# Ecophon Hygiene Performance™ A

Ecophon Hygiene Performance™ A is suitable for humid areas and withstands advanced cleaning, such as steam and high/low pressure washing on a regular basis. The surface is resistant to common detergents and disinfectants.

Technopolis Yliopistorinne, Finland

SYSTEM RANGE
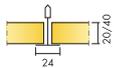
Size, mm	600x600	600x600	1200x600	1200x600
T24	•	•	•	•
Thickness (THK)	20	40	20	40
Inst. Diagr.	M395C3, M266C4	M395C3, M266C4	M395C3, M266C4	M395C3, M266C4

Hygiene Performance A tile
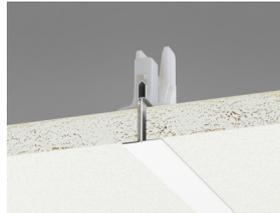
Hygiene Performance A C3 section with Connect Hygiene clip 20


Hygiene Performance A system

Acoustic

Sound Absorption:
Test results according to EN ISO 354. Classification according to EN ISO 11654.

α_p, Practical sound absorption coefficient
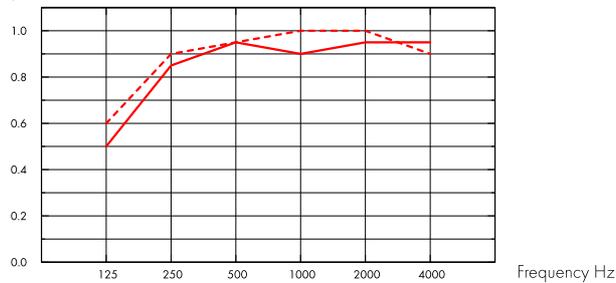
— Hygiene Performance A 20 mm, 200 mm o.d.s.

--- Hygiene Performance A 40 mm, 200 mm o.d.s.

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	0.50	0.85	0.95	0.90	0.95	0.95	0.95	A
40	200	0.60	0.90	0.95	1.00	1.00	0.90	1.00	A

Indoor Air Quality

Certificate / Label	
Eurofins Indoor Air Comfort®	IAC
French VOC	A
Finnish M1	•

Environmental Footprint

Kg CO_2 equiv/m²	
Hygiene Performance A 20 mm	2,4 (Hygiene family EPD in conformity with ISO 14025 / EN 15804)
Hygiene Performance A 40 mm	4,2 (Hygiene 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

High and low pressure cleaning with water and steam cleaning. Withstand use of hydrogen peroxide vapor.

Surface Endurance

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

Chemical resistance/Disinfection

Chemical	Active Substance	Concentration
Actichlor plus	NaDCC (Sodium Dichloroisocyanurate)	1%
LifeClean	Chlorine dioxide	Undiluted
Etanol	Etanol	70%
Chlorine	Sodium Hypochlorite solution	2,5%
Virkon S	Dipotassium peroxodisulphate; Sulphamidic acid	1%
Isopropanol	Isopropyl Alcohol	70%
Oxivir Excel	Hydrogen peroxide	0,5%
Sumabac D10	Quaternary ammonium compound, Sodium carbonate	1%
Suredis VT1	n-(3-aminopropyl)-n-dodecylpropan-1,3-diamin	1%
Enduro Chlor VE5	Potassium hydroxide	1,5%
Aciplusfoam VF59	Nitric Acid	5%

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

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

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.

Installation

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

System weight

The weight of the system (including suspension grid) should be approximately 3-4 kg/m² for 20mm thickness and 5 kg/m² 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

