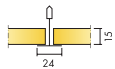# Ecophon Hygiene Clinic™ A

Ecophon Hygiene Clinic™ A has an exposed grid, suitable for dry areas. The absorbers have low emission levels, ensuring high indoor air quality. They are resistant to mould and bacteria growth and withstand HPV cleaning.
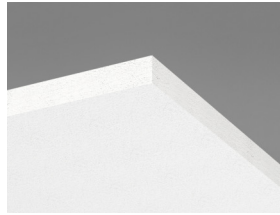

Joensuu Hospital, Joensuu, Finland

SYSTEM RANGE

Size, mm	600x600	1200x600
T24	•	•
Thickness	15	15
Inst. Diagr.	M338	M338

Section of Hygiene Clinic A system

Hygiene Clinic A tile
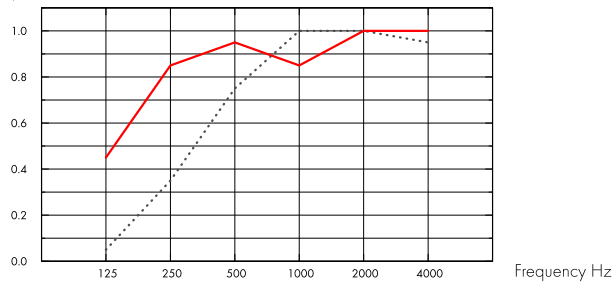

Hygiene Clinic A system

Acoustic

Sound Absorption:

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

α_p, Practical sound absorption coefficient

···· Hygiene Clinic A 15 mm, 50 mm o.d.s.

— Hygiene Clinic A 15 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		
15	50	0.05	0.35	0.75	1.00	1.00	0.95	0.65	C
15	200	0.45	0.85	0.95	0.85	1.00	1.00	0.95	A

THK mm	o.d.s. mm	NRC	SAA
15	50	0.80	0.79
15	200	0.90	0.91

Indoor Air Quality

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

Environmental Footprint

Kg CO_2 equiv/m²: 2,6 From family EPD in conformity with ISO 14025 / EN 15804

Circularity

Minimum post-consumer recycled content	46%
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

Can withstand use of hydrogen peroxide vapour.

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 easily demountable. Minimum demounting depth according to installation diagrams.

Installation

Installed according to installation diagrams, installation guides and drawing aid. For information regarding minimum overall depth of system see quantity specification.

System weight

The weight of the system (including suspension grid) should be approximately 2,5 kg/m².
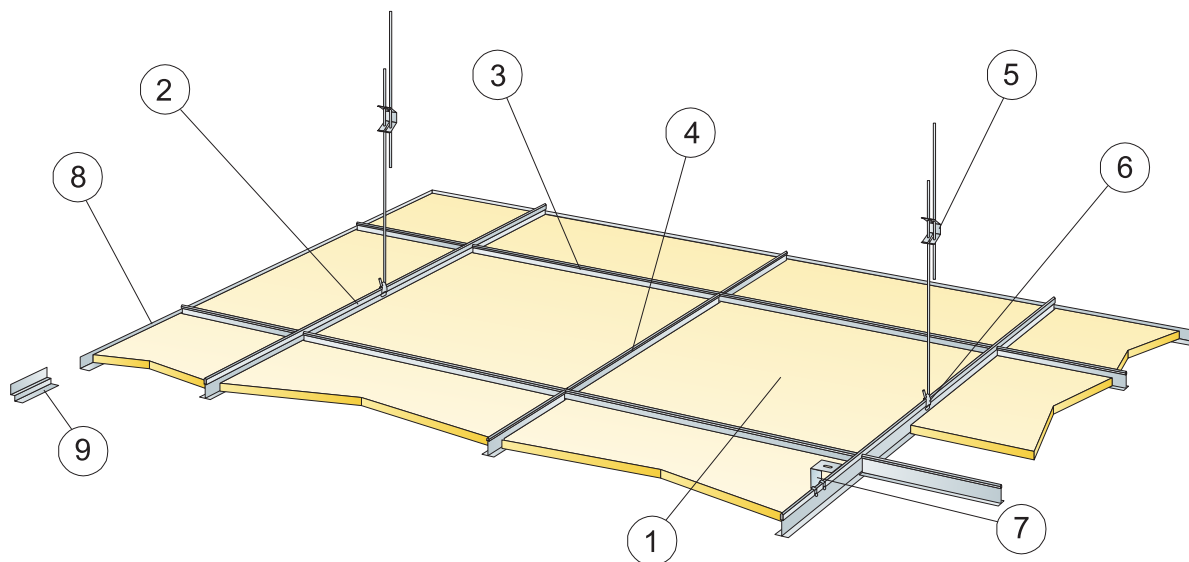
Mechanical properties

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.

© Ecophon Group

QUANTITY SPECIFICATION (EXCL. WASTAGE)

		Size, mm	
		600x600	**1200x600**
1	Hygiene Clinic A	2,8/m²	1,4/m²
2	Connect T24 Main Runner, installed at 1200 mm centres (max distance from wall 300 mm)	0,9m/m²	0,9m/m²
3	Connect T24 Cross Tee, L=1200 mm, installed at 600 mm centres	1,7m/m²	1,7m/m²
4	Connect T24 Cross Tee, L=600 mm	0,9m/m²	-
5	Connect Adjustable Hanger, installed at 1200 mm centres (max. distance from wall 600 mm)	0,7/m²	0,7/m²
6	Connect Hanger Clip (not to be used in swimming hall environments)	0,7/m²	0,7/m²
7	For direct installation: Connect Direct Bracket, installed at 1200 mm centres	0,7/m²	0,7/m²
8	Connect Angle Trim, fixed at 300 mm centres	as required	as required
9	Connect Shadow-line Trim, fixed at 300 mm centres	as required	as required
	Δ Min. overall depth of system, with adjustable hanger: 100 mm, with direct bracket: 50 mm	-	-
	δ Min. demounting depth: 120 mm	-	-
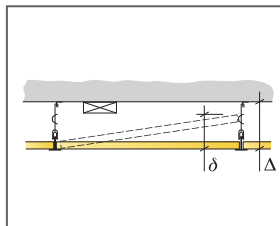
See Quantity Specification
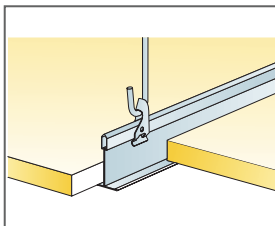
Suspension with Connect Adjustable Hanger and Connect Hanger Clip
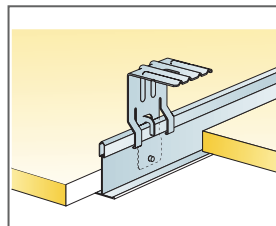
Suspension with Connect Direct Bracket

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

Live load/load bearing capacity

Ecophon Hygiene Clinic™ E

Ecophon Hygiene Clinic™ E has a recessed visible grid and a tegular edge design, suitable for dry areas. The absorbers have low emission levels, ensuring high indoor air quality. They are resistant to mould and bacteria growth and withstand HPV cleaning.
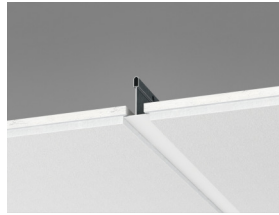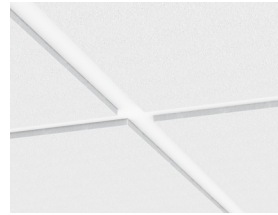

Centre de dialyse de Pau, ,
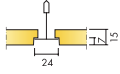
SYSTEM RANGE

Size, mm	600x600	1200x600
T24	•	•
Thickness	15	15
Inst. Diagr.	M339	M339

Hygiene Clinic E tile

Section of Hygiene Clinic E system
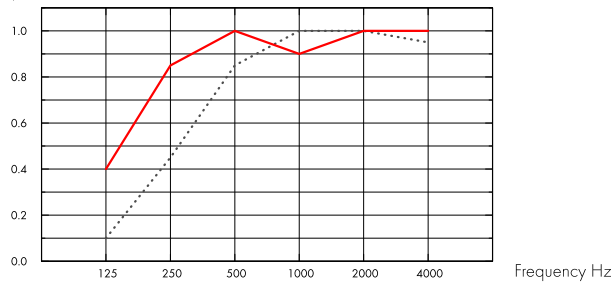

Hygiene Clinic E system

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 Clinic E 15 mm, 60 mm o.d.s.

— Hygiene Clinic E 15 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		
15	60	0.10	0.45	0.85	1.00	1.00	0.95	0.75	C
15	200	0.40	0.85	1.00	0.90	1.00	1.00	1.00	A

Indoor Air Quality

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

Environmental Footprint

Kg CO₂ equiv/m²: 2,2 From family EPD in conformity with ISO 14025 / EN 15804

Circularity

Minimum post-consumer recycled content	45%
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

Can withstand use of hydrogen peroxide vapour.

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 easily demountable. Minimum demounting depth according to installation diagrams.

Installation

Installed according to installation diagrams, installation guides and drawing aid. For information regarding minimum overall depth of system see quantity specification.

System weight

The weight of the system (including suspension grid) should be approximately 2,5 kg/m².
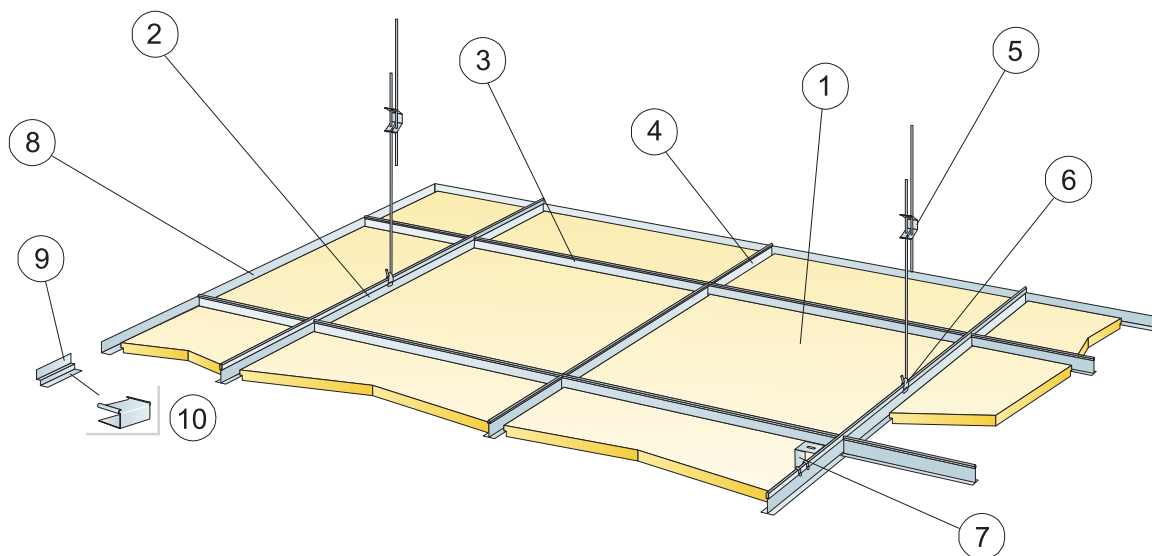
Mechanical properties

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.

