://www.linkedin.com/company/saint-gobain-ecophon-uk-and-ireland)) Youtube ([youtube.com/EcophonTV](https://www.youtube.com/EcophonTV)) and Twitter (@EcophonUK).



Hygiene range guide

Find the right product for your needs

Ecophon Hygiene™ covers a comprehensive range of products, suitable for environments with different needs

Use the table on the next page to find the product group that meets your requirements.

Shared properties – Ecophon Hygiene™



Clean room

Zone 4 (NFS 90-351)

Clean room classification ISO 4 (ISO 14644-1) or better

Kinetic class for particle elimination, $CP_{(0,5)}5$ (NFS 90-351) or better

Bacteriological class M1 (NFS 90-351)



Circularity

Fully recyclable



Fire safety

Classification (EN 13501-1), Class: A2-s1,d0

Differentiating properties – Ecophon Hygiene™

		Clinic	Meditec	Protec	Performance	Advance
Range	Installation methods					
Cleanability	Dusting & vacuum cleaning	●	●	●	●	●
	Wet wiping	●	●	●	●	●
Advanced cleanability	Steam cleaning	-	-	-	●	●
	Wet cleaning	-	-	-	●	●
	High pressure washing	-	-	-	●	●
	Hydrogen peroxide vapour	●	●	●	●	●
Surface endurance	Withstand 200 cycles (ISO 11998)	-	●	●	●	●
	Withstand cycles beyond ISO 11988	-	-	-	-	●
Chemical resistance	Resistant to disinfection chemicals (ISO 11998)	-	●	●	●	●
	Resistant to strong chemicals (ISO 2812-1)	-	-	-	-	●
Air permeability	Ceiling for areas with air pressure control requirement	-	-	●	-	●
Humidity resistance	Dry area system, compatible with corrosion class C1 areas	●	●	●	-	-
	High humidity area system, compatible with corrosion class C3 areas	-	-	-	●	●
	Swimming pool area system, compatible with corrosion class C4 areas	-	-	-	●	●
	Constant wet area system, compatible with corrosion class C4 areas	-	-	-	-	●
Mould and bacteria resistance	Mould, method A (ISO 846)	Class 0	Class 0	Class 0	Class 0	Class 1
	Bacteria, method C (ISO 846)	Class 0	Class 0	Class 0	Class 0	Class 0
Clean room (Advanced)	Clean room classification ISO 3 (ISO 14644-1)	-	-	●	-	●
	Kinetic class for particle elimination, CP _(0.5) ¹ (NFS 90-351)	-	-	●	-	●
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- Properties important for controlled atmosphere areas
- Property stating that systems are 100% recyclable
- Property stating fire safety class
- Stating surface cleanability
- Stating advanced cleanability
- Surface endurance of scrub cycles with disinfectants

- Property stating which chemical substances can be used
- Property stating the permeability of the ceiling in areas that require air pressure control
- Property stating whether the system is suitable for dry (corrosion class C1), humid (corrosion class C3) and/or wet areas (corrosion class C4). Swimming pool area is displayed separately due to the highly corrosive effects of chloride use
- Property stating that mould and bacteria do not grow on the product





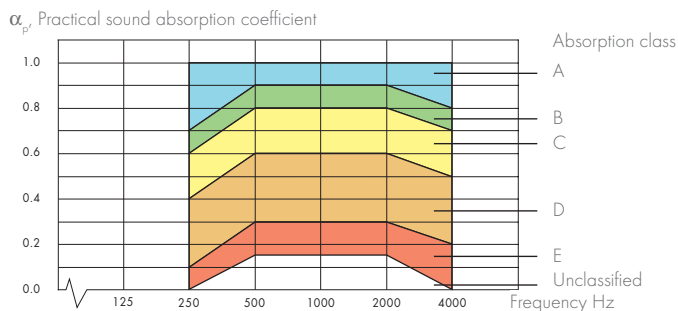
Room acoustics - Sound Absorption

Absorption Class

Sound absorption qualities are measured at different frequencies, according to EN ISO 354. Each resulting value is defined as a practical sound absorption coefficient, α_p . These values are then weighted to create one α_w value. The α_w value is between 0 and 1, where 1 is the best.

