

# Ecophon Solo™

**Experiencing freedom of expression**



**Ecophon**®  
SAINT-GOBAIN

A SOUND EFFECT ON PEOPLE



This publication shows products from Ecophon product range and those of other suppliers. The specifications are intended to provide a general guide to which products are most suitable for the preferences indicated. Technical data is based on results obtained under typical testing conditions or long experience in normal conditions. The specified functions and properties for products and systems are only valid on condition that instructions, installation diagrams, installation guides, maintenance instructions and other stated conditions and recommendations have been taken into consideration and followed. Deviation from this, such as changing specific components or products, will mean that Ecophon cannot be held responsible for the function, consequences and properties of the products. All descriptions, illustrations and dimensions contained in this brochure represent general information and shall not form part of any contract. Ecophon reserves the right to change products without prior notice. We disclaim any liability for misprints. For the latest information go to [www.ecophon.com](http://www.ecophon.com) or contact your nearest Ecophon representative.

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# A sound effect on people

## The Ecophon Group

*Saint-Gobain Ecophon contributes to good indoor environments for working, healing and learning. We do this by developing, manufacturing and delivering acoustic products and systems. Our promise »A sound effect on people« is at the core of everything we do.*

That promise makes every one of us a passionate advocate for the importance of room acoustics to people's wellbeing—whatever the space, activity or need.

It's why we invest in everything from an in-house professor in acoustics, to knowledge-sharing networks and e-learning modules and research projects related to sound, health and the environment.

It's driven us to take the industry lead on innovative use of recyclable and bio-based materials in our products and operate with the least environmental impact possible.

And it informs our core approach of developing acoustic materials and know-how around the natural evolution of human hearing—replicating the outdoor sound experience indoors, because that's just better for people.

In other words, it's not a promise we make lightly. We believe every child deserves an environment that makes learning easier and more fun. That every patient should be spared undue stress, every professional is at their best when they can concentrate, and that every factory worker should feel safe at work.

Having a sound effect on people, in every way we can, is what we do proudly.

“ We are driven by Passion, Competence and Innovation



# We know acoustics for offices, education and healthcare

*For over 20 years, Ecophon specialists have been collecting and developing a wealth of knowledge in creating sound acoustic environments. Whatever your project, whatever your role, we're happy to share.*

Ecophon Concept Developers are experts who specialise in office, education or healthcare environments. They follow academic research, trends in architectural design, cutting-edge building technology, as well as standards and regulations. This knowledge is shared through papers, building studies, articles, guides and much more, and is available to you throughout your project.

## **Start to finish**

We understand how complex building construction is. Ecophon professionals are available to you and your project at every stage of development, from planning to ribbon-cutting.

## **Knowledge you can use**

Ecophon professionals bring an informed and up-to-date perspective that adds value at every stage of your project. Whether you're an investor, developer, architect, acoustician, contractor, installer, or other stakeholder, we can provide the guidance and documentation you need to ensure your project is a success.

People perform at their best in an environment designed around their activity and needs. That's why Ecophon developed Activity Based Acoustic Design. Find the optimal acoustic solution for any activity or space by starting from three perspectives:

## Activity

What will people do in the space? Be on the phone, do team work, focus in front of the computer or something else? How much time is spent on communicating?

## People

Who will be using the space? Their age, how many and any special needs are all factors to consider.

## Space

What are the physical properties of the space? Its size, location in the building, and the building materials used are important to take into account.



# Good acoustics matter everywhere

*The importance of acoustics is underappreciated. Sound impacts us in daily life, and the scientific support for improving our indoor sound environments is well-documented.*

*That's not always easy with some spaces. Which is why we developed Ecophon Solo™—a free-hanging range designed to address one of the most common architectural challenges with style.*

## **The Ecophon Solo™ difference**

Ecophon Solo combines compelling design with extremely good sound absorption. It offers a lot of flexibility for improving acoustic performance in high-ceiling or other spaces where a free-hanging option is best.

Think lobbies, atriums, historic buildings, restaurants or shopping centres, among others. Hanging Ecophon Solo units directly over work areas, receptions and information counters, as well as other strategic points throughout the space, will improve acoustic performance considerably. The more Solo panels installed, the better.







# Acoustic design with Ecophon Solo™

*Ecophon Solo™ is well-suited to projects where a wall-to-wall solution is undesired or not an option.*

It doesn't cover the entire ceiling. But the hanging space means both panel sides absorb sound—covering 60% of the ceiling (approximately) with Ecophon Solo will give almost the same performance in high frequencies as a wall-to-wall system.

Installing the panels as low as possible, directly over the work area, makes it easier to speak and hear without the sound travelling to disturb others nearby. Add wall absorbers to any sound-reflecting walls. And to get results even closer to a wall-to-wall solution, install as many baffles as possible with no more space than the baffle's height between them.

## **Solo works well with others**

Ecophon Solo™ can also be used to improve an existing wall-to-wall solution that isn't sufficient for the demands. Adding a combination of Solo absorbers and/or baffles will help the existing solution control the spread of sound and lower noise levels even more effectively.

It's usually better to install Solo panels singly or in clusters at various points over the whole ceiling area, rather than concentrating them in one spot. This will dampen and even out sound throughout the space, and lift the overall quality of the acoustic environment.



# Ecophon Solo™

## Experiencing freedom of expression



*The ever on-point trend Ecophon Solo™ allows freedom of design and opportunity to create striking new expressions. The free-hanging panels and system are all 40 mm thick and come in all the shapes, colours and sizes you need to fulfil your artistic ideas.*

- Superior acoustic qualities
- Available in a wide range of shapes
- Freedom of design with numerous colours, sizes and surface choices





## Ecophon Solo™ product range

Solo is the original acoustic cloud with excellent acoustic qualities giving you unlimited creative options to outstanding design with high functionality.

