

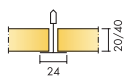
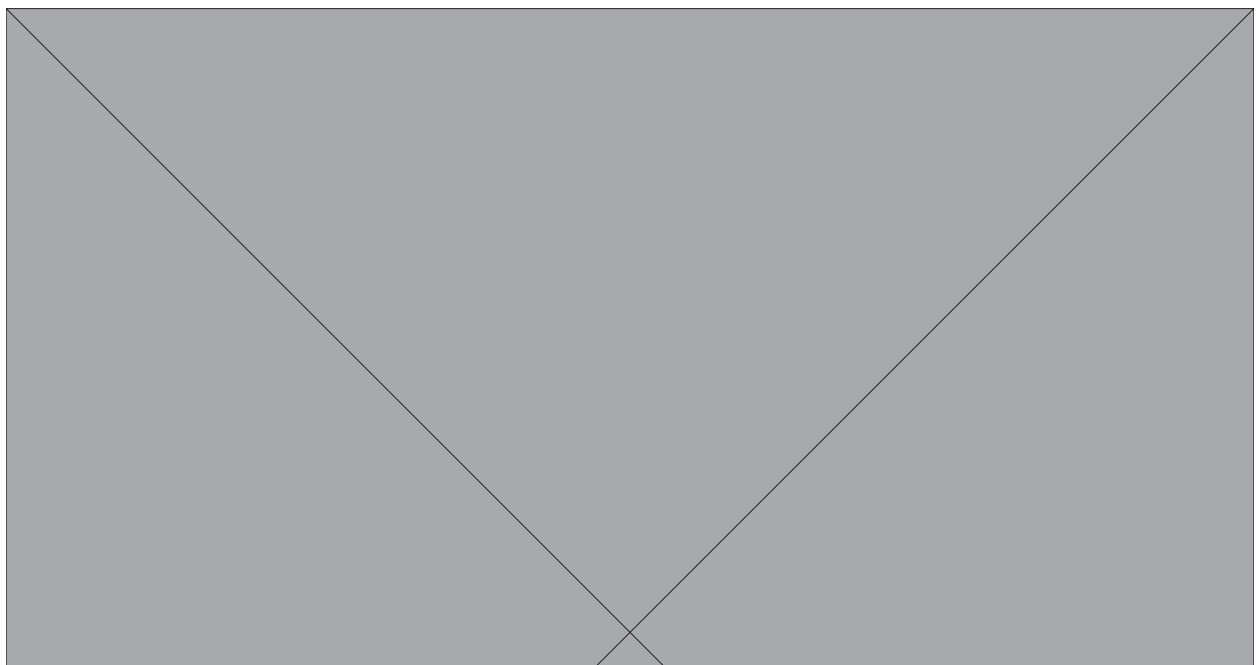


# Ecophon Hygiene LabotecAir™ A

Ecophon Hygiene LabotecAir A 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.

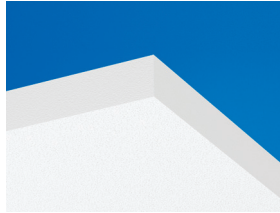
The supporting structure is an exposed Connect T24 grid of galvanised steel. The weight of the system is 3-4 kg/m<sup>2</sup>. The tiles should be secured to the grid with Connect Hygiene clips in order to withstand air pressure.

The system consists of Ecophon Hygiene LabotecAir A tiles, which have a core of high density glass wool and a painted particle-repellent Akutex™ HP surface. The back of the tile is covered with a airtight glass tissue. The edges are painted.



## SYSTEM RANGE

Size, mm	600x600	600x600	1200x600	1200x600
T24	•	•	•	•
Thickness (THK)	20	40	20	40
Inst. Diag.	M337	M337	M337	M337



Hygiene LabotecAir A tile



Hygiene LabotecAir A C1 section with Connect Hygiene clip 20



Hygiene LabotecAir A system

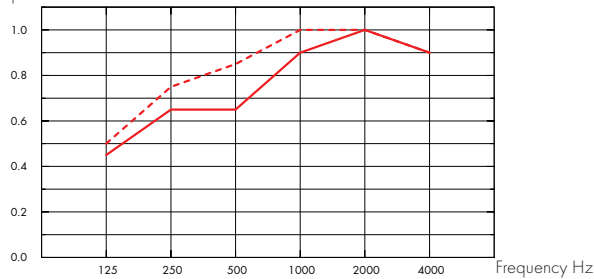


## Acoustic

### Sound Absorption:

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

$\alpha_p$  Practical sound absorption coefficient



— Hygiene Labotec Air A 20 mm, 200 mm o.d.s.

- - - Hygiene Labotec 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						$\alpha_w$	Sound absorption class
		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz		
20	200	0.45	0.65	0.65	0.90	1.00	0.90	0.75	C
40	200	0.50	0.75	0.85	1.00	1.00	0.90	0.95	A



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



## 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 m<sup>3</sup>/(h x m<sup>2</sup> x Pa)

Hygiene LabotecAir A: 40 mm: 0,7 m<sup>3</sup>/(h x m<sup>2</sup> x Pa)



## CO<sub>2</sub>

Kg CO<sub>2</sub> equiv/m<sup>2</sup>

3,91

From EPD in conformity with ISO 14025 / EN 15804



## Influence of climate

The tiles withstand a permanent ambient RH up to 95% at 30°C following the test standard in EN 13964. The tiles are also available for especially demanding conditions. Please contact Ecophon for specifying your project.