To make it easier to communicate sound absorption qualities, the α_w is used for classifying sound absorbers in classes A–E, according to EN ISO 11654. A is the highest classification.

Absorption classes A–E, according to EN ISO 11654. All Ecophon Hygiene ceilings are sound absorption Class A





Environmental footprint



In order to get a transparent and scientific view of a product's environmental impact, Ecophon performs a Life Cycle Assessment (LCA) for all products. The assessment takes every step of the product's life into account, from the harvesting of raw materials to production and end of life.

Life Cycle Assessments of Ecophon products are conducted in line with

ISO 14040 and give a fully transparent overview of our environmental impact. The results are presented in standardised documents called Environmental Product Declarations (EPD).

An EPD is a type III environmental declaration. This means it is always revised and certified by a third party. Ecophon EPDs are done in compliance with ISO 14025 and EN 15804. The third-party verification is performed by the Swedish environmental institute IVL.

Activity Based Acoustic Design

Easy method for reaching the optimal solution

In order to design spaces where people can perform a given activity to the best of their ability and feel comfortable while doing it, Ecophon has developed Activity Based Acoustic Design. In practice, this is a method that defines spaces from three perspectives – activity, people and space – and finds the common ground where all these perspectives benefit. The optimal acoustic products are then identified to meet the acoustic and hygiene needs in the space.

On the following pages you will find product recommendations for some areas where both acoustics and hygiene are important. The hygiene demands presented are not complete, and should be seen as guidelines. For all product properties, please see the respective product pages.

1 Activity

What will people be doing in the space? What are all the activities that will be performed? Will it be noisy? Will equipment and machines be used? Is confidentiality an issue? How much time will be spent communicating?

2 People

Who is involved in the activity? How many people are there? Are they old or young? Do they have special needs?

3 Space

Is the space large or small? Where is it situated, what spaces are next to it and what activities are performed there? Does the building have bare concrete walls, ceilings and floors? Are there fans, alarms or other sources of frequent noise in the space? Are there hygiene requirements to consider?



Entrances

The ideal entrance to a healthcare facility is inviting, comfortable and stress-free. Patients and staff should be able to move around easily, hold conversations, ask questions, wait for assistance and find their way.

Product recommendation

Mould and bacteria resistant		Ecophon Hygiene Clinic™ A	14
Mould and bacteria resistant		Ecophon Hygiene Clinic™ E	14
Mould and bacteria resistant, resist disinfection chemicals		Ecophon Hygiene Meditec™ A	16
Mould and bacteria resistant, resist disinfection chemicals		Ecophon Hygiene Meditec™ E	16
Mould and bacteria resistant, resist disinfection chemicals, easy to clean		Ecophon Hygiene Performance™ A	20

If your room specifications do not include specific hygiene properties, visit www.ecophon.com/uk/productguide

Café

A canteen or café is a place where people must be able to relax and enjoy their food and the company of others. Speaking and listening comfort must be high so that everyone, including people with hearing impairments, can participate in the conversation.

Product recommendation

Mould and bacteria resistant		Ecophon Hygiene Clinic™ A	14
Mould and bacteria resistant		Ecophon Hygiene Clinic™ E	14
Mould and bacteria resistant, resist disinfection chemicals		Ecophon Hygiene Meditec™ A	16
Mould and bacteria resistant, resist disinfection chemicals		Ecophon Hygiene Meditec™ E	16
Mould and bacteria resistant, resist disinfection chemicals, easy to clean		Ecophon Hygiene Performance™ A	20

If your room specifications do not include specific hygiene properties, visit www.ecophon.com/uk/productguide

Food preparation and storage

Food needs to be safely stored and prepared. The areas in workplaces where these activities are performed have a high level of noise, which can affect employees negatively, causing fatigue, stress and communication problems.

