

# Ecophon Hygiene Protec™ Ds

Ecophon Hygiene Protec™ Ds has a concealed grid and are particle repellent for clean rooms, where disinfection and/or cleaning is required on a regular basis. The fully cealed absorbers have low emission levels, ensuring high indoor air quality. They are resistant to mould and bacteria growth.



#### **SYSTEM RANGE**



Size, mm	600x600	1200x600
T24	•	•
Thickness (THK)	20	20
Inst. Diagr.	M468	M468



Hygiene Protec Ds tile



Connect Hold Down Clip Ds



Sealed junction with wall



Hygiene Protec Ds C1 system

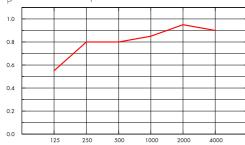


#### **Acoustic**

## **Sound Absorption:**

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

 $lpha_{\scriptscriptstyle D}$ , Practical sound absorption coefficient



Hygiene Protec Ds 20 mm, 200 mm o.d.s.

Frequency Hz

THK	o.d.s. mm		$lpha_{p'}$ Pr	ractical sound	d absorption c	oefficient		α,,,	Sound absorption class
mm	0.0.3. 111111	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	o.w	Sound absorption class
20	200	0.55	0.80	0.80	0.85	0.95	0.90	0.85	В



## **Indoor Air Quality**

Certificate / Label	
Eurofins Indoor Air Comfort®	IAC
French VOC	А
Finnish M 1	•









# **Environmental Footprint**

Kg CO  $_2$  equiv/m  $^2\!:$  7,1 From family EPD in conformity with ISO 14025 / EN 15804



### Circularity

Minimum post-consumer recycled content	47%
Recyclability	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.



## **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**

Withstand use of hydrogen peroxide vapor.



#### **Surface Endurance**

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



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

Chemical		
Ethanol	Ethanol	70%
Chlorine	Sodium Hypochlorite solution	2,5%
Virkon S	Dipotassium peroxodisulphate; Sulphamidic acid	1%
Isopropanol	Isopropyl Alcohol	70%

Tested according to ISO 11998 and withstand the following chemicals or disinfectants.



## **Mould and Bacterial Resistance**

Standard/Method	
ISO 846 A	0
ISO 846 C	0



#### **Clean Room**

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



#### Accessibility

The tiles are demountable.



#### 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  $3-4\ kg/m^2$ .



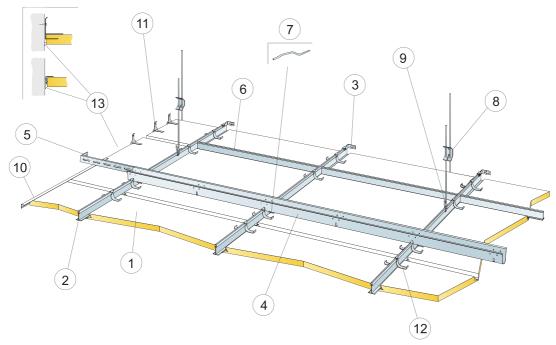
## **Mechanical properties**

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



# CE

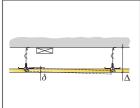
Ecophon ceiling systems are CE marked according to the European harmonized standard EN13964:2014. CE marked construction products are covered by a Declaration of Performance (DOP) which enables customers and users to easily compare performance of products available on the European market.



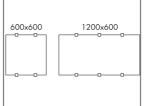
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## QUANTITY SPECIFICATION (EXCL. WASTAGE)

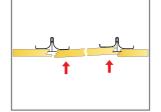
	Size, mm	
	600×600	1200×600
Hygiene Protec Ds	2,8/m²	1,4/m²
Connect T24 Main Runner HD, installed at 600 mm centres	1,7m/m²	1,7m/m²
Connect Wall Bracket for T-profiles	1/suspended row of Main runner	
Connect Space Bar, installed at 1500 mm centres (max. distance from wall 300 mm)	0,7m/m²	0,7m/m²
Connect Wall Bracket, L=700 mm, for Connect Space Bar	1/row of Space bar	
Connect T24 Cross Tee, L=600 mm	2/row of Main runner	
Connect Space Bar Winch, installed one per joint Connect Main Runner/Connect Space Bar	1,4/m²	1,4/m²
Connect Adjustable Hanger, installed at 1200 mm centres (max. distance from wall 600 mm)	0,7/m²	0,7/m²
Connect Hanger Clip (not to be used in swimming hall environments)	0,7/m²	0,7/m²
Alt. Connect Frieze Trim, fixed c300 mm	as required	as required
Connect Frieze Bracket, installed at 500 mm centre. Minimum free depth above tile 150 mm.	2/cut tile with one bearing edge	3/cut tile with one bearing edge
Connect Hold Down Clip Ds	2/tile, 50-100 mm from corners	3/tile, 50-100 mm from corners
Joint sealant (not supplied by Ecophon)	as required	as required
$\Delta$ Min. overall depth of system: 170 mm		
$\delta$ Min. demounting depth: 30 mm		
	Connect T24 Main Runner HD, installed at 600 mm centres  Connect Wall Bracket for T-profiles  Connect Space Bar, installed at 1500 mm centres (max. distance from wall 300 mm)  Connect Wall Bracket, L=700 mm, for Connect Space Bar  Connect T24 Cross Tee, L=600 mm  Connect Space Bar Winch, installed one per joint Connect Main Runner/Connect Space Bar  Connect Adjustable Hanger, installed at 1200 mm centres (max. distance from wall 600 mm)  Connect Hanger Clip (not to be used in swimming hall environments)  Alt. Connect Frieze Trim, fixed c300 mm  Connect Frieze Bracket, installed at 500 mm centre. Minimum free depth above tile 150 mm.  Connect Hold Down Clip Ds  Joint sealant (not supplied by Ecophon)  A Min. overall depth of system: 170 mm	Hygiene Protec Ds  Connect T24 Main Runner HD, installed at 600 mm centres  1,7m/m²  Connect Wall Bracket for T-profiles  1/suspended row of Main runner  Connect Space Bar, installed at 1500 mm centres (max. distance from wall 300 mm)  0,7m/m²  Connect Wall Bracket, L=700 mm, for Connect Space Bar  1/row of Space bar  1/row of Space bar  Connect T24 Cross Tee, L=600 mm  2/row of Main runner  Connect Space Bar Winch, installed one per joint Connect Main Runner/Connect Space Bar  1,4/m²  Connect Adjustable Hanger, installed at 1200 mm centres (max. distance from wall 600 mm)  0,7/m²  Connect Hanger Clip (not to be used in swimming hall environments)  0,7/m²  Alt. Connect Frieze Trim, fixed c300 mm  as required  Connect Frieze Bracket, installed at 500 mm centre. Minimum free depth above tile 150 mm.  2/cut tile with one bearing edge  Connect Hold Down Clip Ds  2/tile, 50-100 mm from corners  Joint sealant (not supplied by Ecophon)  as required  A Min. overall depth of system: 170 mm







Arrangement of clips



Demounting of tile from below

600x600	Max live load (N) 50	Min load bearing capacity (N) 160
1200x600	50	160

Live load/load bearing capacity