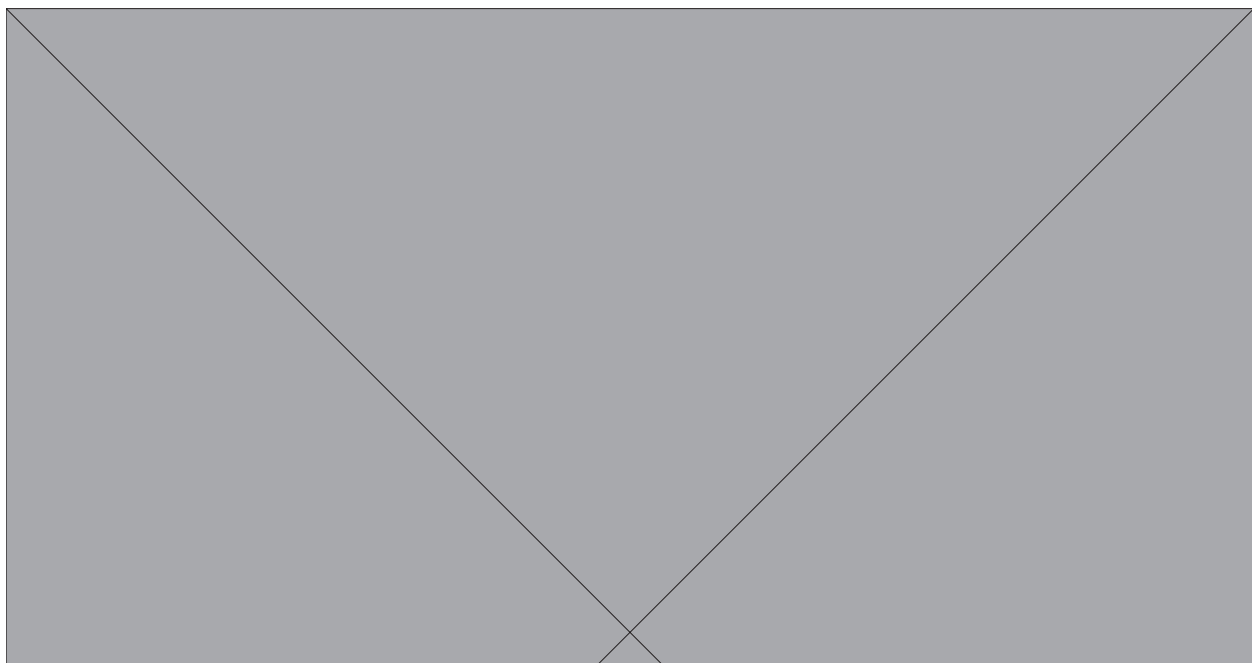


Ecophon Hygiene LabotecAir™ A C1

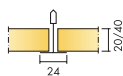
Ecophon Hygiene LabotecAir A C1 is a wall to wall, sound-absorbing ceiling system intended for environments where there are demands on low particle emission, air pressure control and where occasional wet wiping and/ or disinfection is required. Examples of applications: laboratories, the pharmaceutical 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, 3rd generation 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. 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.



SYSTEM RANGE



Size, mm	600x600	600x600	1200x600	1200x600
T24	•	•	•	•
Thickness	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 C1 system

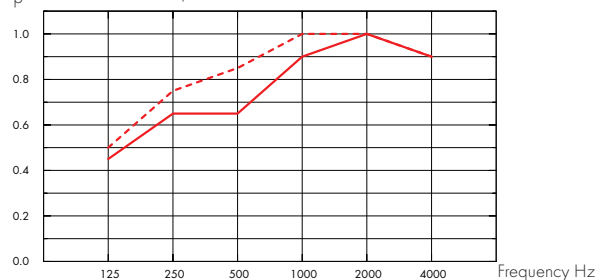


Acoustic

Sound Absorption:

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

α_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	α_p Practical sound absorption coefficient						α_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



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.



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)



Indoor Climate

Certificate / Label

Europe

EN
13501-1

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



Environmental influence

Certificate / Label

Europe

EN
13501-1

Glass wool core utilizing 3RD Technology. In combination with Master Rigid system Extra Bass is granted the Nordic Swan eco-label. 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.



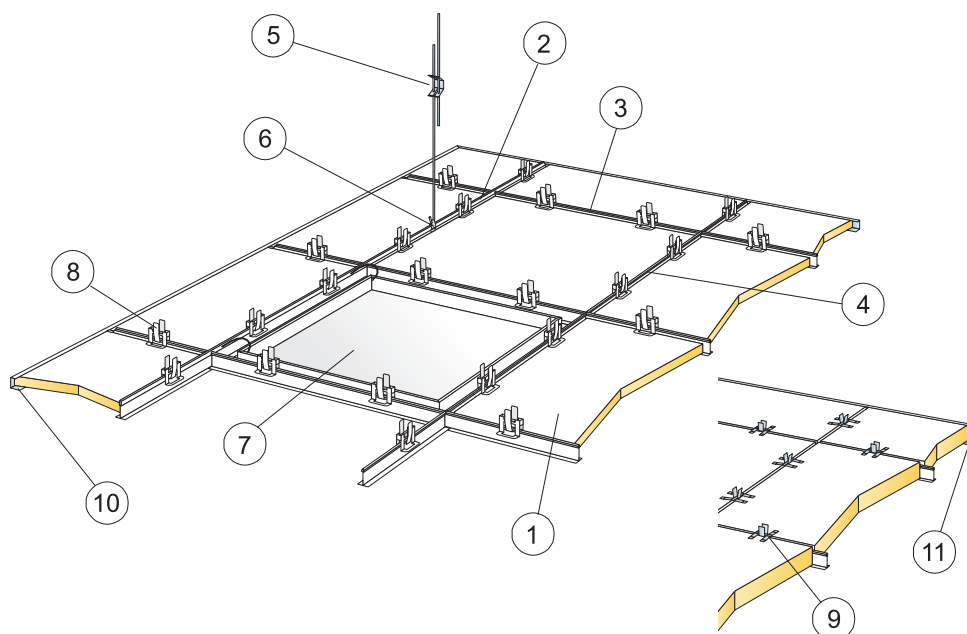
Installation

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



CE

2,9 kg equivalent CO₂ / m² according to EPD



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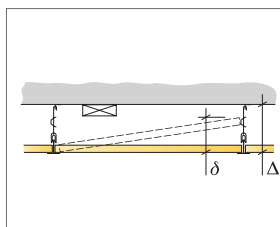
QUANTITY SPECIFICATION (EXCL. WASTAGE)

		Size, mm	
		600x600	1200x600
1	Hygiene Labotec Air 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 (not to be used in swimming hall environments)	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 3254	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

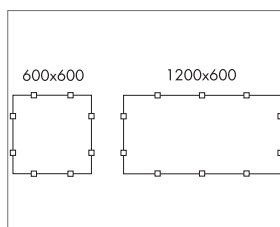
Δ Min. overall depth of system: 150 mm

δ Min. demounting depth 20 mm: 150 mm

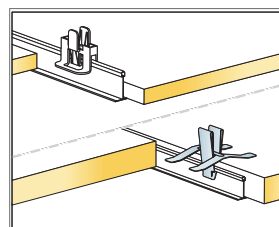
δ Min. demounting depth 40 mm: 170 mm



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