© Ecophon Group

QUANTITY SPECIFICATION (EXCL. WASTAGE)

		Size, mm	
		600x600	**1200x600**
1	Hygiene Clinic E	2,8/m²	1,4/m²
2	Connect T24 Main Runner, installed at 1200 mm centres (max distance from wall 300 mm)	0,9m/m²	0,9m/m²
3	Connect T24 Cross Tee, L=1200 mm, installed at 600 mm centres	1,7m/m²	1,7m/m²
4	Connect T24 Cross Tee, L=600 mm	0,9m/m²	-
5	Connect Adjustable Hanger, installed at 1200 mm centres (max. distance from wall 600 mm)	0,7/m²	0,7/m²
6	Connect Hanger Clip (not to be used in swimming hall environments)	0,7/m²	0,7/m²
7	For direct installation: Connect Direct Bracket, installed at 1200 mm centres	0,7/m²	0,7/m²
8	Connect Angle Trim, fixed at 300 mm centres	as required	as required
9	Connect Shadow-line Trim, fixed at 300 mm centres	as required	as required
10	Connect E-plug 0158/0154 (for Connect Shadow-line Trim)	as required	as required
Δ	Min. overall depth of system, with adjustable hanger: 110 mm, with direct bracket: 60 mm.	-	-
δ	Min. demounting depth: T15: 110 mm, T24: 90 mm	-	-
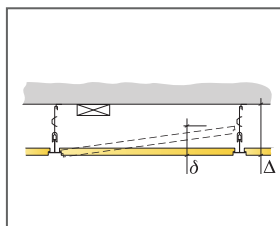
See Quantity Specification
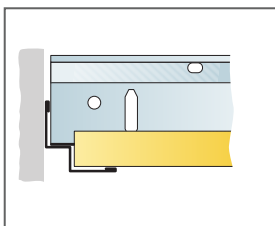
Straight cut and T-profile on top of Connect Shadow-line Trim
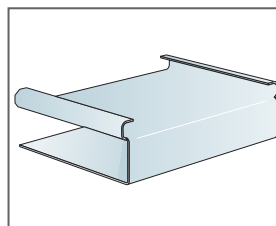
Connect E-plug

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

Live load/load bearing capacity
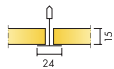
Ecophon Hygiene Meditec™ A

Ecophon Hygiene Meditec™ A has an exposed grid, suitable for dry areas where disinfection and/or cleaning is required on a regular basis. The surface is resistant to mould and bacteria growth and common detergents and disinfectants. The absorbers have low emission levels, ensuring high indoor air quality.
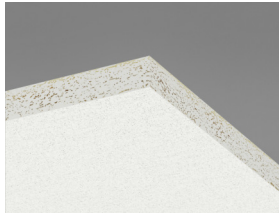

, Spain

SYSTEM RANGE

Size, mm	600x600	1200x600
T24	•	•
Thickness	15	15
Inst. Diagr.	M255	M255

Hygiene Meditec A tile

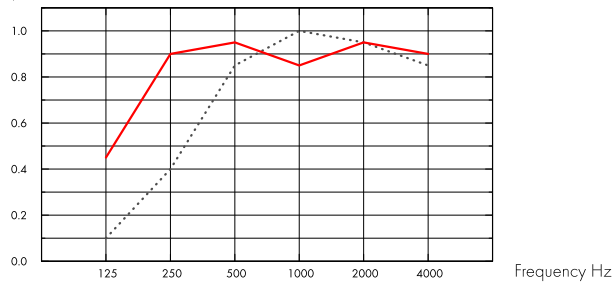Hygiene Meditec A C1 section with Connect Universal clip

Hygiene Meditec 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

Frequency Hz

···· Hygiene Meditec A 15 mm, 50 mm o.d.s.

— Hygiene Meditec A 15 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		
15	50	0.10	0.40	0.85	1.00	0.95	0.85	0.70	C
15	200	0.45	0.90	0.95	0.85	0.95	0.90	0.95	A

THK mm	o.d.s. mm	NRC	SAA
15	50	0.80	0.83
15	400	0.85	0.89

Indoor Air Quality

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

Environmental Footprint

Kg CO_2 equiv/m²: 2,7 From family EPD in conformity with ISO 14025 / EN 15804

Circularity

Minimum post-consumer recycled content	44%
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

Can withstand use of hydrogen peroxide vapour.

Surface Endurance

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

Chemical resistance/Disinfection

Chemical	Active Substance	Concentration
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

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 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.

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.

Mechanical properties

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

System weight

The weight of the system (including suspension grid) should be approximately 2,5 kg/m².

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.

INSTALLATION DIAGRAM (M255) FOR ECOPHON HYGIENE MEDITEC™ A
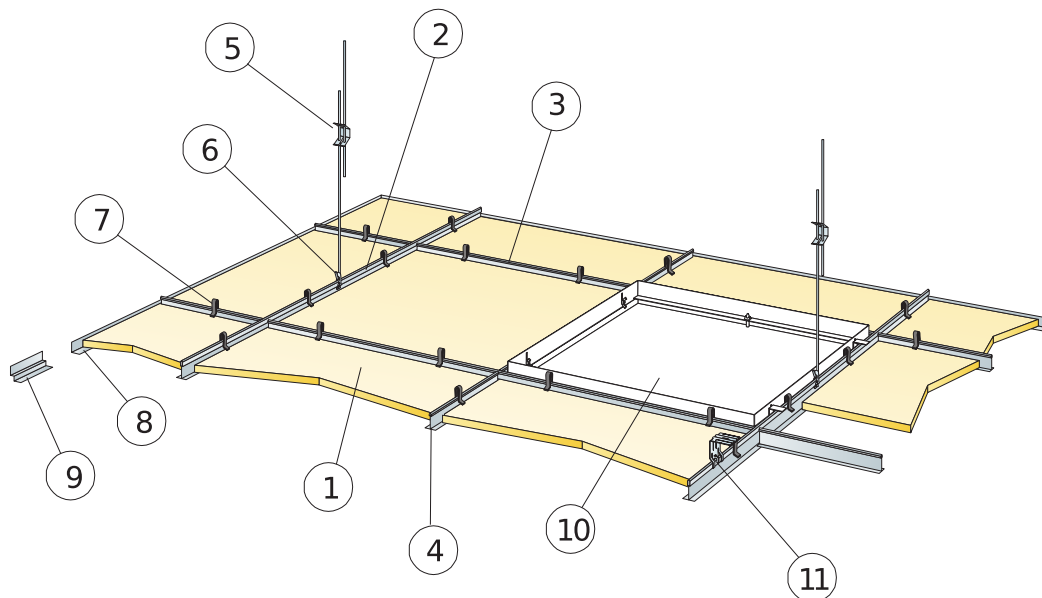
© Ecophon Group

QUANTITY SPECIFICATION (EXCL. WASTAGE)

		Size, mm	
		600x600	**1200x600**
1	Hygiene Meditec A	2,8/m²	1,4/m²
2	Connect T24 Main Runner, installed at 1200 mm centres (max distance from wall 300 mm)	0,9m/m²	0,9m/m²
3	Connect T24 Cross Tee, L=1200 mm, installed at 600 mm centres	1,7m/m²	1,7m/m²
4	Connect T24 Cross Tee, L=600 mm	0,9m/m²	-
5	Connect Adjustable Hanger, installed at 1200 mm centres (max. distance from wall 600 mm)	0,7/m²	0,7/m²
6	Connect Hanger Clip (not to be used in swimming hall environments)	0,7/m²	0,7/m²
7	Connect Universal Clip 0083	11/m²	7/m²
8	Alt. Connect Angle Trim, fixed c300	as required	as required
9	Alt. Connect Shadow-line Trim, fixed c300	as required	as required
10	Connect Inspection Hatch	as required	as required
11	For direct installation: Connect Direct Bracket, installed at 1200 mm centres	0,7/m²	0,7/m²
	Δ Min. overall depth of system, with adjustable hanger and clip: 150 mm, with direct fixing wituout clip: 50 mm.	-	-
	δ Min. demounting depth: With clip: 150 mm. Without clip: 100 mm.	-	-
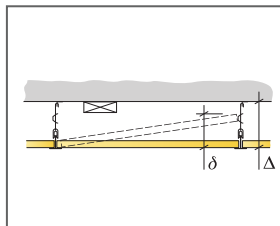
See Quantity Specification
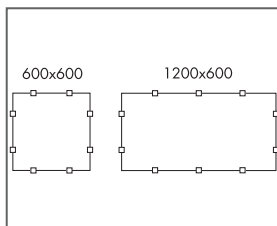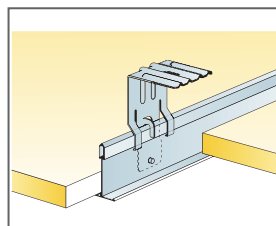
Arrangement of clips

Suspension with Connect Direct Bracket

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

Live load/load bearing capacity

Ecophon Hygiene Meditec™ E

Ecophon Hygiene Meditec™ E has a recessed visible grid and a tegular edge design, suitable for dry areas where disinfection and/or cleaning is required on a regular basis. The surface is resistant to mould and bacteria growth and to common detergents and disinfectants.
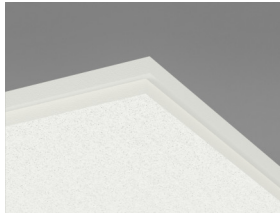

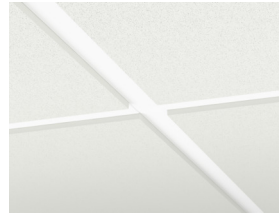Notaufnahme UKSH, Lübeck, Germany

SYSTEM RANGE
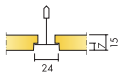
Size, mm	600x600	1200x600
T24	•	•
Thickness	15	15
Inst. Diagr.	M256	M256

Hygiene Meditec E tile

Hygiene Meditec E C1 section with Connect Universal clip
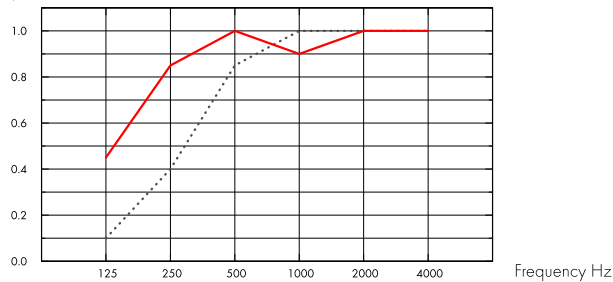

Hygiene Meditec E C1 system

Acoustic

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

α_p, Practical sound absorption coefficient

···· Hygiene Meditec E 15 mm, 60 mm o.d.s.

— Hygiene Meditec E 15 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		
15	60	0.10	0.40	0.85	1.00	1.00	1.00	0.70	C
15	200	0.45	0.85	1.00	0.90	1.00	1.00	1.00	A

THK mm	o.d.s. mm	NRC	SAA
15	60	0.90	0.87
15	400	0.85	0.89

Indoor Air Quality

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

Environmental Footprint

Kg CO₂ equiv/m²: 2,4 From family EPD in conformity with ISO 14025 / EN 15804

Circularity

Minimum post-consumer recycled content	43%
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

Can withstand use of hydrogen peroxide vapour.

Mould and Bacterial Resistance

Standard/Method	
ISO 846 A	0
ISO 846 C	0

Surface Endurance

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

Chemical resistance/Disinfection

Chemical	Active Substance	Concentration
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.

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 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.

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 2,5 kg/m².

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.

INSTALLATION DIAGRAM (M256) FOR ECOPHON HYGIENE MEDITEC™ E

© Ecophon Group

QUANTITY SPECIFICATION (EXCL. WASTAGE)

		Size, mm	
		600x600	**1200x600**
1	Hygiene Meditec E	2,8/m²	1,4/m²
2	Connect T24 Main Runner, installed at 1200 mm centres (max distance from wall 300 mm)	0,9m/m²	0,9m/m²
3	Connect T24 Cross Tee, L=1200 mm, installed at 600 mm centres	1,7m/m²	1,7m/m²
4	Connect T24 Cross Tee, L=600 mm	0,9m/m²	-
5	Connect Adjustable Hanger, installed at 1200 mm centres (max. distance from wall 600 mm)	0,7/m²	0,7/m²
6	Connect Hanger Clip (not to be used in swimming hall environments)	0,7/m²	0,7/m²
7	Connect Universal Clip 0083	11/m²	7/m²
8	Alt. Connect Angle Trim, fixed c300	as required	as required
9	Alt. Connect Shadow-line Trim, fixed c300	as required	as required
10	Connect Inspection Hatch	as required	as required
11	For direct installation: Connect Direct Bracket, installed at 1200 mm centres	0,7/m²	0,7/m²
12	Connect E-plug 0158/0154 (for Connect Shadow-line Trim)	as required	as required
	Δ Min. overall depth of system, with adjustable hanger and clip: 160 mm, with direct fixing wituout clip: 60 mm.	-	-
	δ Min. demounting depth: With clip: 160 mm. Without clip: 110 mm.	-	-
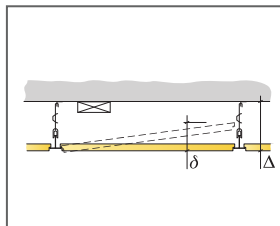
See Quantity Specification
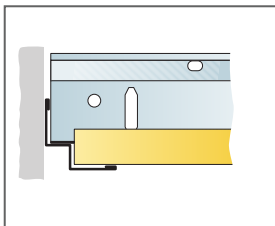
Straight cut and T-profile on top of Connect Shadow-line Trim
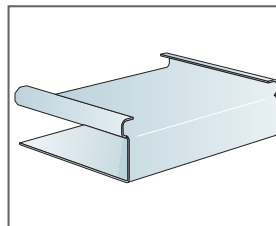
Connect E-plug

