

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.

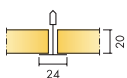
The system consists of Ecophon Hygiene Protec A tiles, which have a core of high density, 3rd generation glass wool and a painted particle-repellent Akutex™ HP surface. The rear side and the edges are painted. The supporting

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.

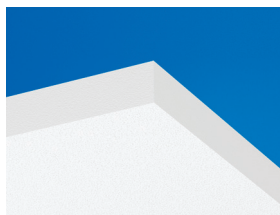


Beiersdorf, Germany

SYSTEM RANGE



Size, mm	600x600	1200x600
T24	•	•
Thickness	20	20
Inst. Diag.	M257	M257



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

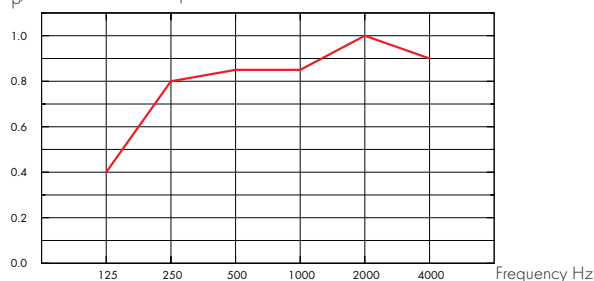


Acoustic

Sound Absorption:

Test results according to EN ISO 354. Classification according to EN ISO 11654, and the single value ratings for Noise Reduction Coefficient, NRC and Sound Absorption Average, SAA according to ASTM C 423.

α_p Practical sound absorption coefficient



— Hygiene Protec A 20 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	0,40	0,80	0,85	0,85	1,00	0,90	0,90	A

THK mm	o.d.s. mm	NRC	SAA
20	200	0,90	0,89



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

Certificate / Label

Europe

EN
13501-1

Can be used in rooms classified as ISO class 5 according to ISO 14644-1.



Environmental influence

Certificate / Label

Europe

EN
13501-1

Fully recyclable.



CO₂

Kg CO₂ equiv/m²

5,2

2,9 kg equivalent CO₂ / m² according to EPD



Fire safety

Country

Europe

Standard

EN 13501-1

Class

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.



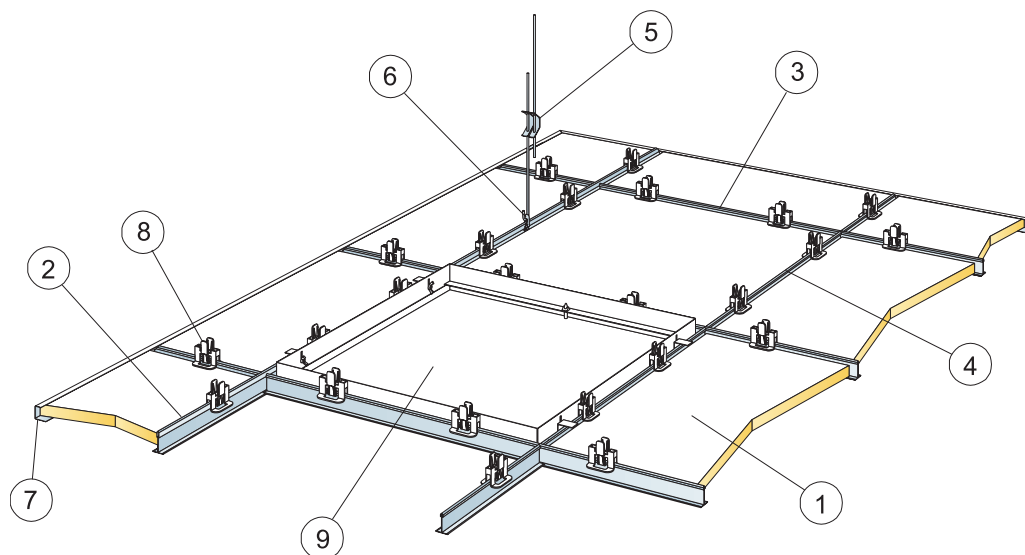
Installation

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



CE

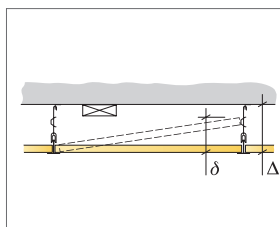
The CE marking confirms important product performance such as sound absorption, emissions, fire safety and load bearing capacity. All Ecophon ceiling products are CE marked according to European standard EN13964, and individual product performance is declared in Declaration of Performance (DoP) documents.



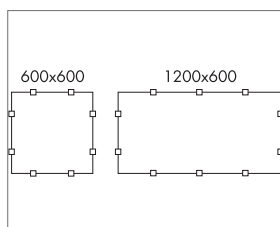
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QUANTITY SPECIFICATION (EXCL. WASTAGE)

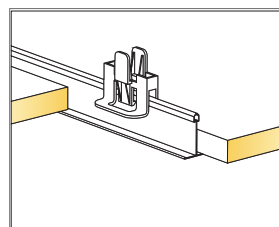
		Size, mm	
		600x600	1200x600
1	Hygiene Protec A	2,8/m ²	1,4/m ²
2	Connect T24 Main runner, installed at 1200 mm centres (max distance from wall 300 mm)	0,9m/m ²	0,9m/m ²
3	Connect T24 Cross tee, L=1200 mm, installed at 600 mm centres	1,7m/m ²	1,7m/m ²
4	Connect T24 Cross tee, L=600 mm	0,9m/m ²	-
5	Connect 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 (not to be used in swimming hall environments)	0,7/m ²	0,7/m ²
7	Connect Channel trim, fixed c300	as required	as required
8	Connect Hygiene clip 20 0172	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