Product recommendation

Easy to clean, high pressure washing 2/year		Ecophon Hygiene Performance™ Plus A	20
Easy to clean, high pressure washing 2/year		Ecophon Hygiene Performance™ Wall	20



Photographier: Hans Georg Esch



Photographier: Hans Georg Esch









Photographier: Hans Georg Esch

Corridors

Corridors are busy areas and with much of the communication between staff taking place there, sound will spread along their length and into adjoining rooms.

Product recommendation







Mould and bacteria resistant		Ecophon Hygiene Clinic™ A	14
Mould and bacteria resistant		Ecophon Hygiene Clinic™ E	14
Mould and bacteria resistant, resist disinfection chemicals		Ecophon Hygiene Meditec™ A	16
Mould and bacteria resistant, resist disinfection chemicals		Ecophon Hygiene Meditec™ E	16
Mould and bacteria resistant, resist disinfection chemicals, easy to clean		Ecophon Hygiene Performance™ A	20
Mould and bacteria resistant, resist disinfection chemicals, easy to clean		Ecophon Hygiene Performance™ Care Wall	20

If your room specifications do not include specific hygiene properties, visit www.ecophon.com/uk/productguide

Nurses stations

Open plan nurse stations provide a specific working space for staff when they are not with patients. They are often the first point of call for visitors at a ward and the place where staff assemble for meetings and handovers. A calm space with easy communication is vital for staff comfort.

Product recommendation






Mould and bacteria resistant		Ecophon Hygiene Clinic™ A	14
Mould and bacteria resistant		Ecophon Hygiene Clinic™ E	14
Mould and bacteria resistant, resist disinfection chemicals		Ecophon Hygiene Meditec™ A	16
Mould and bacteria resistant, resist disinfection chemicals		Ecophon Hygiene Meditec™ E	16
Mould and bacteria resistant, resist disinfection chemicals, easy to clean		Ecophon Hygiene Performance™ A	20
Mould and bacteria resistant, resist disinfection chemicals, easy to clean		Ecophon Hygiene Performance™ Care Wall	20

If your room specifications do not include specific hygiene properties, visit www.ecophon.com/uk/productguide

Waiting areas

Waiting areas are regularly located in a corridor or an open space. Many waiting rooms have a counter where people can speak to the nurse or administrative staff. Patients and staff should easily be able to have private conversations without the risk of being overheard.

Product recommendation

Mould and bacteria resistant		Ecophon Hygiene Clinic™ A	14
Mould and bacteria resistant		Ecophon Hygiene Clinic™ E	14
Mould and bacteria resistant, resist disinfection chemicals		Ecophon Hygiene Meditec™ A	16
Mould and bacteria resistant, resist disinfection chemicals		Ecophon Hygiene Meditec™ E	16
Mould and bacteria resistant, resist disinfection chemicals, easy to clean		Ecophon Hygiene Performance™ A	20
Mould and bacteria resistant, resist disinfection chemicals, easy to clean		Ecophon Hygiene Performance™ Care Wall	20

If your room specifications do not include specific hygiene properties, visit www.ecophon.com/uk/productguide



Patient and treatment rooms

Recovering requires peace and quiet. Rest and sleep are important aspects of our health and everyday life, but never as important as when we are ill or have undergone surgery and need to heal. For this reason, treatment and patient rooms should be designed to promote good quality of sleep, comfort and privacy.









Product recommendation

Mould and bacteria resistant, resist disinfection chemicals		Ecophon Hygiene Meditec™ A	16
Mould and bacteria resistant, resist disinfection chemicals		Ecophon Hygiene Meditec™ E	16
Mould and bacteria resistant, resist disinfection chemicals, easy to clean		Ecophon Hygiene Performance™ Care Wall	20

Specialist areas

There are some areas in a hospital that must meet higher acoustic standards, such as operating suites and sterilising rooms and intensive care facilities.