Choose between a variety of shapes, sizes and colours, create your own unique Solo shape or explore the design features of Solo Textile and Solo Steel.

## See the world in colour

Enhance your visual statement with the extensive Solo colour range. The Solo family standard colour range includes 20 attractive Akutex™ FT colours, inspired by nature. The colour palette also includes an additional seven Solo Textile colours and four Solo Steel colours.



## A shape for every need

Solo is our bravest example of how design and functionality can harmonise to create atmospheres that are pleasing to the eye, the ear and the mind. With several size options and classic shapes, you have all the possibilities to create, whether you like it round, square or rectangular. Big or small.

## Freedom to create high-end design

Absolute design freedom with Ecophon Solo™ Freedom. Use our standard shapes or express yourself by creating your own shape to fit perfectly into your space. Play with colour, installation alternatives such as layering to make an impression with your unique design.



## Experience the acoustic cloud sideways

Hanging from the ceiling, baffles can be used to form distinct lines, rolling waves or zig-zaggy patterns. Mounted on walls, they add interesting contours and depth to any space. It is just as easy to mount as it is pleasing to look at.

## Ecophon E-tools

Ecophon offers several useful tools and services for the different phases of the building process, from inspiration to specific maintenance instructions for your Ecophon products.

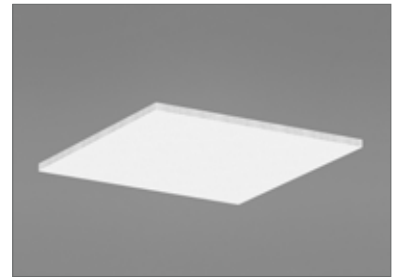
Read more and try our E-tools at [www.ecophon.com](http://www.ecophon.com)



# Ecophon Solo™ product range

The Solo family is available in numerous colours and a vast range of shapes and sizes. These free-hanging panels are all 40 mm thick and offer excellent acoustic qualities.

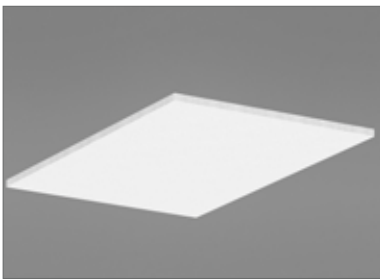
## Ecophon Solo™ Square



### Sizes

1200x1200x40

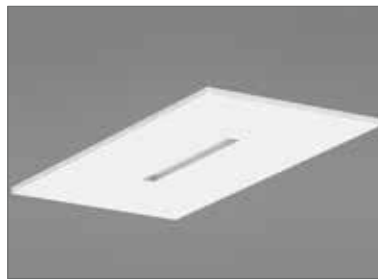
## Ecophon Solo™ Rectangle



### Sizes

1800x1200x40, 2400x600x40,  
2400x1200x40, 3000x1200x40

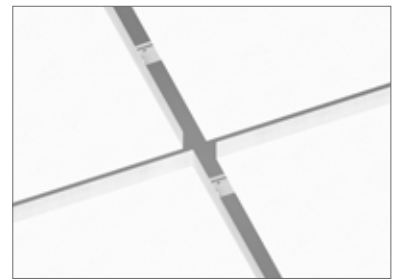
## Ecophon Solo™ Rectangle Line



### Sizes

2400x1200x40

## Ecophon Solo™ Matrix



### Sizes

Modules: 600x1200x40, 600x2400x40,  
1200x1200x40, 2400x1200x40,  
Rows: 600x1040x40, 1200x1040x40,  
2400x1040x40