## Indoor Climate

### Certificate / Label

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

Certified by the Indoor Climate Labelling, 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

Fully recyclable.



## Fire safety

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

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



## Mechanical properties

See table about Max live load and Min load bearing capacity and Functional demands, Mechanical properties at [www.ecophon.com](http://www.ecophon.com).



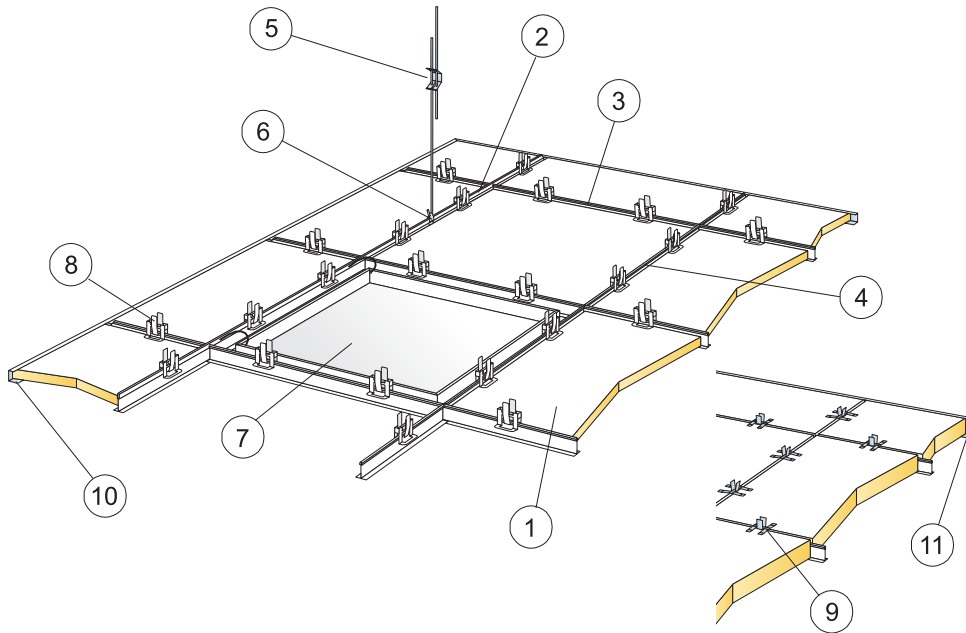
## Installation

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



## CE

The CE marking confirms important product performance such as sound absorption, emissions, fire safety and load bearing capacity. All Ecophon ceiling products are CE marked according to European standard EN13964, and individual product performance is declared in Declaration of Performance (DoP) documents.



© Ecophon Group

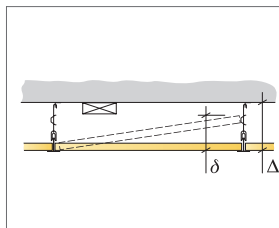
### QUANTITY SPECIFICATION (EXCL. WASTAGE)

		Size, mm	
		600x600	1200x600
1	Hygiene LabotecAir A	2,8/m <sup>2</sup>	1,4/m <sup>2</sup>
2	Connect T24 Main runner, installed at 1200 mm centres (max distance from wall 300 mm)	0,9m/m <sup>2</sup>	0,9m/m <sup>2</sup>
3	Connect T24 Cross tee, L=1200 mm, installed at 600 mm centres	1,7m/m <sup>2</sup>	1,7m/m <sup>2</sup>
4	Connect T24 Cross tee, L=600 mm	0,9m/m <sup>2</sup>	-
5	Connect Adjustable hanger, installed at 1200 mm centres (max. distance from wall 600 mm)	0,7/m <sup>2</sup>	0,7/m <sup>2</sup>
6	Connect Hanger clip (not to be used in swimming hall environments)	0,7/m <sup>2</sup>	0,7/m <sup>2</sup>
7	Connect Inspection hatch	as required	as required
8	Connect Hygiene clip 20	11/m <sup>2</sup>	7/m <sup>2</sup>
9	Connect Hygiene clip 40	11/m <sup>2</sup>	7/m <sup>2</sup>
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

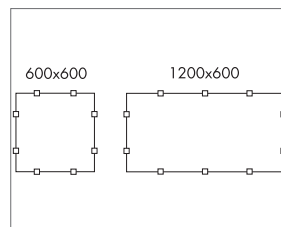
Δ Min. overall depth of system: 150 mm

δ Min. demounting depth 20 mm: 150 mm

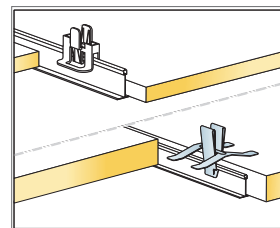
δ Min. demounting depth 40 mm: 170 mm



See Quantity specification



Arrangement of clips



Clip for keeping tiles in place for 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