Product recommendation

Wet cleaning, steam cleaning, easy to clean, resist disinfection chemicals		Ecophon Hygiene Performance™ Plus A	20
Wet cleaning, steam cleaning, easy to clean, resist disinfection chemicals		Ecophon Hygiene Performance™ Wall	20
Wet cleaning, steam cleaning, easy to clean, resist disinfection chemicals, air pressure control		Ecophon Hygiene Advance™ A	56
Wet cleaning, steam cleaning, easy to clean, resist disinfection chemicals		Ecophon Hygiene Advance™ Wall	56
Easy to clean, resist disinfection chemicals		Ecophon Hygiene Performance™ Care Wall	20
Particle repellence, resist disinfection chemicals		Ecophon Hygiene Protec™ A	38
Particle repellence, resist disinfection chemicals, concealed grid		Ecophon Hygiene Protec™ Ds	38
Particle repellence, resist disinfection chemicals, air pressure control		Ecophon Hygiene Protec™ Air A	38

Laboratories

Laboratories are complex spaces where staff members work together analysing samples or data. Cleanliness, air pressure and air particles often need to be controlled to avoid risk of contamination whilst other areas may have a lesser requirement for cleaning.










Product recommendation

Particle repellence, resist disinfection chemicals		Ecophon Hygiene Protec™ A	18
Particle repellence, resist disinfection chemicals, concealed grid		Ecophon Hygiene Protec™ Ds	18
Particle repellence, resist disinfection chemicals, air pressure control		Ecophon Hygiene Protec™ Air A	18
Steam cleaning, easy to clean, resist disinfection chemicals		Ecophon Hygiene Performance™ Plus A	20
Steam cleaning, easy to clean, wet cleaning, resist disinfection chemicals		Ecophon Hygiene Performance™ Wall	20
Easy to clean, resist disinfection chemicals		Ecophon Hygiene Performance™ Care Wall	20
Steam cleaning, easy to clean, resist disinfection chemicals, air pressure control		Ecophon Hygiene Advance™ A	22
Steam cleaning, easy to clean, resist disinfection chemicals		Ecophon Hygiene Advance™ Wall	22
Mould and bacteria resistant, resist disinfection chemicals		Ecophon Hygiene Meditec™ A	16
Mould and bacteria resistant, resist disinfection chemicals		Ecophon Hygiene Meditec™ E	16

Ecophon Hygiene Clinic™

Dry areas – dry and wet wiping

Differentiating properties – Ecophon Hygiene Clinic™

		A	E
Range	Installation methods		
	Size, thickness (mm)	600x600x15 1200x600x15	600x600x15 1200x600x15
	Visual experience	Visual grid	Recessed grid
	Edge treatment	Primed	Painted
	Weight of system (approx.)	2.5 kg/m ²	2.5 kg/m ²
	Back treatment of the tile	Glass tissue	Glass tissue
 Acoustic	Sound absorption (α_w)	0.95	1.00
 Cleanability	Dusting & vacuum cleaning	Daily	Daily
	Wet wiping	Weekly	Weekly
 Advanced cleanability	Hydrogen peroxide vapour	•	•
 Environmental footprint	Kg CO ₂ equiv/m ² (ISO 14025, EN 15804)	2,99	3,12
 Humidity resistance	Dry area system, compatible with corrosion class C1 areas	•	•
 Clean room		Clean room classification ISO 4 (ISO 14644-1) and Zone 4 (NFS 90-351)	
		Bacteriological class M1 (NFS 90-351)	
		Kinetic class for particle elimination CP _(0,5) 5 (NFS 90-351)	
 Mould and bacteria resistance		Mould, Class 0, method A (ISO 846)	
		Bacteria, Class 0, method C (ISO 846)	







Photographe: Remi Vanwa

Ecophon Hygiene Clinic™ are standard class A sound-absorbing ceilings for dry areas.