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

Live load/load bearing capacity

Ecophon Hygiene Protec™ A

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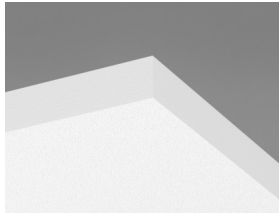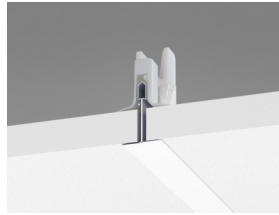

Unilever Polska,, Poland

SYSTEM RANGE
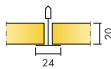
Size, mm	600x600	1200x600
T24	•	•
Thickness	20	20
Inst. Diagr.	M257	M257

Hygiene Protec A tile

Hygiene Protec A C1 section with Connect Hygiene clip 20
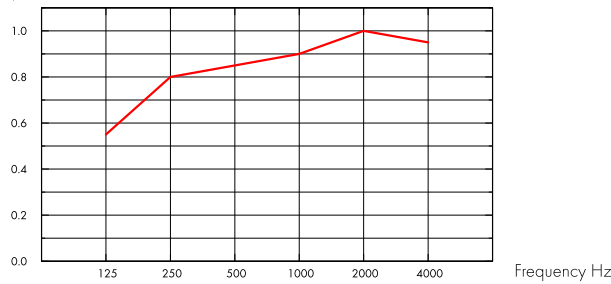

Hygiene Protec A system

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.

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	0.55	0.80	0.85	0.90	1.00	0.95	0.90	A

THK mm	o.d.s. mm	NRC	SAA
20	200	0.90	0.89
20	400	0.85	0.84

Indoor Air Quality

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

Environmental Footprint

Kg CO_2 equiv/m²: 2,21 From family EPD in conformity with ISO 14025 / EN 15804

Circularity

Minimum post-consumer recycled content	44%
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

Can withstand use of hydrogen peroxide vapour.

Surface Endurance

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

Chemical resistance/Disinfection

Chemical	Active Substance	Concentration
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

Standard	Standard/Method	Class
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

System weight

The weight of the system (including suspension grid) should be approximately 3-4 kg/m².

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.

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.

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.

© Ecophon Group

QUANTITY SPECIFICATION (EXCL. WASTAGE)

		Size, mm	
		600x600	**1200x600**
1	Hygiene Protec A	2,8/m²	1,4/m²
2	Connect T24 Main Runner, installed at 1200 mm centres (max distance from wall 300 mm)	0,9m/m²	0,9m/m²
3	Connect T24 Cross Tee, L=1200 mm, installed at 600 mm centres	1,7m/m²	1,7m/m²
4	Connect T24 Cross Tee, L=600 mm	0,9m/m²	-
5	Connect Adjustable Hanger, installed at 1200 mm centres (max. distance from wall 600 mm)	0,7/m²	0,7/m²
6	Connect Hanger Clip (not to be used in swimming hall environments)	0,7/m²	0,7/m²
7	Connect Channel Trim, fixed c300	as required	as required
8	Connect Hygiene Clip 20 0172	11/m²	7/m²
9	Connect Inspection Hatch	as required	as required
	Δ Min. overall depth of system: 150 mm	-	-
	δ Min. demounting depth: 150 mm	-	-
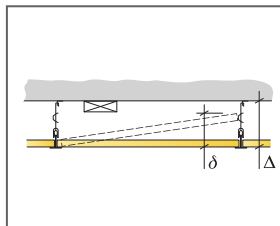
See Quantity Specification
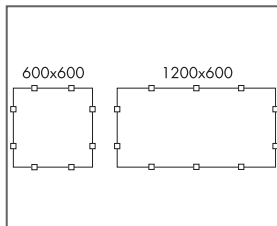
Arrangement of clips
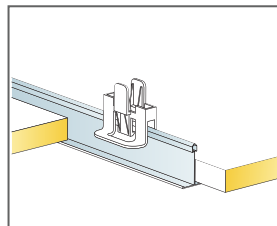
Clips for keeping tiles in position

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

Live load/load bearing capacity

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.
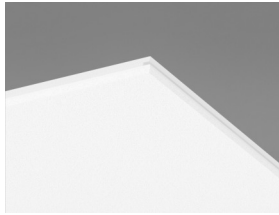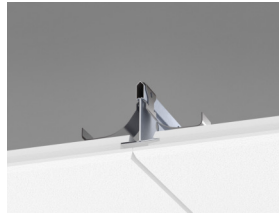

Pharma Labor-Vorbereitung, Greven, Germany

SYSTEM RANGE
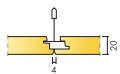
Size, mm	600x600	1200x600
T24	•	•
Thickness	20	20
Inst. Diagr.	M468	M468

Hygiene Protec Ds tile

Hygiene Protec Ds C1 section with Connect Hold down clip Ds

Sealed junction with wall
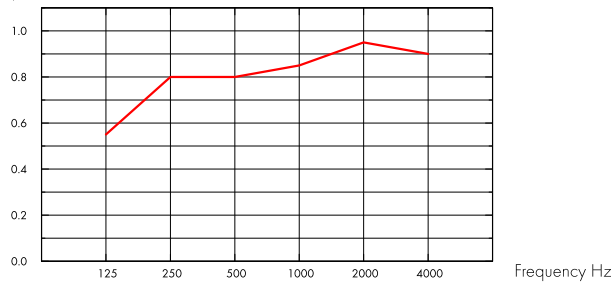

Hygiene Protec Ds C1 system

Acoustic

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

α_p, Practical sound absorption coefficient

— Hygiene Protec Ds 20 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	0.55	0.80	0.80	0.85	0.95	0.90	0.85	B

Indoor Air Quality

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

Environmental Footprint

Kg CO_2 equiv/m²: 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

Can withstand use of hydrogen peroxide vapour.

Surface Endurance

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

Chemical resistance/Disinfection

Chemical	Active Substance	Concentration
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

Standard	Standard/Method	Class
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/m².

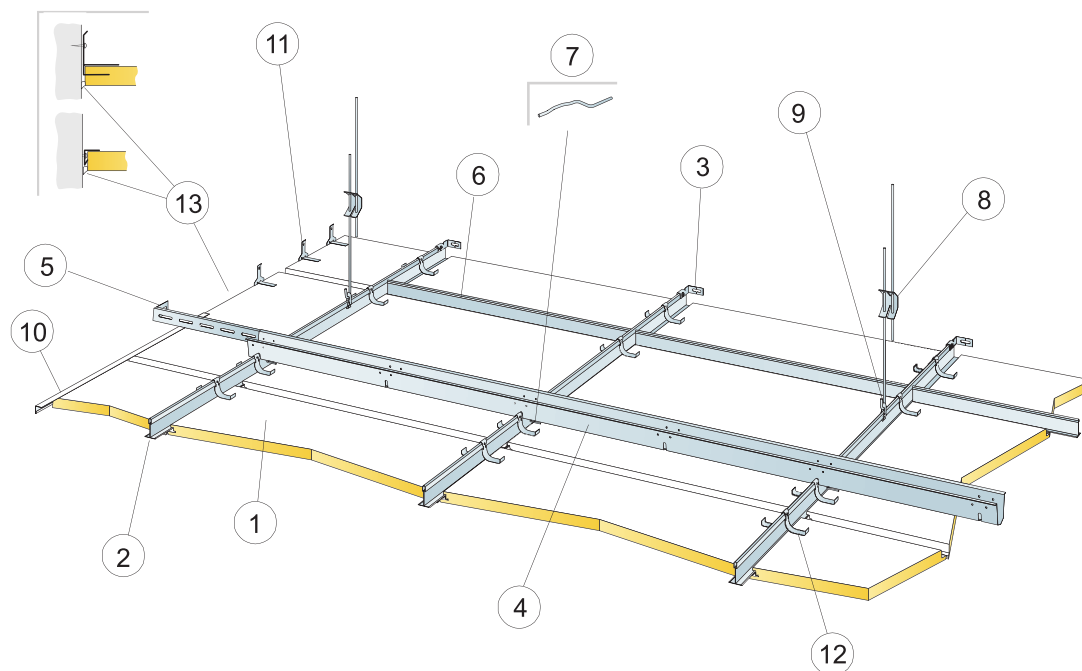## Mechanical properties

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.

© Ecophon Group

QUANTITY SPECIFICATION (EXCL. WASTAGE)

		Size, mm	
		600x600	**1200x600**
1	Hygiene Protec Ds	2,8/m²	1,4/m²
2	Connect T24 Main Runner HD, installed at 600 mm centres	1,7m/m²	1,7m/m²
3	Connect Wall Bracket for T-profiles	1/suspended row of Main runner	
4	Connect Space Bar, installed at 1500 mm centres (max. distance from wall 300 mm)	0,7m/m²	0,7m/m²
5	Connect Wall Bracket, L=700 mm, for Connect Space Bar	1/row of Space bar	
6	Connect T24 Cross Tee, L=600 mm	2/row of Main runner	
7	Connect Space Bar Winch, installed one per joint Connect Main Runner/Connect Space Bar	1,4/m²	1,4/m²
8	Connect Adjustable Hanger, installed at 1200 mm centres (max. distance from wall 600 mm)	0,7/m²	0,7/m²
9	Connect Hanger Clip (not to be used in swimming hall environments)	0,7/m²	0,7/m²
10	Alt. Connect Frieze Trim, fixed c300 mm	as required	as required
11	Connect Frieze Bracket 0043, 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
12	Connect Hold Down Clip Ds	2/tile, 50-100 mm from corners	3/tile, 50-100 mm from corners
13	Joint sealant (not supplied by Ecophon)	as required	as required
	Δ Min. overall depth of system: 170 mm	-	-
	δ Min. demounting depth: 30 mm	-	-
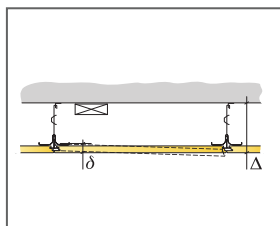
See Quantity Specification
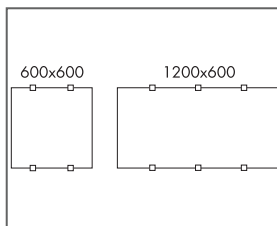
Arrangement of clips
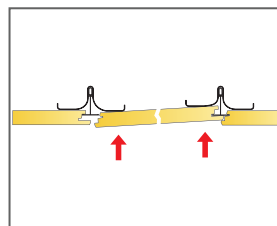
Demounting of tile from below

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

Live load/load bearing capacity

Ecophon Hygiene Protec™ Air A

Ecophon Hygiene Protec™ A has an exposed grid and are particle repellent for clean rooms, where disinfection and/or cleaning is required on a regular basis. Suitable for areas requiring air-pressure control. They are resistant to mould and bacteria growth and withstand HPV cleaning.
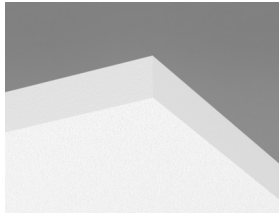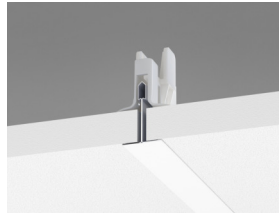

Beiersdorf, Hamburg, Germany

SYSTEM RANGE
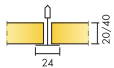
Size, mm	600x600	600x600	1200x600	1200x600
T24	•	•	•	•
Thickness	20	40	20	40
Inst. Diagr.	M469	M469	M469	M469

Hygiene Protec Air A tile

Hygiene Protec Air A C1 section with Connect Hygiene Clip 20

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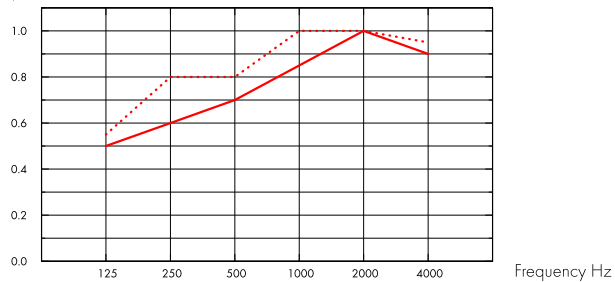
— Hygiene Protec Air A 20 mm, 200 mm o.d.s.