## Ecophon Solo™ Circle



### Sizes

Ø800x40, Ø1200x40

## Ecophon Solo™ Circle XL



### Sizes

Ø1600x40

## Ecophon Solo™ Freedom

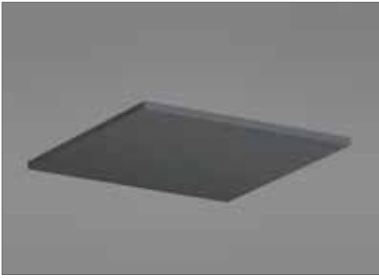


### Sizes

≤ 2400x1200x40



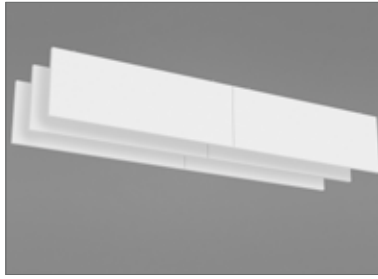
### Ecophon Solo™ Textile



#### Sizes

1200x1200x40

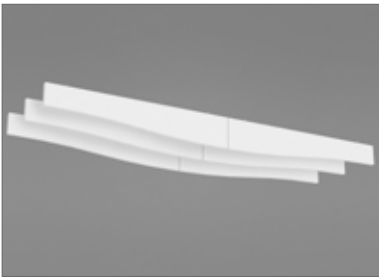
### Ecophon Solo™ Baffle



#### Sizes

1200x200x40, 1200x300x40,  
1200x600x40, 1800x200x40,  
1800x300x40, 1800x600x40

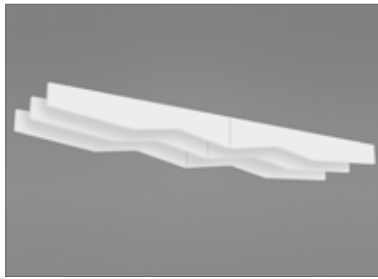
### Ecophon Solo™ Baffle Wave



#### Sizes

1800x300x40, 1800x600x40

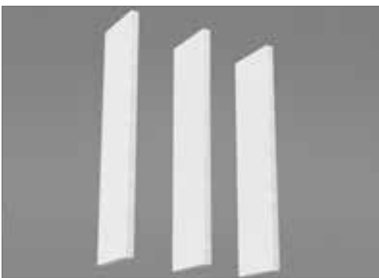
### Ecophon Solo™ Baffle ZigZag



#### Sizes

1800x300x40, 1800x600x40

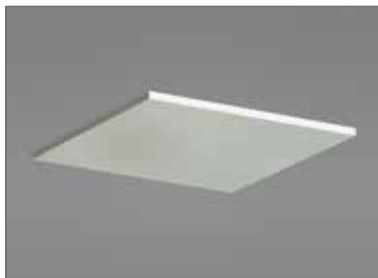
### Ecophon Solo™ Baffle Wall



#### Sizes

1200x200x40, 1200x300x40

### Ecophon Solo™ Steel



#### Sizes

1200x1200x40

Our glass wool contains more than

70%  
recycled glass

Because of our exceptional raw material  
and the use of hydroelectric power and biogas,  
we most probably have the

lowest CO<sub>2</sub>  
emissions

in the business, per produced square metre  
of absorber.

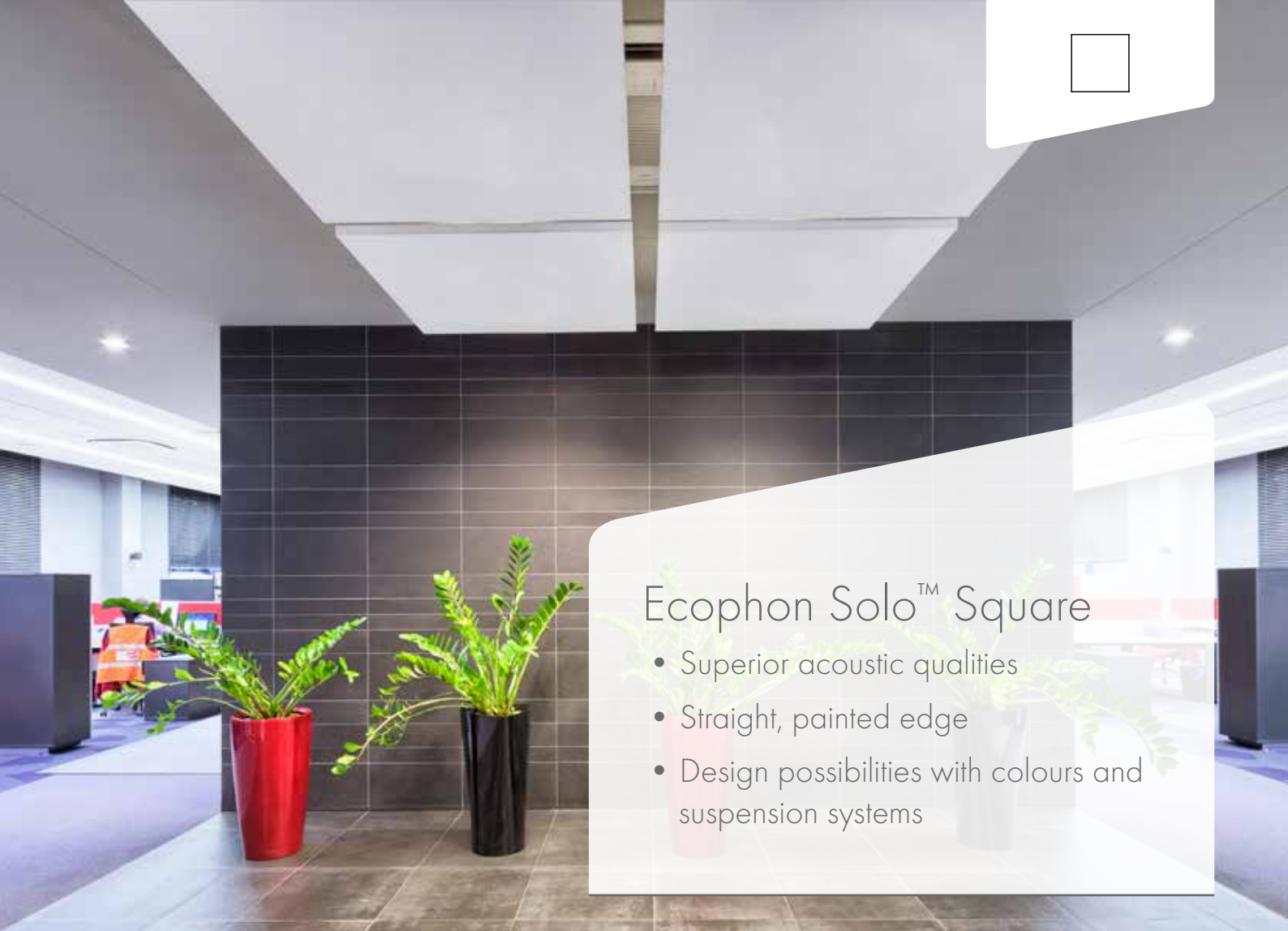
100%  
recyclable

Superior  
fire resistance  
A2-s1,d0

Healthy indoor  
air quality,  
factors that affect our indoor environment:

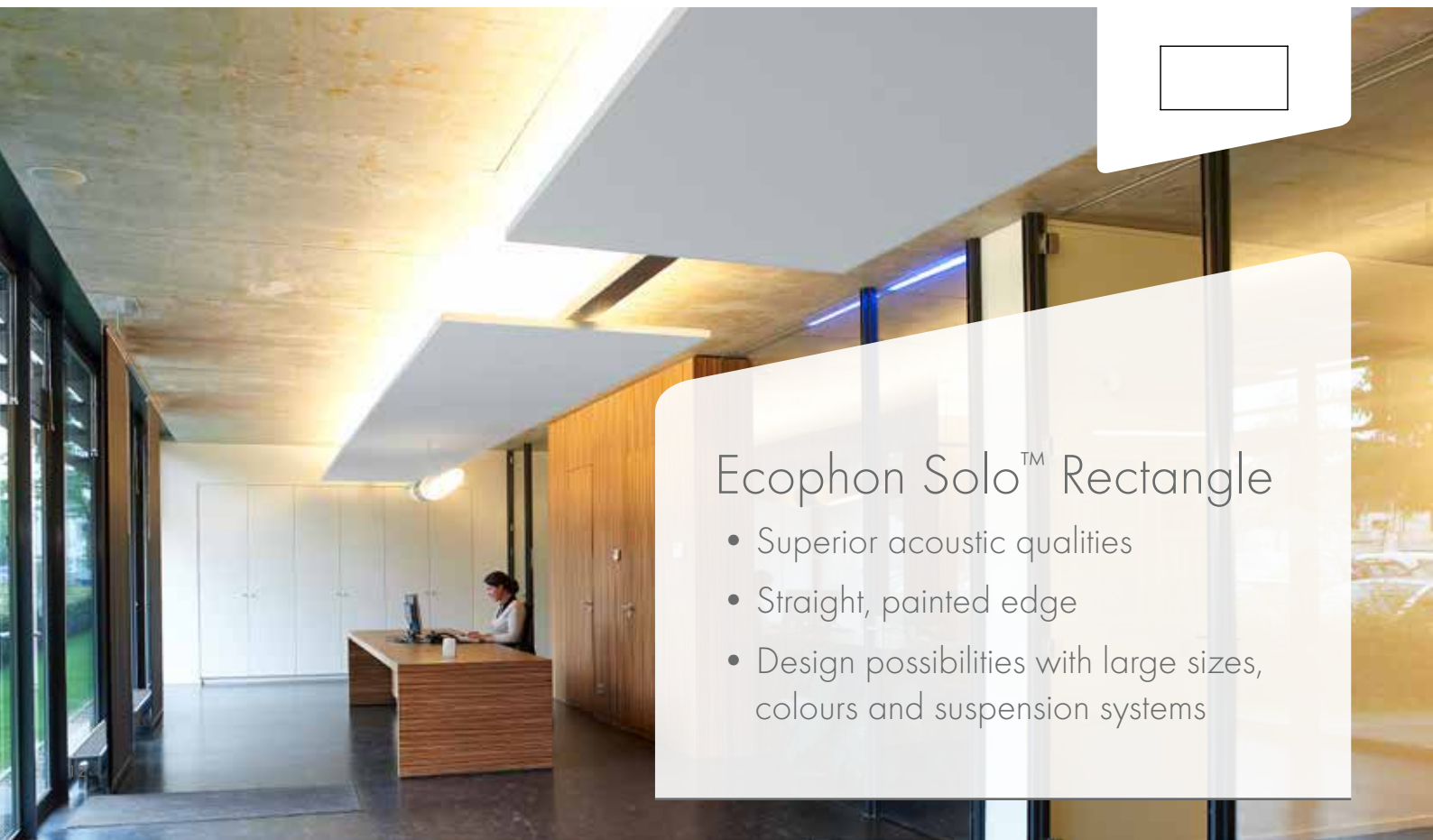
**Indoor air quality**  
**Thermal comfort**  
**Acoustics**  
**Visual or lighting quality**

Ecophon lives and breathes  
acoustic solutions, but did  
you know that our products  
also are good for a healthy  
indoor air quality.



## Ecophon Solo™ Square

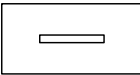
- Superior acoustic qualities
- Straight, painted edge
- Design possibilities with colours and suspension systems



## Ecophon Solo™ Rectangle

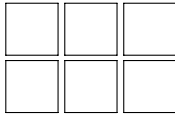
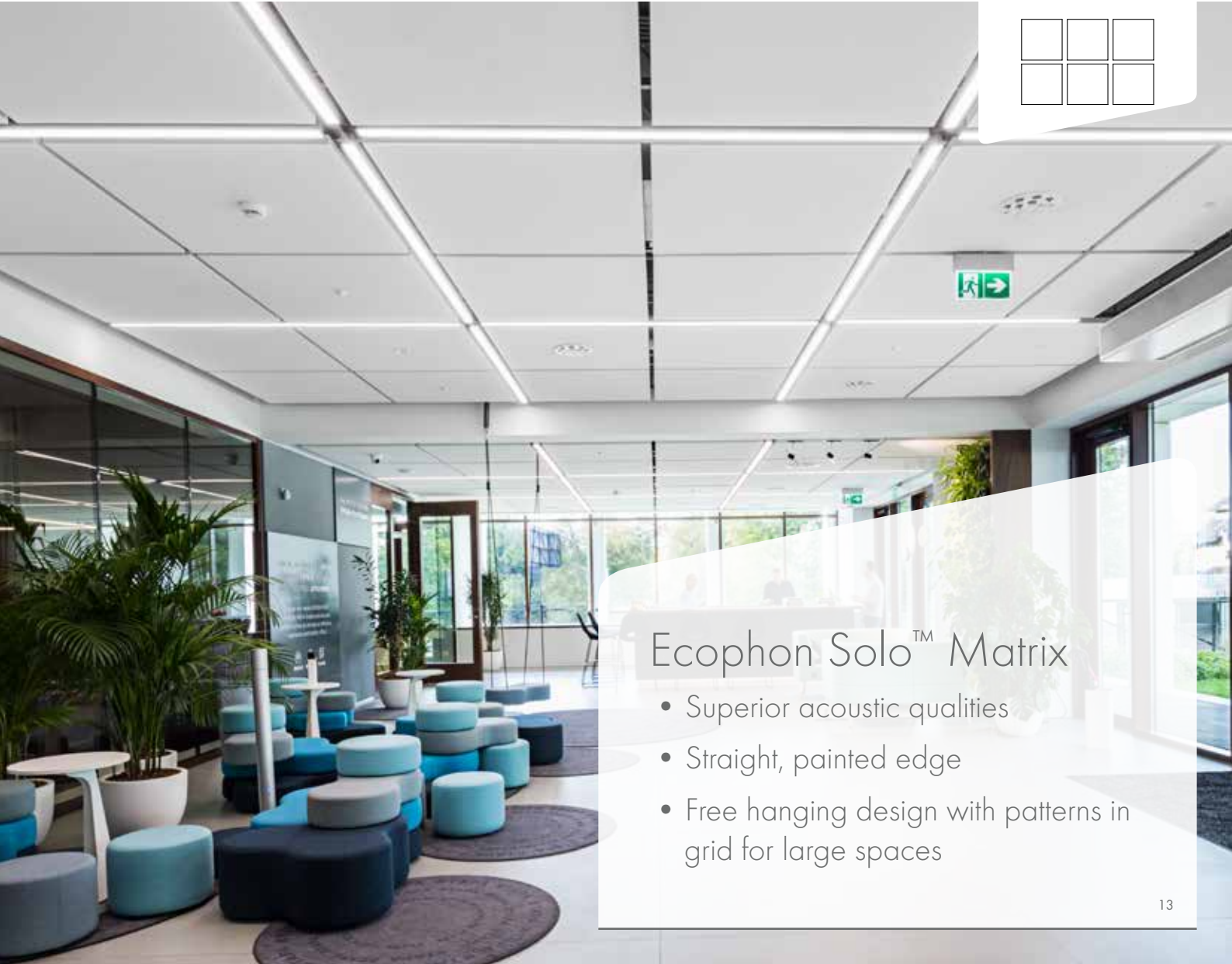
- Superior acoustic qualities
- Straight, painted edge
- Design possibilities with large sizes, colours and suspension systems