The absorbers have low emission levels, thus ensuring high indoor air quality. They are resistant to mould and bacteria growth and withstand HPV cleaning.

Shared properties – Ecophon Hygiene™ Clinic

 Accessibility	Minimum demounting depth according to installation diagrams	Demountable
 Visual appearance	 Surface: Akutex™ T	White 500, nearest NCS colour sample S 0500-N, Light reflectance: 84%
 Fire safety	Classification (EN 13501-1)	Class: A2-s1,d0














For the latest information go to www.ecophon.com/uk or contact your nearest Ecophon representative.

Ecophon Hygiene Meditec™

Dry areas – disinfection on a regular basis

Differentiating properties – Ecophon Hygiene Meditec™





		A	E
Range	Installation methods		
	Size, thickness (mm)	600x600x15 1200x600x15	600x600x15 1200x600x15
	Visual experience	Visual grid	Recessed grid
	Edge treatment	Primed	Painted
	Weight of system (approx.)	2.5 kg/m ²	2.5 kg/m ²
	Back treatment of the tile	Glass tissue	Glass tissue
 Acoustic	Sound absorption (α_w)	0.95	1.00
 Cleanability	Dusting & vacuum cleaning	Daily	Daily
	Wet wiping	Weekly	Weekly
 Advanced cleanability	Hydrogen peroxide vapour	•	•
 Surface endurance	Withstand 200 cycles (ISO 11998)	•	•
 Chemical resistance	Resistant to disinfection chemicals (ISO 11998)	2/year	2/year
 Environmental footprint	Kg CO ₂ equiv/m ² (ISO 14025, EN 15804)	3,98	4,01
 Humidity resistance	Dry area system, compatible with corrosion class C1 areas	•	•
 Clean room		Clean room classification ISO 4 (ISO 14644-1) and Zone 4 (NFS 90-351)	
		Bacteriological class M1 (NFS 90-351)	
		Kinetic class for particle elimination CP _(0,5) 5 (NFS 90-351)	
 Mould and bacteria resistance		Mould, Class 0, method A (ISO 846)	
		Bacteria, Class 0, method C (ISO 846)	



Ecophon Hygiene Meditec™ are class A sound-absorbing ceilings for dry areas where disinfection and/or cleaning is required on a regular basis.

The surface is resistant to common detergents and disinfectants. The absorbers have low emission levels, thus ensuring high indoor air quality. They are resistant to mould and bacteria growth and withstand HPV cleaning.

Shared properties – Ecophon Hygiene™ Meditec

 Accessibility	Minimum demounting depth according to installation diagrams	Demountable
 Visual appearance	 Surface: Akutex™ TH	White 500, nearest NCS colour sample S 0500-N, Light reflectance: 84%
 Fire safety	Classification (EN 13501-1)	Class: A2-s1,d0