···· Hygiene Protec Air 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	0.60	0.70	0.85	1.00	0.90	0.80	B
40	200	0.55	0.80	0.80	1.00	1.00	0.95	0.90	A

Indoor Air Quality

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

Environmental Footprint

Kg CO₂ equiv/m²: 2,21 From family EPD in conformity with ISO 14025 / EN 15804

Circularity

Minimum post-consumer recycled content	38%
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

Can withstand use of hydrogen peroxide vapour.

Surface Endurance

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

Chemical resistance/Disinfection

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

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

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 3
NF S 90-351	Microbiological class	M1/area 4
NF S 90-351	Particle elimination kinetics	CP(0,5) 1

Air permeability

When mounted according to installation diagram M469:
Hygiene Protec Air A: 20 mm: 0,3 m³/(h x m² x Pa)
Hygiene Protec Air A: 40 mm: 0,2 m³/(h x m² x Pa)

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.

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/m² for 20mm thickness and 4.5 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.

© Ecophon Group

QUANTITY SPECIFICATION (EXCL. WASTAGE)

		Size, mm			
		600x600	**600x600**	**1200x600**	**1200x600**
1	Hygiene Protec Air A	2,8/m²	2,8/m²	1,4/m²	1,4/m²
2	Connect T24 Main Runner, installed at 1200 mm centres (max distance from wall 300 mm)	0,9m/m²	0,9m/m²	0,9m/m²	0,9m/m²
3	Connect T24 Cross Tee, 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, L=600 mm	0,9m/m²	0,9m/m²	-	-
5	Connect Adjustable Hanger, installed at 1200 mm centres (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 3254	11/m²	11/m²	7/m²	7/m²
10	Connect Channel Trim, fixed c300 (for 20 mm thickness)	as required	as required	as required	as required
11	Connect Channel Trim, fixed c300 (for 40 mm thickness)	as required	as required	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
600x600	50	160
1200x600	50	160
1200x600	50	160

Live load/load bearing capacity

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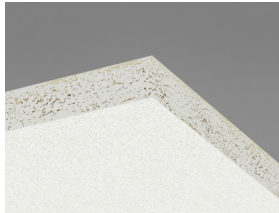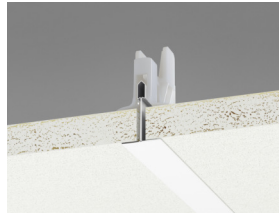
SYSTEM RANGE
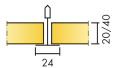
Size, mm	600x600	600x600	1200x600	1200x600
T24	•	•	•	•
Thickness	20	40	20	40
Inst. Diagr.	M395C3, M266C4	M395C3, M266C4	M395C3, M266C4	M395C3, M266C4

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
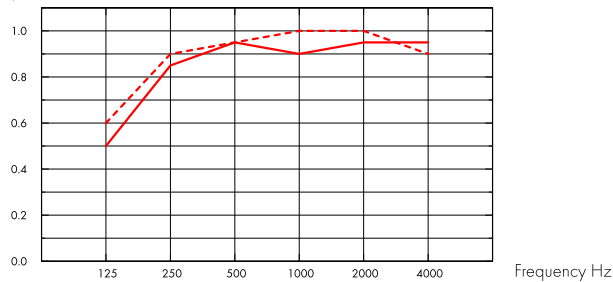
— Hygiene Performance A 20 mm, 200 mm o.d.s.

--- 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 vapour.

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
Ethanol	Ethanol	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 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.

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.

© Ecophon Group

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 9102, 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 9103, 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 0172	11/m²	11/m²	7/m²	7/m²
9	Connect Hygiene Clip 40 3254	11/m²	11/m²	7/m²	7/m²
10	Connect Channel Trim C3 (for 20 mm thickness)	as required	as required	as required	as required
11	Connect Channel Trim C3 3465 (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	-	-	-	-

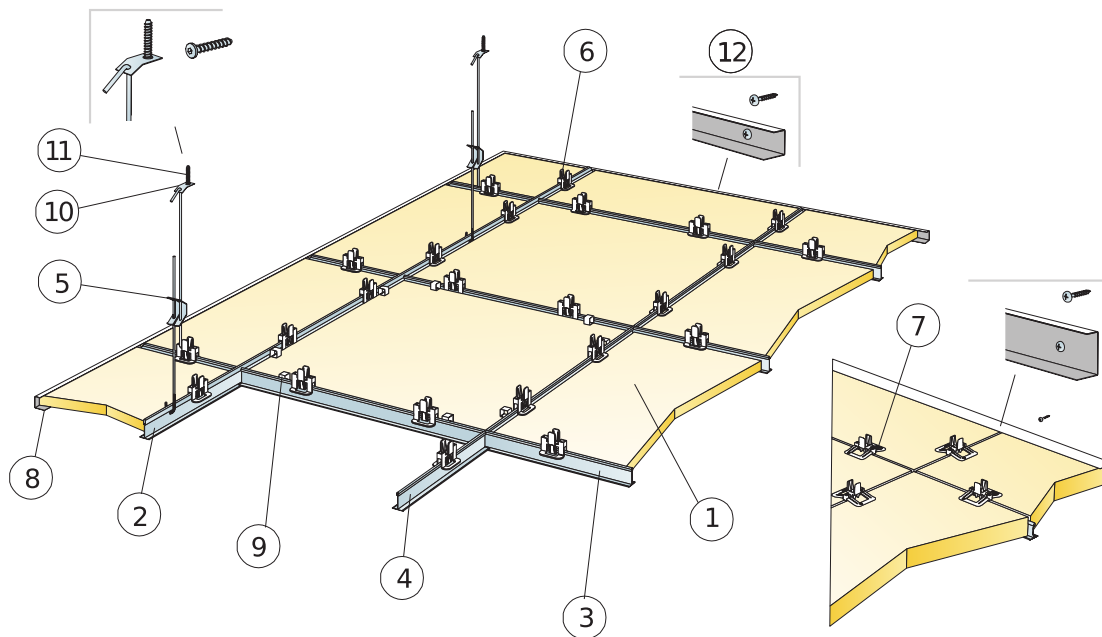See Quantity Specification

Arrangement of clips

600x600   1200x600

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

© Ecophon Group
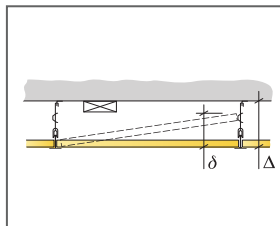
QUANTITY SPECIFICATION (EXCL. WASTAGE)

		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
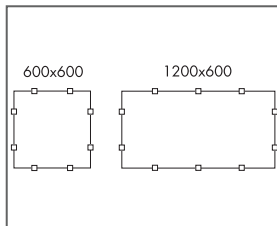
Arrangement of clips
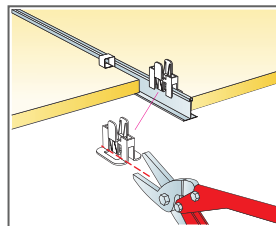
Cutting of Connect Hygiene Clip 20 at the inspection tile

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

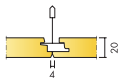Live load/load bearing capacity

Ecophon Hygiene Performance™ Ds

Ecophon Hygiene Performance™ Ds is a suspended ceiling with a concealed grid, where individual tiles must be easily demountable. Suitable for swimming pool areas, it's compatible in areas with high humidity, corrosivity and occasional direct water.
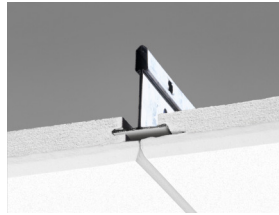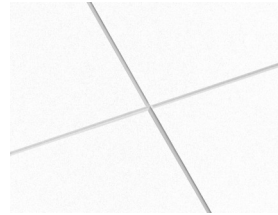

SYSTEM RANGE

Size, mm	600x600	1200x600
T24	•	•
Thickness	20	20
Inst. Diagr.	M439C4	M439C4
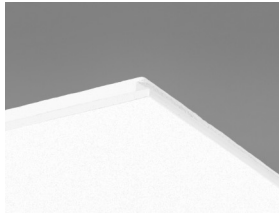
Performance Ds tile

Section of Performance Ds system with Connect T24 Main Runner C4

Performance Ds system

The individual tiles are easily demountable

Acoustic

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

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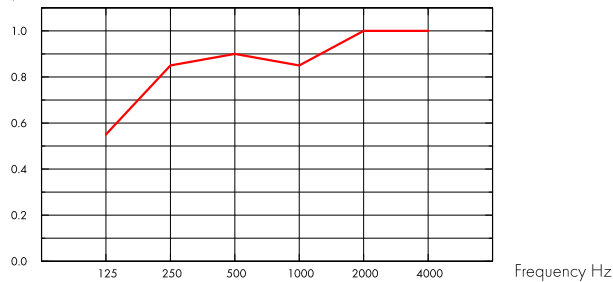
— Hygiene Performance Ds 20 mm, 200 mm o.d.s.

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	0.55	0.85	0.90	0.85	1.00	1.00	0.90	A

Indoor Air Quality

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

Environmental Footprint

Kg CO₂ equiv/m²: 4,5 From family EPD in conformity with ISO 14025 / EN 15804

Circularity

Minimum post-consumer recycled content	54%
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

Steam cleaning. Can withstand use of hydrogen peroxide vapour.

Surface Endurance

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

Mould and Bacterial Resistance

Standard/Method	
ISO 846 A	0
ISO 846 C	0

Chemical resistance/Disinfection

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

Chemical	Active Substance	Concentration
Actichlor plus	NaDCC (Sodium Dichloroisocyanurate)	1%
LifeClean	Chlorine dioxide	Undiluted
Ethanol	Ethanol	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%

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.

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.

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.

QUANTITY SPECIFICATION (EXCL. WASTAGE)

		Size, mm	
		600x600	**1200x600**
1	Hygiene Performance Ds	2,8/m²	1,4/m²
2	Connect T24 Main Runner C4, installed at 600 mm centres	1,7m/m²	1,7m/m²
3	Connect Wall Bracket C4 for T-profiles C4	1/suspended row of Main runner	
4	Connect Space Bar C4, installed at 1500 mm centres (max. distance from wall 300 mm) for winch	0,7m/m²	0,7m/m²
5	Connect Wall Bracket C4, L=700 mm, for Connect Space Bar	1/row of Space bar	
6	Connect T24 Cross Tee C4, L=600 mm	2/row of Main runner	
7	Connect Space Bar Winch C4, installed one per joint Connect Main Runner/Space Bar	1,4/m²	1,4/m²
8	C4 screw for wall brackets(included in products)	-	-
9	Connect Adjustable Hanger C4, installed at 1200 mm centres (max. distance from wall 600 mm)	0,7/m²	0,7/m²
10	Connect Support Clip Dg20 C4	1pc/300-400 mm on every cut perimeter tile with only 1 supporting edge	
11	Connect Angle Trim 15/22 C4, fixed at 300 mm centres	as required	as required
12	Connect Fixing Plate C4	0,7/m²	0,7/m²
13	Connect Anchor Screw C4	0,7/m²	0,7/m²
14	Connect Installation Screw C4	3,4/lm Channel trim C4	
Δ	Min. overall depth of system: 385 mm	-	-
δ	Min. demounting depth: 30 mm	-	-
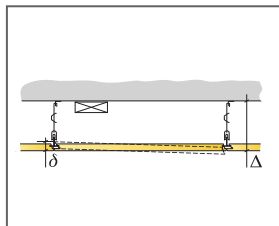
See Quantity Specification
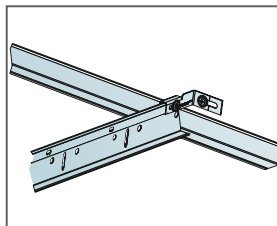
Secured Connect Main Runner C4 at wall with Connect Wall Bracket C4
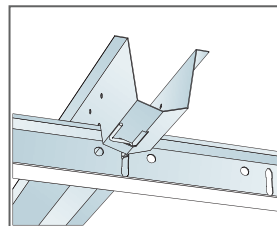
Connection between profiles and Connect Space Bar Winch C4