## Ecophon Solo™ Rectangle Line

- Superior acoustic qualities
- Straight, painted edge
- Fully integrated recessed luminaire with high level output



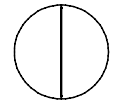
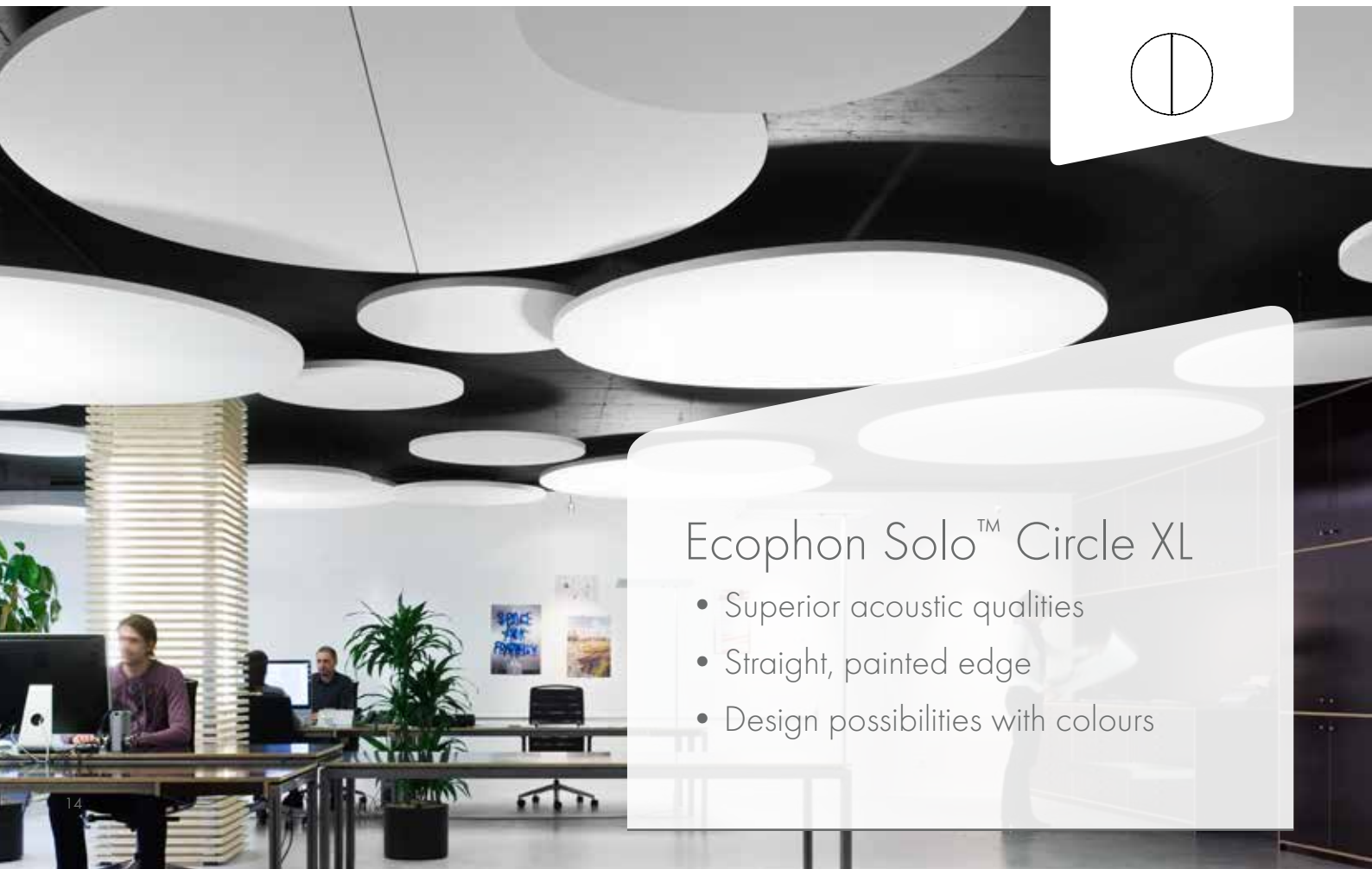
## Ecophon Solo™ Matrix