Ecophon Hygiene Protec™

Clean rooms – disinfection on a regular basis

Differentiating properties – Ecophon Hygiene Protec™





		A	Ds	Air A
Range	Installation methods	≡	≡	≡
	Size, thickness (mm)	600x600x20 1200x600x20	600x600x20 1200x600x20	600x600x20 1200x600x20 600x600x40 1200x600x40
	Visual experience	Visual grid	Concealed grid	Visual grid
	Edge treatment	Painted	Painted	Painted
	Weight of system (approx.)	3-4 kg/m ²	3-4 kg/m ²	3.5 kg/m ² , 20 mm 4.5 kg/m ² , 40 mm
	Back treatment of the tile	Hygiene surface	Hygiene surface	Air pressure control surface
Acoustic	Sound absorption (α_w)	0.9	0.85	0.80, 20 mm 0.90, 40 mm
Cleanability	Dusting & vacuum cleaning	Daily	Daily	Daily
	Wet wiping	Weekly	Weekly	Weekly
Advanced cleanability	Hydrogen peroxide vapour	●	●	●
Surface endurance	Withstand 200 cycles (ISO 11998)	●	●	●
	Back of tile withstand 200 cycles (ISO 11998)	●	●	-
Chemical resistance	Resistant to disinfection chemicals (ISO 11998)	2/year	2/year	2/year
Air permeability	Air leakage rate m ³ /(h x m ² x Pa). Valid for pressure differentials up to 50 Pa	-	-	0.3, 20 mm 0.2, 40 mm
Environmental footprint	Kg CO ₂ equiv./m ² (ISO 14025, EN 15804)	4,47	4,56	3,91
Humidity resistance	Dry area system, compatible with corrosion class C1 areas	●	●	●
Clean room (Advanced)	Clean room classification ISO 3 (ISO 14644-1) and Zone 4 (NFS 90-351)			
	Bacteriological class M1 (NFS 90-351)			
	Kinetic class for particle elimination CP _(0,5) 1 (NFS 90-351)			
Mould and bacteria resistance	Mould, Class 0, method A (ISO 846)			
	Bacteria, Class 0, method C (ISO 846)			



Ecophon Hygiene Protec™ are particle repellent sound-absorbing ceilings for clean rooms where disinfection and/or cleaning is required on a regular basis.

The ceilings are classified ISO 3 according to ISO 14644-1. The surface is resistant to common detergents and disinfectants. The absorbers have low emission levels, thus ensuring high indoor air quality. They are resistant to mould and bacteria growth and withstand HPV cleaning. Ecophon Hygiene Protec™ Air A is specifically designed for areas where air pressure control is required.

Shared properties – Ecophon Hygiene™ Protec
















 Accessibility	Minimum demounting depth according to installation diagrams	Demountable
 Visual appearance	 Surface: Akutex™ HP	White 500, nearest NCS colour sample S 0500-N, Light reflectance: 84%
 Fire safety	Classification (EN 13501-1)	Class: A2-s1,d0



Ecophon Hygiene Performance™

Humid areas – advanced cleaning

Differentiating properties – Ecophon Hygiene Performance™

		A	Ds	Plus A	Baffle	Wall	Care Wall
Range	Installation methods						
	Size, thickness (mm)	600x600x20 1200x600x20 600x600x40 1200x600x40	600x600x20 1200x600x20	600x600x20 1200x600x20 600x600x40 1200x600x40	1200x600x50	1200x600x40	2700x1200x40
	Visual experience	Visual grid	Concealed grid	Visual grid	Semi concealed grid	Visual bracket	Visual frame
	Edge treatment	Primed	Painted	Painted	Painted	Painted	Primed
	Weight of system (approx.)	3-4 kg/m ² , 20 mm 5 kg/m ² , 40 mm	3-4 kg/m ²	3.5 kg/m ² , 20 mm 5 kg/m ² , 40 mm	5 kg/m ²	3 kg/pcs	5 kg/m ²
	Back treatment of the tile	Glass tissue	Glass tissue	Hygiene Surface	Akutex™ HS	Akutex™ HS	Glass Tissue
 Acoustic	Sound absorption (α_w)	0.95, 20 mm 1.00, 40 mm	0.90	0.90, 20 mm 0.95, 40 mm	0.70, rows 0.75, rectangles	1.0	1.0
 Cleanability	Dusting & vacuum cleaning	Daily	Daily	Daily	Daily	Daily	Daily
	Wet wiping	Weekly	Weekly	Weekly	Weekly	Weekly	Weekly
 Advanced cleanability	Steam cleaning	4/year	4/year	4/year	4/year	4/year	4/year
	Wet cleaning	2/year	-	2/year	2/year	2/year	-
	High pressure washing	2/year	-	2/year	2/year	2/year	-
	Hydrogen peroxide vapour	●	●	●	●	●	●
 Surface endurance	Withstand 200 cycles (ISO 11998)	●	●	●	●	●	●
	Back of tile withstand 200 cycles (ISO 11998)	-	-	●	-	-	-
 Chemical resistance	Resistant to disinfection chemicals (ISO 11998)	2/year	2/year	2/year	2/year	2/year	2/year
 Environmental footprint	Kg CO ₂ equiv/m ² (ISO 14025, EN 15804)	2,29	-	3,21	6,73	6,76	-
 Humidity resistance	Dry area system, compatible with corrosion class C1 areas	●	●	●	●	●	●
	High humidity area system, compatible with corrosion class C3 areas	●	●	●	●	●	-
	Swimming pool area system, compatible with corrosion class C4 areas	●	●	-	●	-	-
 Clean room	Clean room classification ISO 4 (ISO 14644-1) and Zone 4 (NFS 90-351)						
	Bacteriological class M1 (NFS 90-351)						
	Kinetic class for particle elimination CP _(0.5) 5 (NFS 90-351)						
 Mould and bacteria resistance	Mould, Class 0, method A (ISO 846)						
	Bacteria, Class 0, method C (ISO 846)						