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

Live load/load bearing capacity

Ecophon Hygiene Performance™ Plus A

Ecophon Hygiene Performance™ Plus A has an exposed grid with fully sealed robust Hygiene Performance™ Plus A tiles and suitable for humid areas. The ceiling withstands advanced cleaning, such as steam and high/low pressure washing on a regular basis. The surface is resistant to common detergents and disinfectants.
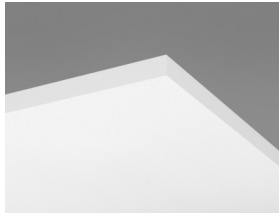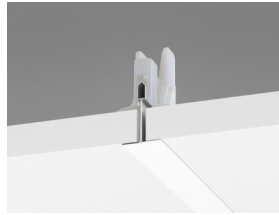

Oatly, Landskrona, Sweden

SYSTEM RANGE
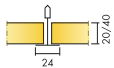
Size, mm	600x600	600x600	1200x600	1200x600
T24	•	•	•	•
Thickness	20	40	20	40
Inst. Diagr.	M466	M466	M466	M466

Hygiene Performance Plus A tile

Hygiene Performance Plus A C3 section with Connect Hygiene Clip 20

Hygiene Performance Plus A system

Acoustic

Sound Absorption:

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

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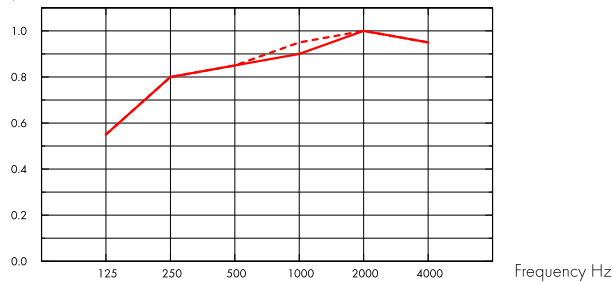
— Hygiene Performance Plus A 20 mm, 200 mm o.d.s.

--- Hygiene Performance Plus 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	0.55	0.80	0.85	0.90	1.00	0.95	0.90	A
40	200	0.55	0.80	0.85	0.95	1.00	0.95	0.95	A

Indoor Air Quality

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

Environmental Footprint

Kg CO_2 equiv/m²: 4,2 From family EPD in conformity with ISO 14025 / EN 15804

Circularity

Minimum post-consumer recycled content	44%
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 vapour.

Surface Endurance

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

Chemical resistance/Disinfection

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

Chemical	Active Substance	Concentration
Actichlor plus	NaDCC (Sodium Dichloroisocyanurate)	1%
LifeClean	Chlorine dioxide	Undiluted
Ethanol	Ethanol	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%

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 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.

System weight

The weight of the system (including suspension grid) should be approximately 3,5 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.
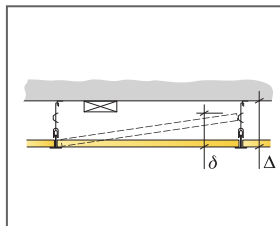
INSTALLATION DIAGRAM (M466) FOR ECOPHON HYGIENE PERFORMANCE™ PLUS A C3
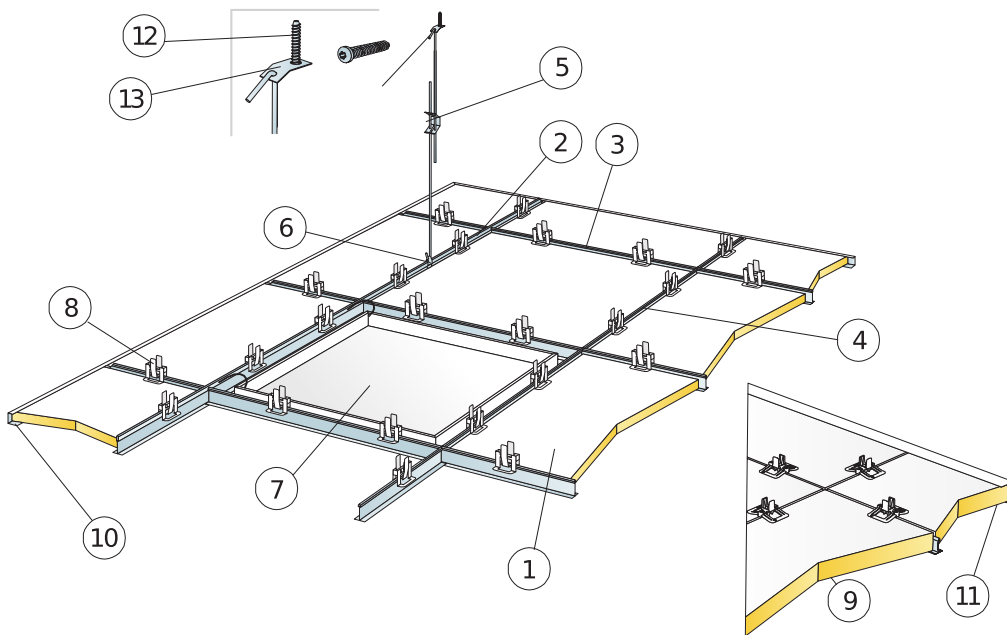
© Ecophon Group

QUANTITY SPECIFICATION (EXCL. WASTAGE)

		Size, mm			
		600x600	**600x600**	**1200x600**	**1200x600**
1	Hygiene Performance Plus 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 9102, 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 9103, 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 (for 20 mm thickness)	as required	as required	as required	as required
11	Connect Channel Trim C3 3465 (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

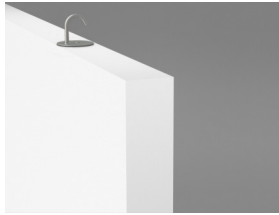# Ecophon Hygiene Performance™ Baffle

Ecophon Hygiene Performance™ Baffle is an easy to clean, sound absorbing system with vertical baffles suitable for humid areas. The baffles withstand advanced cleaning, such as steam and high/low pressure washing on a regular basis.
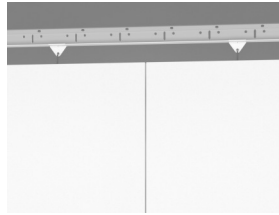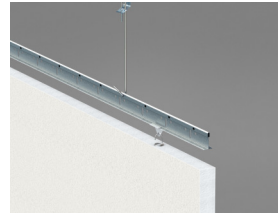

SYSTEM RANGE

Size, mm	
	1200x600
T24	•
Thickness	50
Inst. Diagr.	M494C4, M492C3, M493C3

Solo Baffle/Hook
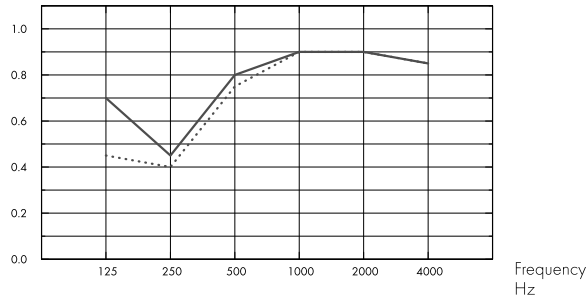

Hygiene Performance Baffle C4

Hygiene Performance Baffle C4 installation

Acoustic

Sound Absorption:

Test results according to EN ISO 354:2003 NOTE: Results shown are not comparable with results according to older versions of this standard due to discrepancies in test method. 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

···· Performance Baffle oriented in rows, c600 mm, with ~1,4 baffles/m2 ceiling area, 600 mm o.d.s.

— Performance Baffle oriented in rectangels, with ~1,3 baffles/m2 ceiling area, 600 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		
in rows	50	600	0.45	0.40	0.75	0.90	0.90	0.85	0.70	C
in rectangles	50	600	0.70	0.45	0.80	0.90	0.90	0.85	0.75	C

Indoor Air Quality

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

Environmental Footprint

Kg CO_2 equiv/m²: 8,3 From family EPD in conformity with ISO 14025 / EN 15804

Circularity

Minimum post-consumer recycled content	57%
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

Low pressure cleaning with water and steam cleaning. Products, once demounted, can be high pressure cleaned according to Ecophon high pressure cleaning protocol. Can withstand use of hydrogen peroxide vapour.

Surface Endurance

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

Chemical resistance/Disinfection

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

Chemical	Active Substance	Concentration
Actichlor plus	NaDCC (Sodium Dichloroisocyanurate)	1%
LifeClean	Chlorine dioxide	Undiluted
Ethanol	Ethanol	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%

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.

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 5 kg/m².

Mechanical properties

Please observe that vibrations, airflow and other types of mechanical impact can affect the mechanical properties of the fixings.

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.
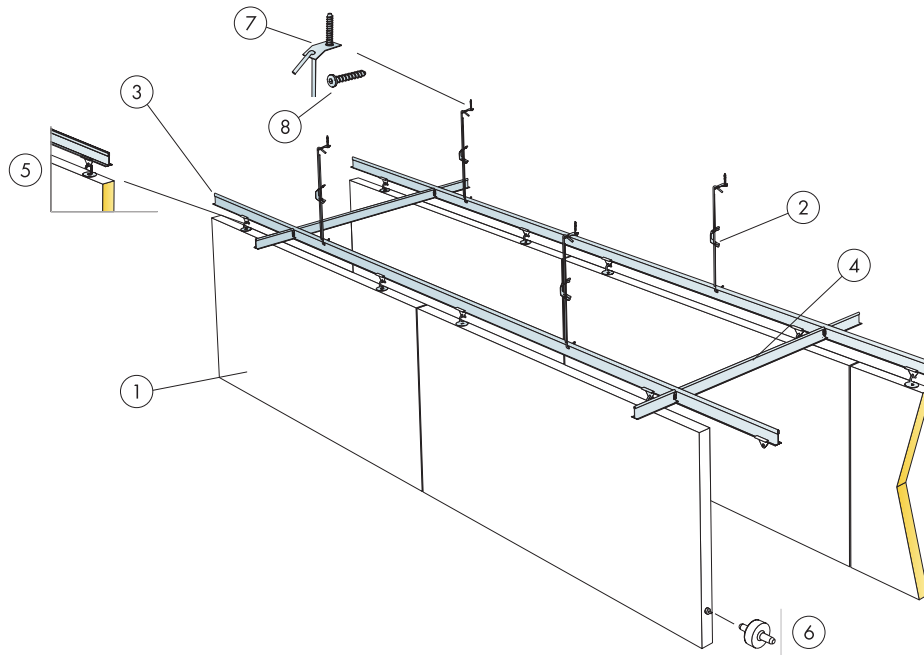
© Ecophon Group

QUANTITY SPECIFICATION (EXCL. WASTAGE)

		Size, mm
		1200x600
1	Hygiene Performance Baffle	1,4/m²
2	Connect Adjustable Hanger C4 c1200	1,4/m²
3	Connect T24 Main Runner C4, installed at 600 mm centres	1,7m/m²
4	Connect T24 Cross Tee C4, L=600 mm, installed at 1800 mm centres	0,6m/m²
5	Connect Baffle Clip C4	2,8/m²
6	Connect Guiding pin, installed at 1200 mm centres	2,8/m²
7	Connect Fixing Plate C4	1,4/m²
8	Connect Anchor Screw C4	1,4/m²

Installation in rows

Detail of suspension

Suspension with Connect Adjustable Hanger C4

© Ecophon Group

QUANTITY SPECIFICATION (EXCL. WASTAGE)

		Size, mm
		1200x600
1	Hygiene Performance Baffle	1,4/m²
2	Connect T24 Main Runner C3, installed at 600 mm centres	1,7m/m²
3	Connect T24 Cross Tee C3 9103, L=600 mm, installed at 1800 mm centres	0,6m/m²
4	Connect Adjustable Hanger C3	1,4/m²
5	Connect Hanger Clip	1,4/m²
6	Connect Baffle Clip C3	2,8/m²

Installation in rows

Detail of suspension

Suspension with adjustable hanger and clip

© Ecophon Group

QUANTITY SPECIFICATION (EXCL. WASTAGE)