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			
		600x600	**600x600**	**1200x600**	**1200x600**
1	Hygiene Performance A	2,8/m²	2,8/m²	1,4/m²	1,4/m²
2	Connect T24 Main Runner C3, installed at 1200 mm centres	0,9m/m²	0,9m/m²	0,9m/m²	0,9m/m²
3	Connect T24 Cross Tee C3, L=1200 mm, installed at 600 mm centres	1,7m/m²	1,7m/m²	1,7m/m²	1,7m/m²
4	Connect T24 Cross Tee C3, L=600 mm	0,9m/m²	0,9m/m²	-	-
5	Connect Adjustable Hanger C3, c1200 (max distance from wall 600 mm)	0,7/m²	0,7/m²	0,7/m²	0,7/m²
6	Connect Hanger Clip (not to be used in swimming hall environments)	0,7/m²	0,7/m²	0,7/m²	0,7/m²
7	Connect Inspection Hatch C3	as required	as required	as required	as required
8	Connect Hygiene Clip 20	11/m²	11/m²	7/m²	7/m²
9	Connect Hygiene Clip 40	11/m²	11/m²	7/m²	7/m²
10	Connect Channel Trim C3, fixed c300 (for 20 mm thickness)	as required	as required	as required	as required
11	Connect Channel Trim C3, fixed c300 (for 40 mm thickness)	as required	as required	as required	as required
12	Connect Anchor Screw C4	0,7/m²	0,7/m²	0,7/m²	0,7/m²
13	Connect Fixing Plate C4	0,7/m²	0,7/m²	0,7/m²	0,7/m²
	Δ Min. overall depth of system: 150 mm	-	-	-	-
	δ Min. demounting depth 20 mm: 150 mm	-	-	-	-
	δ Min. demounting depth 40 mm: 170 mm	-	-	-	-
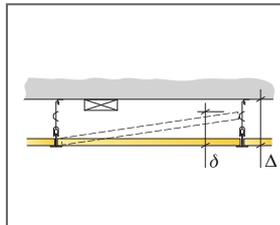
See Quantity Specification
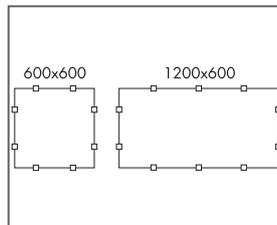
Arrangement of clips
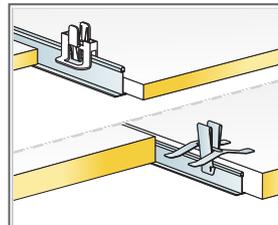
Clips for keeping tiles in position

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

Live load/load bearing capacity

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QUANTITY SPECIFICATION (EXCL. WASTAGE)

		Size, mm			
		600x600	600x600	1200x600	1200x600
1	Hygiene Performance A	2,8/m²	2,8/m²	1,4/m²	1,4/m²
2	Connect T24 Main Runner C4, c1200	0,9m/m²	0,9m/m²	0,9m/m²	0,9m/m²
3	Connect T24 Cross Tee C4, L=1200, c600	1,7m/m²	1,7m/m²	1,7m/m²	1,7m/m²
4	Connect T24 Cross Tee C4, L=600	0,9m/m²	0,9m/m²	-	-
5	Connect Adjustable Hanger C4, c1200, (max 600 mm distance from wall)	0,7/m²	0,7/m²	0,7/m²	0,7/m²
6	Connect Hygiene Clip 20	11/m²	11/m²	7/m²	7/m²
7	Connect Hygiene Clip 40 C4	11/m²	11/m²	7/m²	7/m²
8	Connect Channel Trim C4, fixed at c300 mm	as required	as required	as required	as required
9	Connect Demo Clip 20 C4, (where access is needed)	as required	as required	as required	as required
10	Connect Fixing Plate C4	0,7/m²	0,7/m²	0,7/m²	0,7/m²
11	Connect Anchor Screw C4	0,7/m²	0,7/m²	0,7/m²	0,7/m²
12	Connect Installation Screw C4	3,4/lm Channel trim C4			
	Δ Min. overall depth of system: 150 mm	-	-	-	-
	δ Min. demounting depth: 150 mm	-	-	-	-
	δ Min. demounting depth 40 mm: 170 mm	-	-	-	-
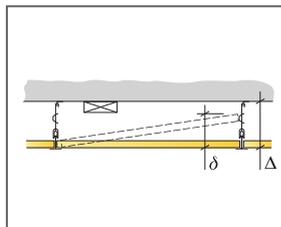
See Quantity Specification
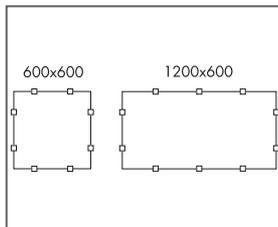
Arrangement of clips
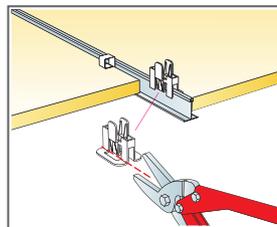
Cutting of Connect Hygiene Clip 20 at the inspection tile

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

Live load/load bearing capacity