- Superior acoustic qualities
- Straight, painted edge
- Free hanging design with patterns in grid for large spaces



## Ecophon Solo™ Circle

- Superior acoustic qualities
- Straight, painted edge
- Design possibilities with colours and suspension systems



## Ecophon Solo™ Circle XL

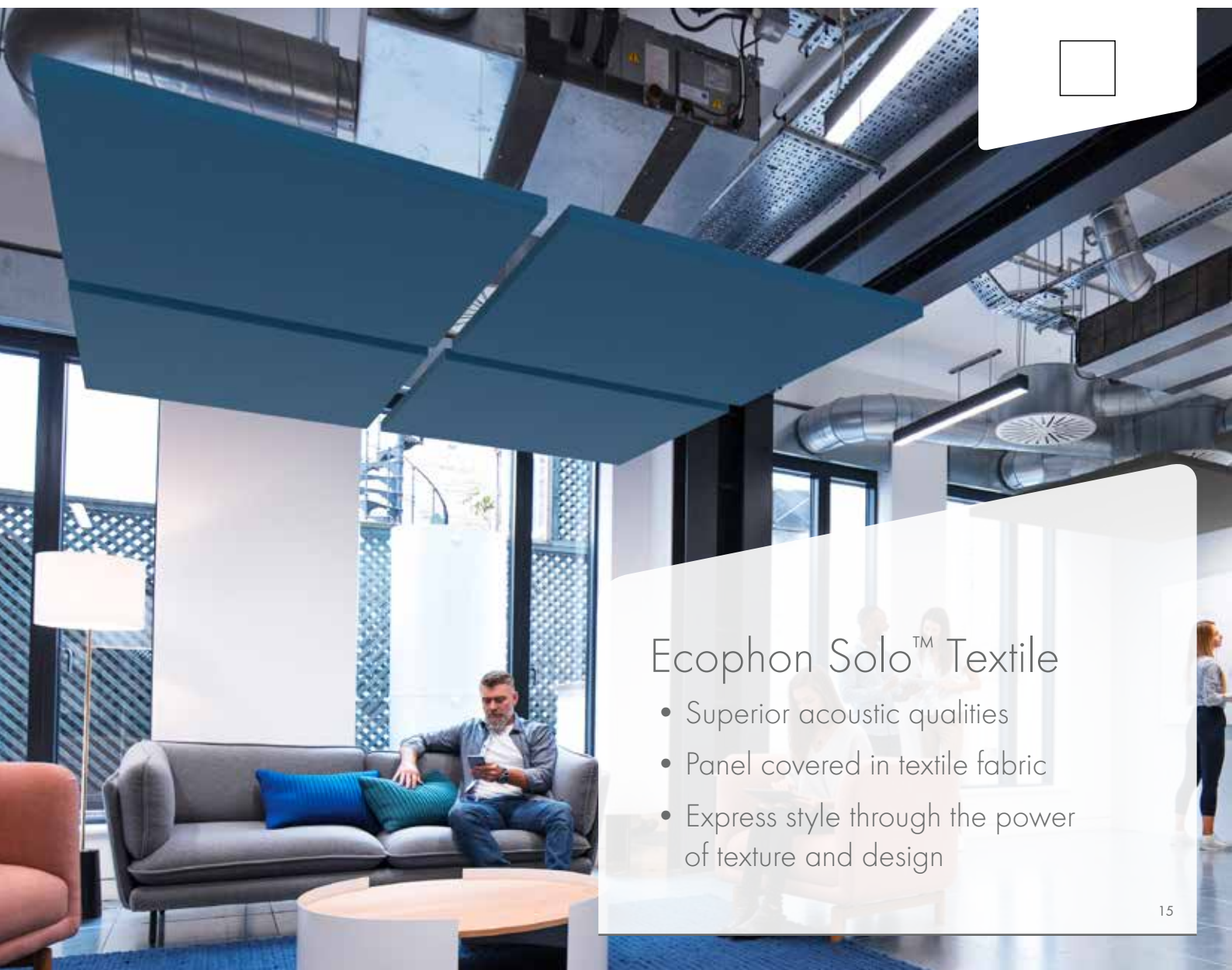
- Superior acoustic qualities
- Straight, painted edge
- Design possibilities with colours