		Size, mm
		1200x600
1	Hygiene Performance Baffle	1,3/m²
2	Connect T24 Main Runner C3, installed at 1250 mm centres	0,8m/m²
3	Connect T24 Cross Tee C3, L=1250 mm, installed at 1300 mm centres	0,8m/m²
4	Connect Adjustable Hanger C3	0,7/m²
5	Connect Hanger Clip	0,7/m²
6	Connect Baffle Clip C3	2,5/m²

Installation in rectangles

Detail of suspension

Suspension with adjustable hanger and clip

Ecophon Hygiene Performance™ Wall

Ecophon Hygiene Performance™ Wall is an easy to clean, sound absorbing wall panel system suitable for humid areas. The panels withstand advanced cleaning, such as steam and high/low pressure washing on a regular basis.
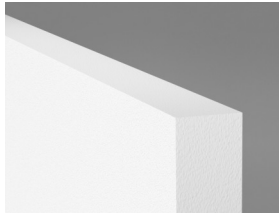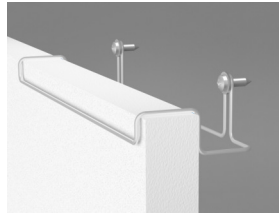

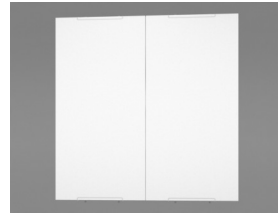TAYS kitchen, Tampere, Finland

SYSTEM RANGE
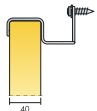
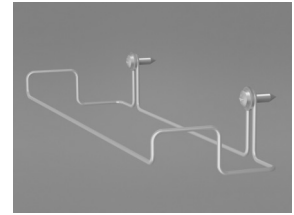| Size, mm	
	1200x600
Special	•
Thickness	40
Inst. Diagr.	M467

Hygiene Performance Wall

Connect Wall Fixing C3

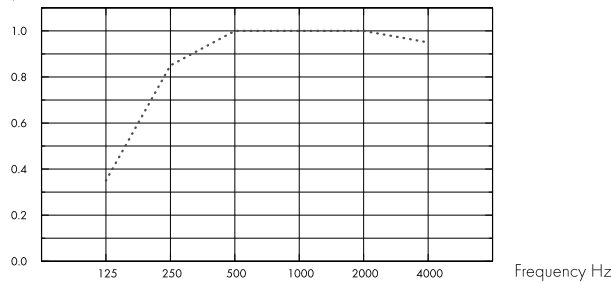Hygiene Performance Wall C3 system

Connect Wall Fixing C3

Acoustic

Sound Absorption:

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

α_p, Practical sound absorption coefficient

···· Hygiene Performance Wall, 80 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		
40	80	0.35	0.85	1.00	1.00	1.00	0.95	1.00	A

Indoor Air Quality

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

Environmental Footprint

Kg CO₂ equiv/m²: 7,1 From family EPD in conformity with ISO 14025 / EN 15804

Circularity

Minimum post-consumer recycled content	54%
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 vapour.

Surface Endurance

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

Chemical resistance/Disinfection

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

Chemical	Active Substance	Concentration
Actichlor plus	NaDCC (Sodium Dichloroisocyanurate)	1%
LifeClean	Chlorine dioxide	Undiluted
Ethanol	Ethanol	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%

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.

Installation

Installed according to installation diagrams, installation guides and drawing aid. For information regarding minimum overall depth of system see quantity specification.
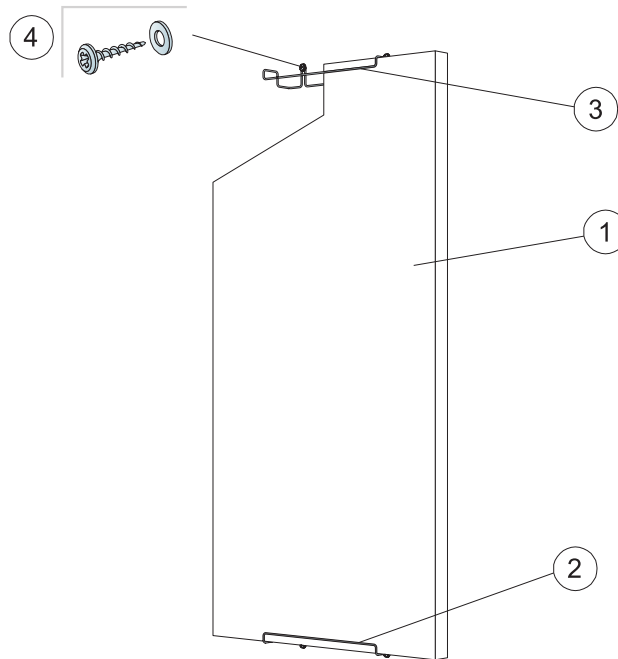
System weight

The weight of the system (including profile system) should be approximately 3 kg/pcs.

Mechanical properties

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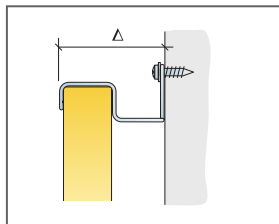
© Ecophon Group

QUANTITY SPECIFICATION (EXCL. WASTAGE)

		Size, mm
		1200x600
1	Hygiene Performance Wall	1,4/m²
2	Connect Wall Fixing C3, vertical installation	2/panel
3	Connect Wall Fixing C3, horisontal installation	4/panel
4	Wall screw, A2 material (not supplied by Ecophon)	2/wall fixing
	Δ Min. overall depth of system: 90 mm	-

See Quantity Specification
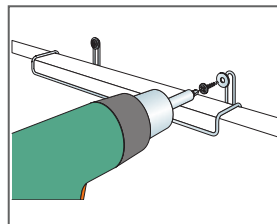
Installation with wall screw in stainless steel (A2) material
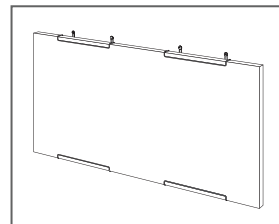
Horisontal installation of Performance Wall C3

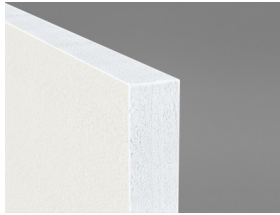# Ecophon Hygiene Performance™ Care Wall

Ecophon Hygiene Performance™ Care Wall is an easy to clean, sound absorbing wall panel system for healthcare applications or other areas with elevated hygiene standards. The surface is resistant to common detergents and disinfectants. The panels withstand steam cleaning.

Healthcare launch 2019, , Sweden

SYSTEM RANGE

Size, mm	
	2700x1200
Thinline	•
Thickness	40
Inst. Diagr.	M525

Hygiene Performance Care Wall

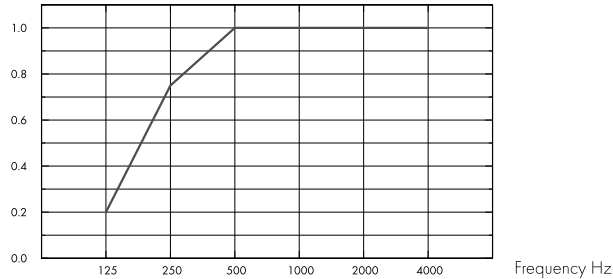Hygiene Performance Care Wall system with Connect Thinline profiles

Acoustic

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

α_p, Practical sound absorption coefficient

Frequency Hz

— Hygiene Performance Care Wall 40 mm, 50 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		
40	50	0.20	0.75	1.00	1.00	1.00	1.00	1.00	A

Indoor Air Quality

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

Circularity

Minimum post-consumer recycled content	58%
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

Steam cleaning. Can withstand use of hydrogen peroxide vapour.

Surface Endurance

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

Chemical resistance/Disinfection

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

Chemical	Active Substance	Concentration
Actichlor plus	NaDCC (Sodium Dichloroisocyanurate)	1%
LifeClean	Chlorine dioxide	Undiluted
Ethanol	Ethanol	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%

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 not demountable except in selected installation diagrams. See quantity specification for more information.

Installation

Installed according to installation diagrams, installation guides and drawing aid. For information regarding minimum overall depth of system see quantity specification.

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.

INSTALLATION DIAGRAM (M525) FOR HYGIENE PERFORMANCE™ CARE WALL INSTALLATION WITH CONNECT THINLINE PROFILE.
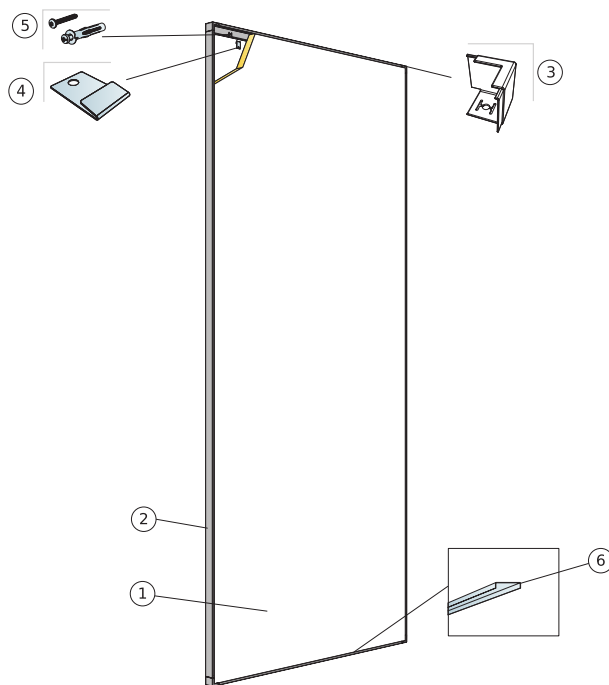
© Ecophon Group

QUANTITY SPECIFICATION (EXCL. WASTAGE)

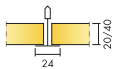|		Size, mm
		2700x1200
1	Hygiene Performance Care Wall	0,31/m²
2	Connect Thinline Profile, L=2644 mm	as required
3	Connect Thinline Corner	as required
4	Connect Thinline Locking Clip	as required
5	Installation screw, installed at 200 mm centres (select fastener according to wall material)	as required
6	Connect Thinline Space Bar	as required
	Δ Overall depth of system: 45 mm	-
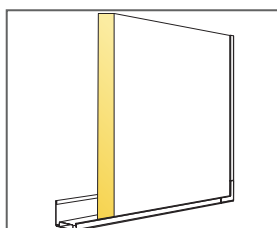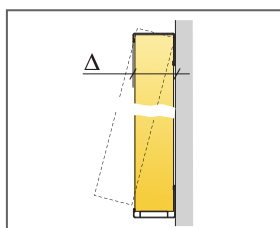
Detail of panel with Thinline frame

Ecophon Hygiene Advance™ A

Ecophon Hygiene Advance™ A is a sound-absorbing ceiling with an exposed grid that sustains daily advanced cleaning and disinfection with strong chemicals. Suitable for the most demanding conditions. Available with corrosion class C3 grids for humid areas and C4 grids for constantly wet areas. Hygiene Advance Technical tiles should be used where there are penetrations in the ceiling.
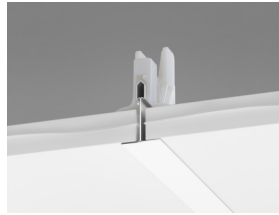

SYSTEM RANGE

Size, mm	600x600	600x600	1200x600	1200x600
T24	•	•	•	•
Thickness	20	40	20	40
Inst. Diagr.	M246C4, M252C3	M246C4, M252C3	M246C4, M252C3	M246C4, M252C3
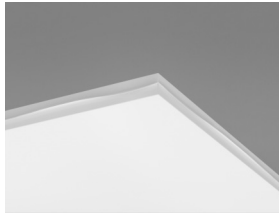
Hygiene Advance A tile

Hygiene Advance A C4 section with Connect Hygiene clip 20
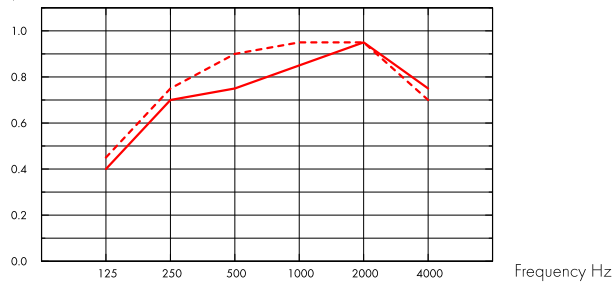

Hygiene Advance A C4 system

Acoustic

Hygiene Advance Technical tile has no performance determined (n.p.d.) for sound absorption.