Ecophon Hygiene Performance™ are easy-to-clean, sound-absorbing ceilings, wall panels and baffles for humid areas.

They stand up to regular cleaning using advanced methods such as steam or high/low pressure washing. Their surface is resistant to common detergents and disinfectants. The absorbers have low emission levels, thus ensuring high indoor air quality. They are resistant to mould and bacteria growth and withstand HPV cleaning.

Shared properties – Ecophon Hygiene™ Performance

 Accessibility

Minimum demounting depth according to installation diagrams

Demountable

 Visual appearance

 Surface: Akutex™ HS

White 500, nearest NCS colour sample S 0500-N, Light reflectance: 84%

 Fire safety

Classification (EN 13501-1)

Class: A2-s1,d0



Ecophon Hygiene Advance™

Wet areas – daily cleaning with strong chemicals

Differentiating properties – Ecophon Hygiene Advance™




		A	Baffle	Wall
Range	Installation methods			
	Size, thickness (mm)	600x600x20 1200x600x20 600x600x40 1200x600x40	1200x600x40	1200x600x40
	Visual experience	Visual grid	Semi concealed grid	Visual bracket
	Edge treatment	Advance	Advance	Advance
	Weight of system (approx.)	3 kg/m ² , 20 mm 4.5 kg/m ² , 40 mm	4 kg/m ²	3 kg/pcs
	Back treatment of the tile	Advance	Advance	Advance
	Acoustic	Sound absorption (α_w)	0.85, 20 mm 0.90, 40 mm	0.60
Cleanability	Dusting & vacuum cleaning	Daily	Daily	Daily
	Wet wiping	Daily	Daily	Daily
Advanced cleanability	Steam cleaning	Daily	Daily	Daily
	Wet cleaning	Daily	Daily	Daily
	High pressure washing	Daily	Daily	Daily
	Hydrogen peroxide vapour	●	●	●
Surface endurance	Withstand 200 cycles (ISO 11998)	●	●	●
	Withstand cycles beyond ISO 11988	●	●	●
Chemical resistance	Resistant to strong chemicals (ISO 2812-1)	Daily	Daily	Daily
Air permeability	Air leakage rate m ³ /(h x m ² x Pa). Valid for pressure differentials up to 50 Pa	1.1, 20 mm 0.3, 40 mm	-	-
Humidity resistance	High humidity area system, compatible with corrosion class C3 areas	●	●	●
	Swimming pool area system, compatible with corrosion class C4 areas	●	-	-
	Constant wet area system, compatible with corrosion class C4 areas	●	-	-
Clean room (Advanced)	Clean room classification ISO 3 (ISO 14644-1) and Zone 4 (NFS 90-351)			
	Bacteriological class M1 (NFS 90-351)			
	Kinetic class for particle elimination CP _(0.5) 1 (NFS 90-351)			
Mould and bacteria resistance	Mould, Class 1, method A (ISO 846)			
	Bacteria, Class 0, method C (ISO 846)			



Ecophon Hygiene Advance™ are sound-absorbing ceilings, wall panels and baffles for the most demanding conditions, including airborne grease and dirt particles.