## Ecophon Solo™ Freedom

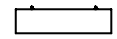
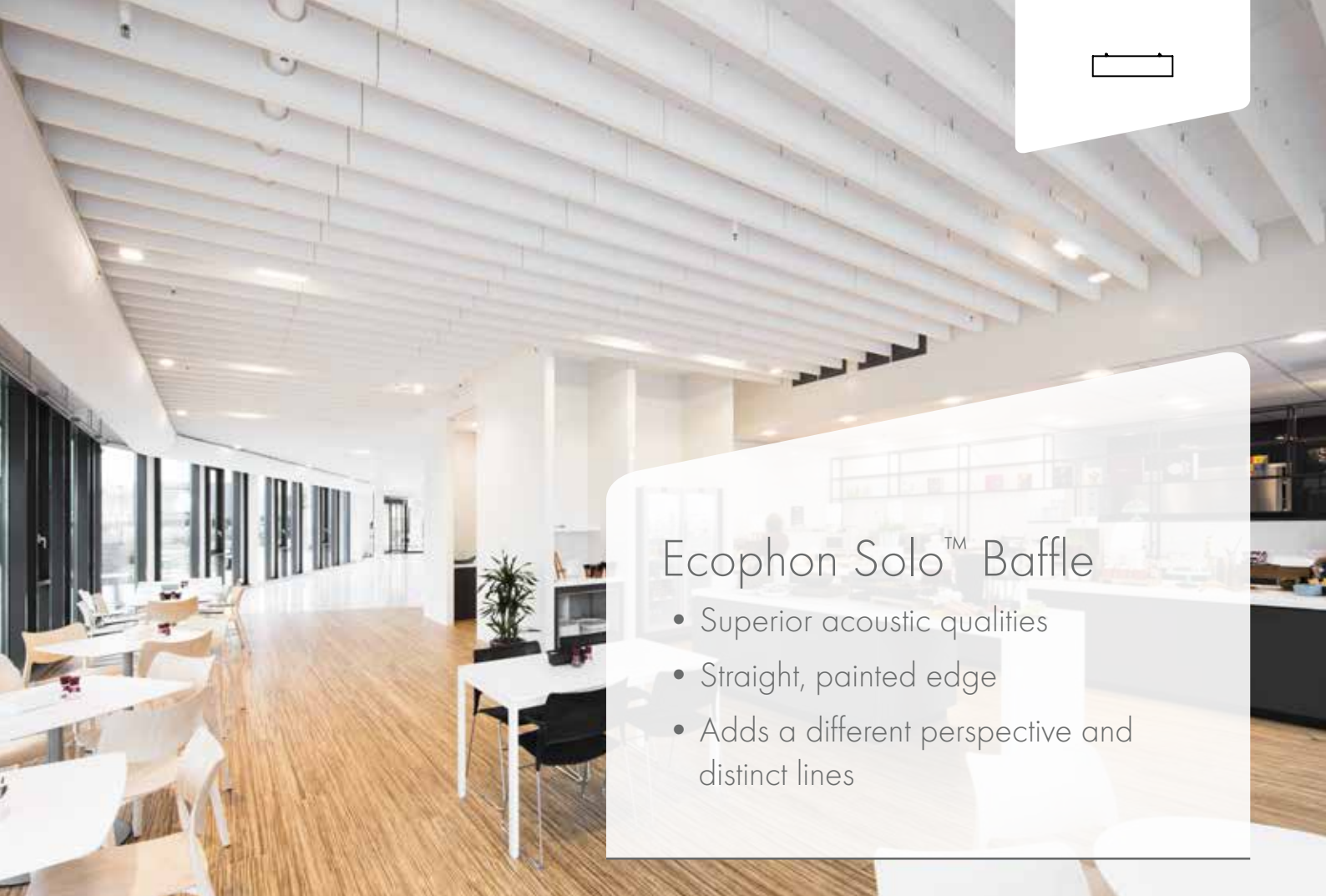
- Superior acoustic qualities
- Custom-made shapes with your own design
- 6 creative standard shapes



## Ecophon Solo™ Textile

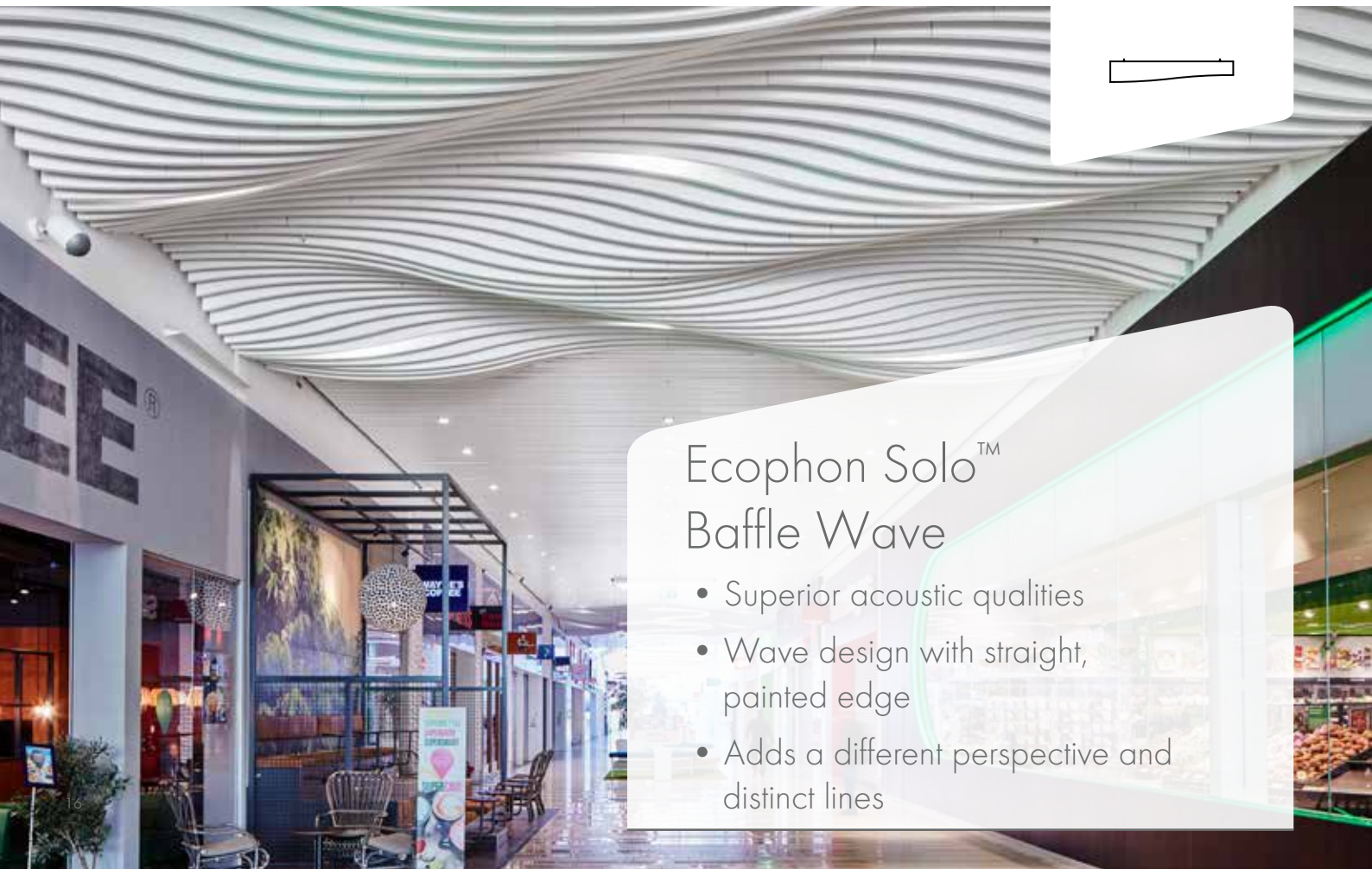
- Superior acoustic qualities
- Panel covered in textile fabric
- Express style through the power of texture and design