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 Advance A 20 mm, 200 mm o.d.s.

--- Hygiene Advance 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	0.40	0.70	0.75	0.85	0.95	0.75	0.85	B
40	200	0.45	0.75	0.90	0.95	0.95	0.70	0.90	A

THK mm	o.d.s. mm	NRC	SAA
20	200	0.80	0.76
20	400	0.80	0.79
40	200	0.75	0.76
40	400	0.75	0.76

Indoor Air Quality

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

Circularity

Minimum post-consumer recycled content	59%
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 141, nearest NCS colour sample S 1000-N, 73% light reflectance. Please note: There is a small difference in gloss and appearance between the Hygiene Advance tile and the Hygiene Advance technical tile.

Cleanability

Daily dusting, vacuum cleaning and wet wiping.

Advanced Cleanability

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

Chemical resistance/Disinfection

Chemical	Concentration
Formalin	37%
Ammoniac	25%
Hydrogen peroxide	30%
Sulfuric acid	5%
Phosphoric acid	30%
Peracetic acid	15%
Hydrochloric acid	5%
Isopropanol	100%
Sodium hydroxide	5%
Sodium hypochlorite	5%

Tested according to ISO 2812-1 and classified according to ISO 4628-1 with excellent result for the following chemicals.

Mould and Bacterial Resistance

Standard/Method	
ISO 846 A	1
ISO 846 C	0

Clean Room

Standard	Standard/Method	Class
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

Air permeability

When mounted according to installation diagram M252:
Hygiene Advance A: 20 mm: 1,1 m³/(h x m² x Pa)
Hygiene Advance A: 40 mm: 0,3 m³/(h x m² x Pa)

Accessibility

The tiles are demountable. Minimum demounting depth according to installation diagram. The tiles are secured using Connect Hygiene Clip to allow for effective cleaning. The clips are easily removable from above the ceiling. Connect Democlips 20 C4 are avalible to simplify access to the ceiling void.

Installation

Installed according to installation diagrams, installation guides and drawing aid. Cut tiles must be sealed with Connect Hygiene Advance Tape. Penetrations must be sealed with a suitable sealant.

System weight

The weight of the system (including suspension grid) should be approximately 3 kg/m² for 20 mm thickness and 4,5 kg/m² for 40 mm 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.

© Ecophon Group

QUANTITY SPECIFICATION (EXCL. WASTAGE)

		Size, mm			
		600x600	600x600	1200x600	1200x600
1	Hygiene Advance 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 Fixing Plate C4	0,7/m²	0,7/m²	0,7/m²	0,7/m²
10	Connect Anchor Screw C4	0,7/m²	0,7/m²	0,7/m²	0,7/m²
11	Connect Installation Screw C4	3,4/lm Channel trim C4			
12	Hygiene Advance Technical Tile	as required	as required	as required	as required
13	Joint sealant (not supplied by Ecophon)	as required	as required	as required	as required
14	Connect Hygiene Advance Tape	as required	as required	as required	as required
15	Connect Demo Clip 20 C4, (where access is needed)	as required	as required	as required	as required
	Δ Min. overall depth of system: 150 mm	-	-	-	-
	δ Min. demounting depth: 150 mm	-	-	-	-
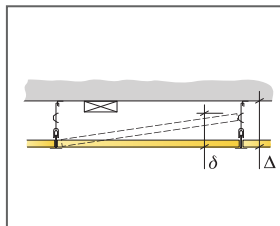
See Quantity Specification
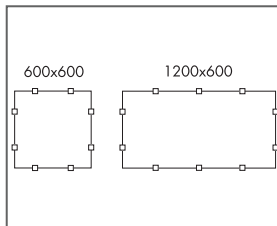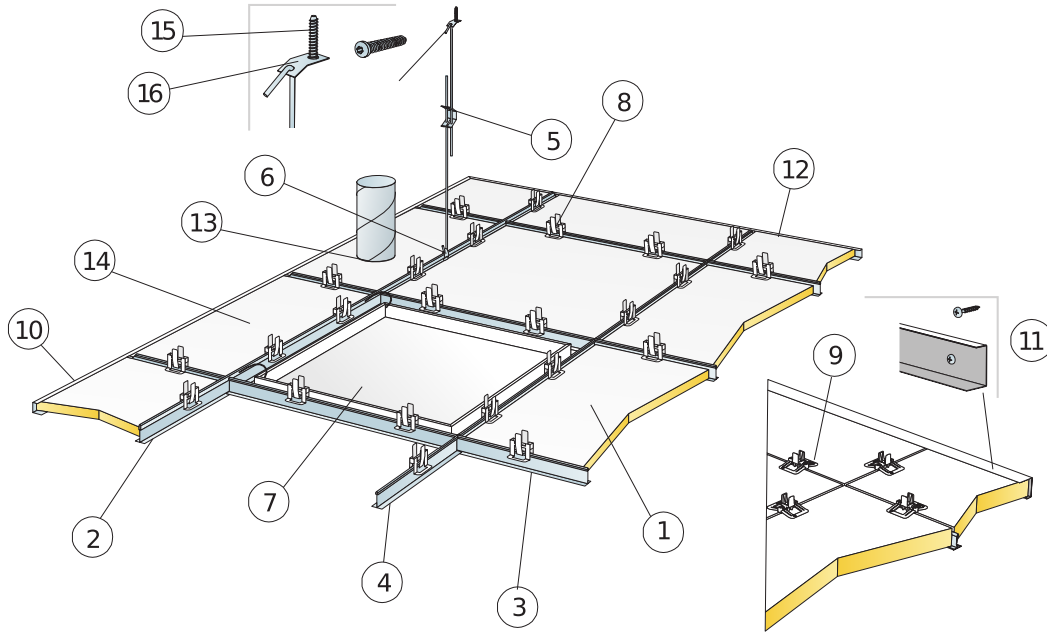
Arrangement of clips
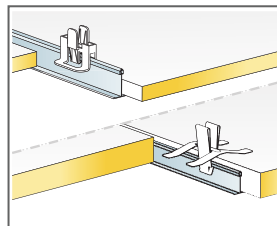
600x600   1200x600

Clips for keeping tiles in place

Size, mm	Max live load (N)	Min load bearing capacity (N)
600x600	40	160
600x600	40	160
1200x600	40	160
1200x600	40	160

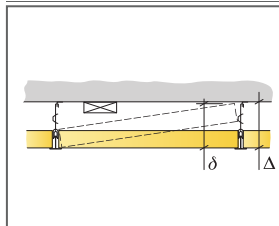Live load/load bearing capacity

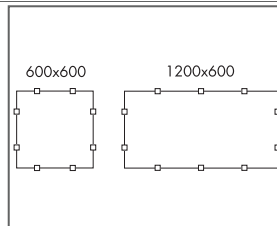INSTALLATION DIAGRAM (M252) FOR ECOPHON HYGIENE ADVANCE™ A C3

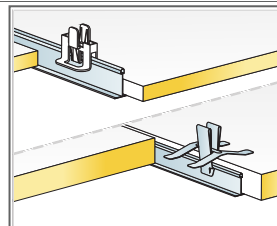
© Ecophon Group

QUANTITY SPECIFICATION (EXCL. WASTAGE)

		Size, mm			
		600x600	**600x600**	**1200x600**	**1200x600**
1	Hygiene Advance 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 9102, 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 9103, 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 0172	11/m²	11/m²	7/m²	7/m²
9	Connect Hygiene Clip 40 3254	11/m²	11/m²	7/m²	7/m²
10	Connect Channel Trim C3 (for 20 mm thickness)	as required	as required	as required	as required
11	Connect Channel Trim C3 3465 (for 40 mm thickness)	as required	as required	as required	as required
12	Connect Hygiene Advance Tape	as required	as required	as required	as required
13	Joint sealant (not supplied by Ecophon)	as required	as required	as required	as required
14	Hygiene Advance Technical Tile	as required	as required	as required	as required
15	Connect Anchor Screw C4	0,7/m²	0,7/m²	0,7/m²	0,7/m²
16	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

600x600   1200x600

Arrangement of clips

Clips for keeping tiles in place

Size, mm	Max live load (N)	Min load bearing capacity (N)
600x600	40	160
600x600	40	160
1200x600	40	160
1200x600	40	160

Live load/load bearing capacity

Ecophon Hygiene Advance™ Baffle

Ecophon Hygiene Advance™ Baffle is a vertical baffle that withstands daily advanced cleaning and disinfection with strong chemicals. Suitable for the most demanding conditions, including airborne grease and dirt particles.
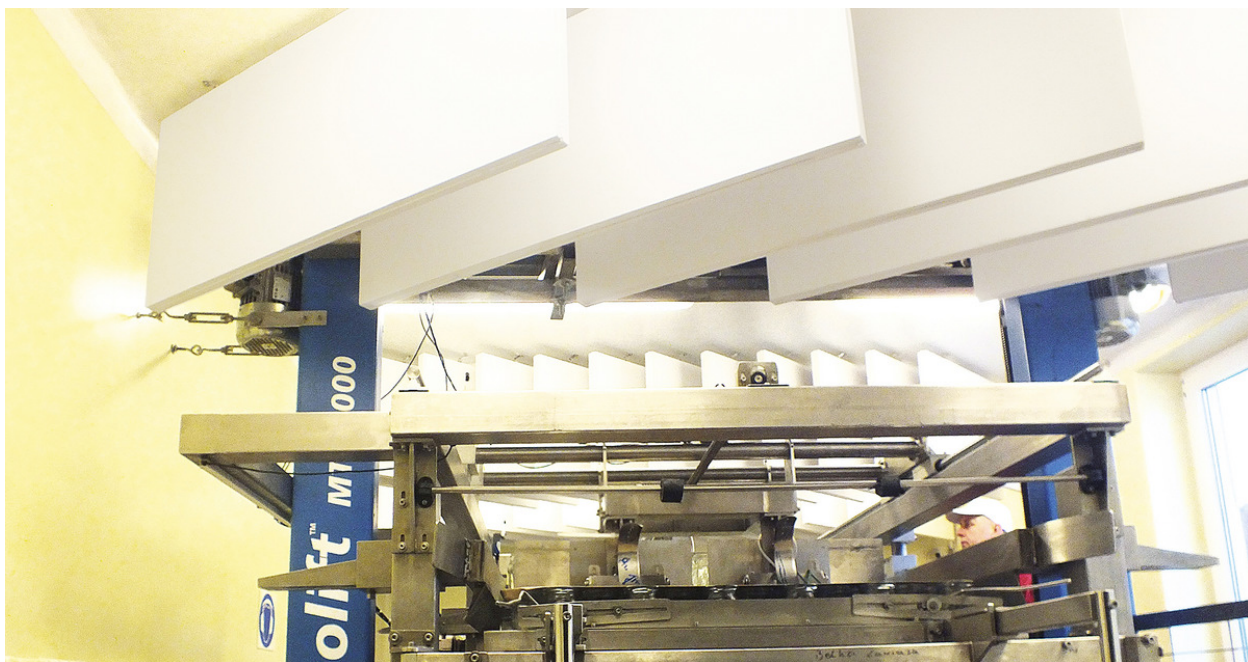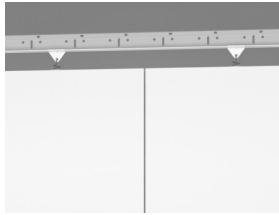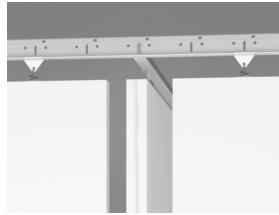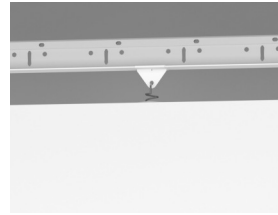

Kętrzyn Majonezy, Poland

SYSTEM RANGE

Size, mm	
	1200x600
T24	•
Thickness	40
Inst. Diagr.	M259, M260

Hygiene Advance Baffle C3 in rows

Hygiene Advance Baffle C3 in rectangles

Hygiene Advance Baffle C3 with Connect Baffle clip

Hygiene Advance Baffle

Acoustic

Sound Absorption:

Test results according to EN ISO 354:2003 NOTE: Results shown are not comparable with results according to older versions of this standard due to discrepancies in test method. 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
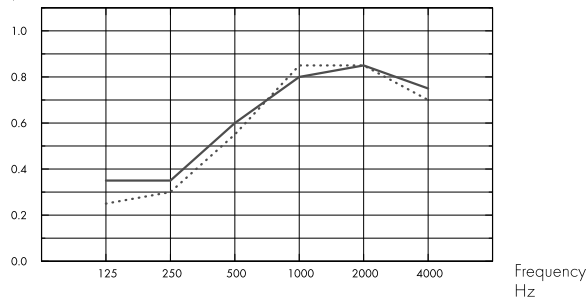
.... Advance Baffle in rows, c600 mm, with ~1,4 baffles/m2 ceiling area, 600 mm o.d.s.

