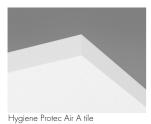
# Ecophon Hygiene Protec™ Air

Ecophon Hygiene Protec<sup>™</sup> Air A has an exposed grid and are particle repellent for clean rooms, where disinfection and/or cleaning is required on a regular basis. Suitable for areas requiring airpressure control. They are resistant to mould and bacteria growth and withstand HPV cleaning.



#### SYSTEM RANGE

	Size, mm	600x600	600x600	1200x600	1200x600
24	T24	•	•	•	•
	Thickness	20	40	20	40
	Inst. Diagr.	M469	M469	M469	M469





Hygiene Protec Air A C1 section with Connect Hygiene Clip 20



Hygiene Protec Air A C1 system

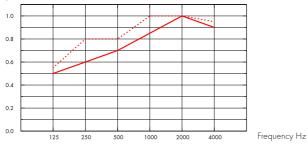
#### Acoustic

-M/m

#### Sound Absorption:

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

 $lpha_{
m p\prime}$  Practical sound absorption coefficient



Hygiene Protec Air A 20 mm, 200 mm o.d.s.
 .... Hygiene Protec Air A 40 mm, 200 mm o.d.s.
 o.d.s = overall depth of system

THK mm	o.d.s. mm	$\alpha_{p}$ , Practical sound absorption coefficient					α"	Sound absorption class	
		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	0. <sub>W</sub>	
20	200	0.50	0.60	0.70	0.85	1.00	0.90	0.80	В
40	200	0.55	0.80	0.80	1.00	1.00	0.95	0.90	A

THK mm	o.d.s. mm	NRC	SAA
20	200	0.80	0.81
40	200	0.90	0.92



#### Indoor Air Quality

Certificate / Label		ÉMESSIONS DANS L'AIR INTÉRIEUR
Eurofins Indoor Air Comfort®	IAC	
French VOC	А	
Finnish M1	•	-

#### **Environmental Footprint**

\$ <b>?</b> *		kg CO2 equiv/m²	Life-cycle stages A1 to C4 from EPD, in conformity with ISO
	Hygiene Protec Air A	4,45	14025 / EN 15804



#### Circularity

Minimum post-consumer recycled content	38%
Recyclability	Fully recyclable

© Saint-Gobain	Ecophon AB



#### **Fire safety**

<b>x</b> X				
	Country		Class	The glass wool core
	Europe	EN 13501-1	A2-s1,d0	non-compusible acc

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



#### **Humidity Resistance**

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



#### Visual appearance

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



### Cleanability

Daily dusting and vacuum cleaning. Weekly wet wiping.



#### **Advanced Cleanability**

Steam cleaning. Can withstand use of hydrogen peroxide vapour.



### Surface Endurance

Product tested according to ISO 11998, and withstand 200 cycles.



#### **Chemical resistance/Disinfection**

Chemical	Active Substance	Concentration	Tested according to ISO 11998 and withstand the following chemicals or disinfectants.
Ethanol	Ethanol	70%	following chemicals of disinfectants.
Chlorine	Sodium Hypochlorite solution	2,5%	
Virkon S	Dipotassium peroxodisulphate; Sulphamidic acid	1%	
Isopropanol	Isopropyl Alcohol	70%	

Contraction of the second seco

#### Mould and Bacterial Resistance

Standard/Method				
ISO 846 A	0			
ISO 846 C	0			



#### **Clean Room**

	Class	
ISO 14644	Particle cleanliness class	ISO 3
NF S 90-351	Microbiological class	M1/area 4
NF S 90-351	Particle elimination kinetics	CP(0,5) 1



#### Air permeability

Product	Q50, positive (m3/m2/h)	Q50, positive (I/s/m2)	Q50, negative (m3/m2/h)	Q50, negative (I/s/m2)
Hygiene ProtecAir A 20mm	57,7	16,0	36,7	10,2
Hygiene ProtecAir A 40mm	54,3	15,1	47,8	13,3

Measured at positive respective negative room pressure at 50 Pa (Q50) EN ISO 9972 :2015



#### 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.



#### Installation

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



#### System weight

The weight of the system (including suspension grid) should be approximately 3-4 kg/m<sup>2</sup> for 20mm thickness and 4.5 kg/m<sup>2</sup> for 40mm thickness.



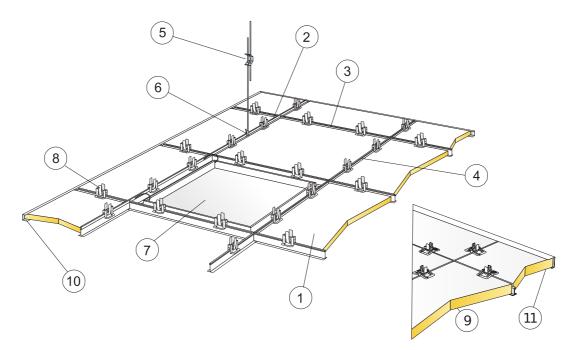
#### **Mechanical properties**

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

## CE

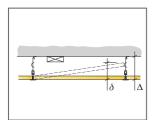
CE

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

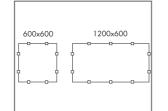


#### QUANTITY SPECIFICATION (EXCL. WASTAGE)

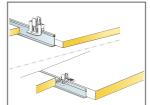
#### Size, mm 600x600 1200×600 Hygiene Protec Air A 2,8/m² 2,8/m² 2 0,9m/m² Connect T24 Main Runner, installed at 1200 mm centres (max distance from wall 300 mm) 0,9m/m<sup>2</sup> 3 1,7m/m² 1,7m/m<sup>2</sup> Connect T24 Cross Tee, L=1200 mm, installed at 600 mm centres 4 0,9m/m² 0,9m/m<sup>2</sup> Connect T24 Cross Tee, L=600 mm 5 Connect Adjustable Hanger, installed at 1200 mm centres (max. distance from wall 600 mm) 0,7/m² $0,7/m^2$ 6 Connect Hanger Clip (not to be used in swimming hall environments) $0,7/m^2$ $0,7/m^2$ 7 Connect Inspection Hatch C3 as required as required 8 Connect Hygiene Clip 20 $11/m^2$ $11/m^2$ 9 Connect Hygiene Clip 40 3254 11/m² 11/m² 10 Connect Channel Trim, fixed c300 (for 20 mm thickness) as required as required Connect Channel Trim, fixed c300 (for 40 mm thickness) 11 as required as required Connect Edge Sealant as required as required $\Delta$ Min. overall depth of system: 150 mm $\delta$ Min. demounting depth 20 mm: 150 mm $\delta$ 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)
600x600x20	50	160
600x600x40	50	160
1200x600x20	50	160
1200x600x40	50	160

Live load/load bearing capacity

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