They stand up to daily advanced cleaning and disinfection with strong chemicals. The absorbers have low emission levels, thus ensuring high indoor air quality, and they withstand HPV cleaning. For areas where air pressure control is required, Ecophon Hygiene Advance™ A is available.

Shared properties – Ecophon Hygiene™ Advance










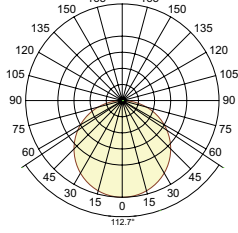
 Accessibility	Minimum demounting depth according to installation diagrams	Demountable
 Visual appearance	Surface: Advance	White 141, Nearest NCS colour sample: NCS S 1000-N. Light reflectance: 73%
 Fire safety	Classification (EN 13501-1)	Class: A2-s1,d0



Ecophon Hygiene Lavanda™ LED

Withstands frequent high pressure hosing

Properties – Ecophon Hygiene Lavanda™ Led

		A
Range	Installation methods 	
	Size (mm)	600x600
	Weight	6.5 kg
 Cleanability	Dusting & vacuum cleaning	Daily
	Wet wiping	Daily
 Advanced cleanability	Wet cleaning	Daily ¹
 Chemical resistance	Resistant to disinfection chemicals	Withstand the use of common disinfecting chemicals.
 Humidity resistance	Dry area system, compatible with corrosion class C1 areas	●
	High humidity area system, compatible with corrosion class C3 areas	●
 Electrical data	230-240V, 50 Hz, power factor $\cos \phi > 0,95$. Electronic HF ballast.	
 Connection	Delivered without any cables. Can be installed for on/off, SwitchDIM or DALI.	
 Electrical approvals	IP65, Class 1. CE	
 Lighting performance		System effect: 49,8 W Light source: LED Luminous flux: 4189 lm Light efficiency: 84 lm/W Colour temperature: 4000K Color rendering index: Ra >80 Colour tolerance: MacAdam 3 SDCM Light output ratio (LOR): 100% Light distribution up/down: 0/100 Expected lifespan: L80 >60000 h

1. Water temperature max. 70°C



A recessed modular luminaire for use in Ecophon Hygiene edge A ceilings.

Hygiene Lavanda LED is equipped with a high frequency ballast, and is flush mounted to the ceiling to avoid pockets that could accumulate dirt and dust. The housing is made of 1.0 mm thick corrosion protected steel sheet in white. The frame is made of anodised extruded aluminium, and is secured to the housing by means of clips. The frame supports a 3 mm thick clear plastic acrylic cover, and is sealed to the grid using a rubber gasket.

Ecophon®

SAINT-GOBAIN

A SOUND EFFECT ON PEOPLE

Ecophon is the leading supplier of acoustic solutions. We contribute to healthier indoor environments, improving quality of life, wellbeing and working performance. As evolution has adapted the human senses to a life outdoors, our focus is to bring the ideal acoustic environments of nature into our modern indoor spaces. We know they will have a sound effect on people.



The principles guiding our work are grounded in our Swedish heritage, where a human approach and a common responsibility for people's lives and future challenges come naturally.

Ecophon is part of the Saint-Gobain Group, a world leader in sustainable habitat solutions. This is also one of the top 100 industrial groups in the world, constantly innovating to make living spaces more comfortable and cost-efficient. Saint-Gobain offer solutions to the major challenges of energy efficiency and environmental protection. No matter what new needs emerge in the habitat and construction markets, the future is made of Saint-Gobain.



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