— Advance Baffle in rectangles, with ~1,3 baffles/m2 ceiling area, 600 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		
in rows	40	600	0.25	0.30	0.55	0.85	0.85	0.70	0.55	D
in rectangles	40	600	0.35	0.35	0.60	0.80	0.85	0.75	0.60	C

THK mm	o.d.s. mm	NRC	SAA
40	600	1.00	1.00
40	600	1.00	1.00

Indoor Air Quality

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

Circularity

Minimum post-consumer recycled content	64%
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 141, nearest NCS colour sample S 1000-N, 73% light reflectance.

Cleanability

Daily dusting, vacuum cleaning and wet wiping.

Advanced Cleanability

Low pressure cleaning with water and steam cleaning. Products, once demounted, can be high pressure cleaned according to Ecophon high pressure cleaning protocol. Can withstand use of hydrogen peroxide vapour.

Chemical resistance/Disinfection

Chemical	Concentration
Formalin	37%
Ammoniac	25%
Hydrogen peroxide	30%
Sulfuric acid	5%
Phosphoric acid	30%
Peracetic acid	15%
Hydrochloric acid	5%
Isopropanol	100%
Sodium hydroxide	5%
Sodium hypochlorite	5%

Tested according to ISO 2812-1 and classified according to ISO 4628-1 with excellent result for the following chemicals.

Mould and Bacterial Resistance

Standard/Method	
ISO 846 A	1
ISO 846 C	0

Clean Room

Standard	Standard/Method	Class
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 tiles must be sealed with Connect Hygiene Advance Tape. Penetrations must be sealed with a suitable sealant.

System weight

The weight of the system (including suspension grid) should be approximately 4 kg/m².
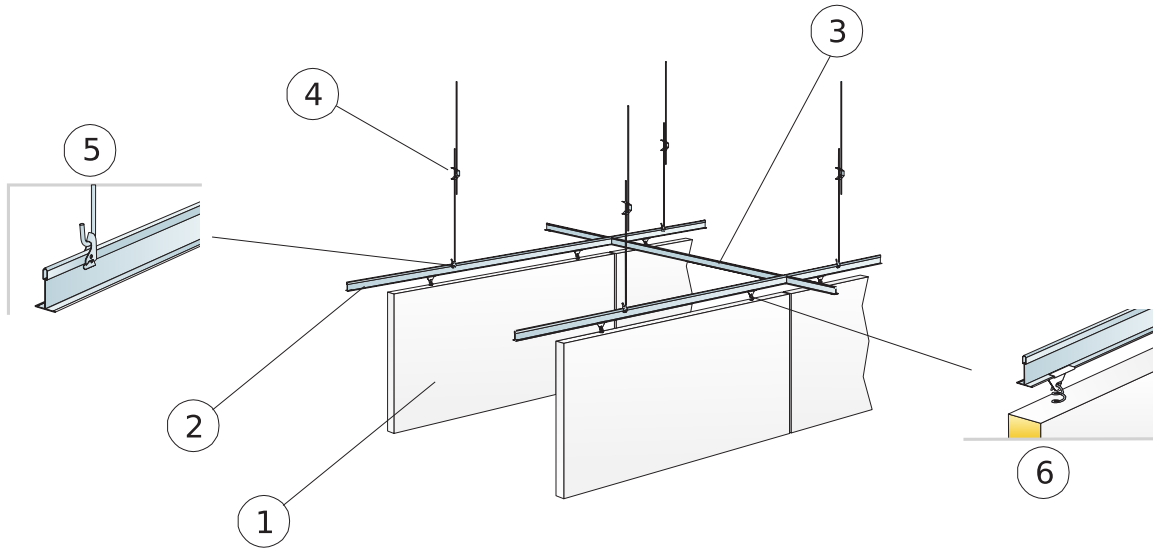
Mechanical properties

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.

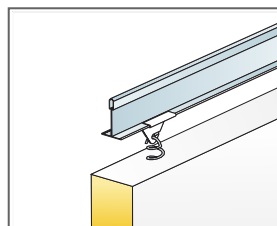INSTALLATION DIAGRAM (M259) FOR ECOPHON HYGIENE ADVANCE™ BAFFLE C3 (IN ROWS)

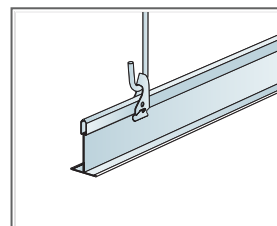© Ecophon Group

QUANTITY SPECIFICATION (EXCL. WASTAGE)

		Size, mm
		1200x600
1	Hygiene Advance Baffle	1,4/m²
2	Connect T24 Main Runner C3, installed at 600 mm centres	1,7m/m²
3	Connect T24 Cross Tee C3 9103, L=600 mm, installed at 1800 mm centres	0,6m/m²
4	Connect Adjustable Hanger C3	1,4/m²
5	Connect Hanger Clip	1,4/m²
6	Connect Baffle Clip C3	2,8/m²

Installation in rows

Detail of suspension

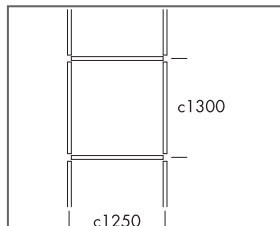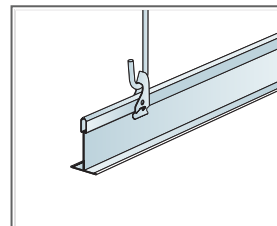Suspension with Connect Adjustable Hanger and Connect Hanger Clip

© Ecophon Group

QUANTITY SPECIFICATION (EXCL. WASTAGE)

		Size, mm
		1200x600
1	Hygiene Advance Baffle	1,3/m²
2	Connect T24 Main Runner C3, installed at 1250 mm centres	0,8m/m²
3	Connect T24 Cross Tee C3, L=1250 mm, installed at 1300 mm centres	0,8m/m²
4	Connect Adjustable Hanger C3	0,7/m²
5	Connect Hanger Clip	0,7/m²
6	Connect Baffle Clip C3	2,5/m²

Installation in rectangles

Detail of suspension

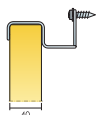Suspension with Connect Adjustable Hanger
and Connect Hanger Clip

Ecophon Hygiene Advance™ Wall

Ecophon Hygiene Advance™ Wall is a wall panel that withstands daily advanced cleaning and disinfection with strong chemicals. Suitable for the most demanding conditions, including airborne grease and dirt particles.

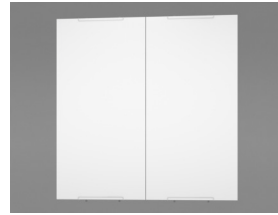Easyfood, Kolding, Denmark

SYSTEM RANGE

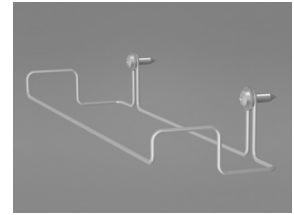| Size, mm	
	1200x600
Special	•
Thickness	40
Inst. Diagr.	M258

Hygiene Advance Wall

Connect Wall fixing C3

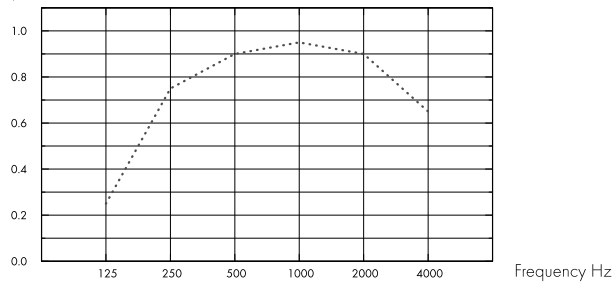Hygiene Advance Wall C3 system

Connect Wall Fixing C3

Acoustic

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

α_p, Practical sound absorption coefficient

···· Hygiene Advance Wall, 80 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		
40	80	0.25	0.75	0.90	0.95	0.90	0.65	0.85	B

Indoor Air Quality

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

Circularity

Minimum post-consumer recycled content	64%
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 141, nearest NCS colour sample S 1000-N, 73% light reflectance.

Cleanability

Daily dusting, vacuum cleaning and wet wiping.

Advanced Cleanability

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

Chemical resistance/Disinfection

Chemical	Concentration
Formalin	37%
Ammoniac	25%
Hydrogen peroxide	30%
Sulfuric acid	5%
Phosphoric acid	30%
Peracetic acid	15%
Hydrochloric acid	5%
Isopropanol	100%
Sodium hydroxide	5%
Sodium hypochlorite	5%

Tested according to ISO 2812-1 and classified according to ISO 4628-1 with excellent result for the following chemicals.

Mould and Bacterial Resistance

Standard/Method	
ISO 846 A	1
ISO 846 C	0

Clean Room

Standard	Standard/Method	Class
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. For information regarding minimum overall depth of system see quantity specification.

System weight

The weight of the system (including profile system) should be approximately 3 kg/pcs.
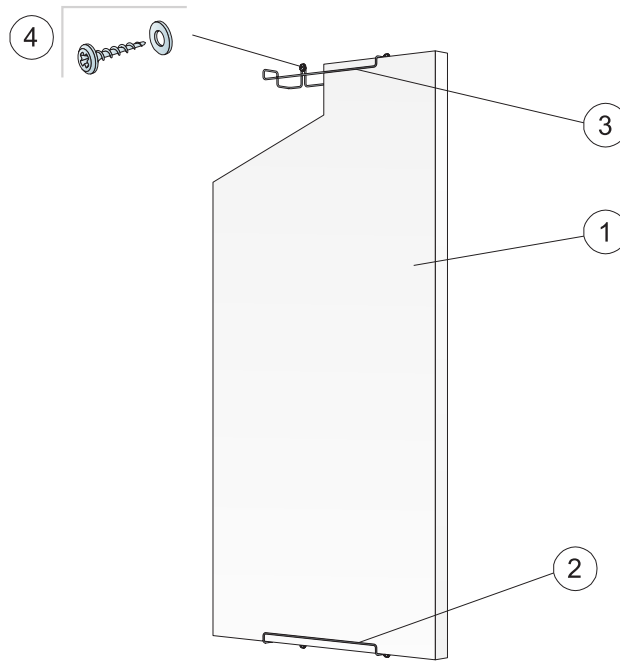
Mechanical properties

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.
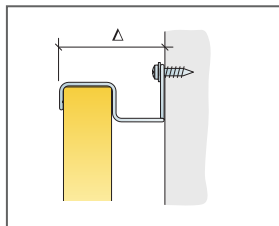
© Ecophon Group

QUANTITY SPECIFICATION (EXCL. WASTAGE)

		Size, mm
		1200x600
1	Hygiene Advance Wall	1,4/m²
2	Connect Wall Fixing C3, vertical installation	2/panel
3	Connect Wall Fixing C3, horisontal installation	4/panel
4	Wall screw, A2 material (not supplied by Ecophon)	2/wall fixing
	Δ Min. overall depth of system: 90 mm	-

See Quantity Specification
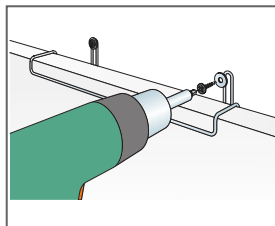
Installation with wall screw in stainless steel (A2) material
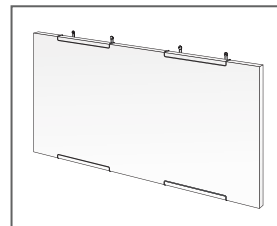
Horisontal installation of Advance Wall C3