## Ecophon Solo™ Baffle

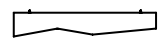
- Superior acoustic qualities
- Straight, painted edge
- Adds a different perspective and distinct lines



## Ecophon Solo™ Baffle Wave

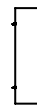
- Superior acoustic qualities
- Wave design with straight, painted edge
- Adds a different perspective and distinct lines





## Ecophon Solo™ Baffle ZigZag

- Superior acoustic qualities
- ZigZag design with straight painted edge
- Adds a different perspective and distinct lines



## Ecophon Solo™ Baffle Wall

- Superior acoustic qualities
- Straight cut and painted
- Add interesting contours and depth to any space





## Ecophon Solo™ Steel

- Superior acoustic qualities
- Covered with perforated steel, painted with powder coating
- A robust design with high performance



## A perfect match

Ecophon Akusto™ wall solutions is an excellent complement to further improve the acoustic environment. Akusto solves acoustic challenges whilst also providing opportunities to follow current trends in design and installation. An array of colours and different textured finishes ensure that Akusto is suitable for a range of applications.

**Ecophon**  
— SAINT-GOBAIN

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# Mounting methods

Ecophon Solo™ offers a variety of mounting methods to meet market requirements for different installations, both for wall and ceiling. Enjoy freedom of expression with a variety of installation styles.



**Direct installation** close to the soffit with Connect Absorber Bracket and Connect Absorber Anchor. The brackets are available in adjustable lengths of 50-70 mm and 70-90 mm.

**Suspended wire installation** with Connect Adjustable Wire Hanger. Suspended wire mounting can also be done with an angle of up to 45° and in multi-levels.



**Connect One-point Fixing** with Connect Absorber Anchor and Connect Adjustable Wire Hanger. The installation has a discrete design and reduces the amount of fixations in the soffit.

**Solo Matrix™ installation** can be done in modules or rows with Connect™ grid system. The pre-installed anchors and click-in connection to the grid system gives a free hanging design with the accuracy of a grid system. The Connect Nonius Hangers is available in a range of different lengths.



**Baffle installation** can be done as direct installation using Solo Baffle Anchor and Connect Baffle Profiles or Connect Baffle Wall Fixing. For suspended mounting Connect Adjustable Wire Hanger or Connect grid system can be used with Solo Baffle Hook.



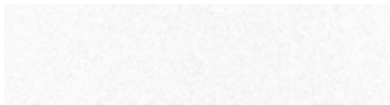
# Colours and surfaces

## why the colour and surface are important



### Akutex™ FT

The Akutex™ label guarantees that the product carrying it has a superior surface technology. Our research and development will always focus on visual aspects, acoustic properties, working environment, architectural trends and environmental aspects. This ensures that Akutex™ is always one step ahead.



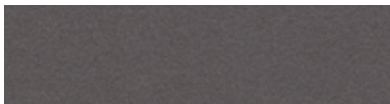
**White Frost**  
Nearest NCS colour sample S 0500-N  
Light reflectance 85%.



**Volcanic Ash**  
Nearest NCS colour sample 2002-Y  
Light reflectance 56%.



**Silver Stone**  
Nearest NCS colour sample S 4502-Y  
Light reflectance 29%.



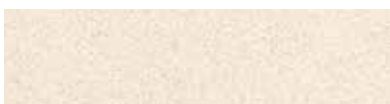
**Silk Slate**  
Nearest NCS colour sample S 7000-N  
Light reflectance 13%.



**Goji Berry**  
Nearest NCS colour sample S 3030-Y80R  
Light reflectance 27%.



**Silent Steam**  
Nearest NCS colour sample S 2010-B  
Light reflectance 45%.



**Scallop Shells**  
Nearest NCS colour sample S 0804-Y50R  
Light reflectance 76%.



**Ocean Storm**  
Nearest NCS colour sample S 4020-R90B  
Light reflectance 24%.



**Moonlight Sky**  
Nearest NCS colour sample S 7020-R90B  
Light reflectance 7%.



**Golden Field**  
Nearest NCS colour sample S 1040-G90Y  
Light reflectance 61%.



**Sunset Heat**  
Nearest NCS colour sample S 2070-Y60R  
Light reflectance 20%.



**Ruby Rock**  
Nearest NCS colour sample S 4050-R10B  
Light reflectance 7%.



**Eucalyptus Leaf**  
Nearest NCS colour sample S 5010-B30G  
Light reflectance 23%.



**Summer Forest**  
Nearest NCS colour sample S 6030-G10Y  
Light reflectance 10%.



**Dark Diamond**  
Nearest NCS colour sample S 9000-N  
Light reflectance 4%.



**Morning Drizzle**  
Nearest NCS colour sample S 1002-B  
Light reflectance 69%.



**Cloudy Day**  
Nearest NCS colour sample S 1500-N  
Light reflectance 62%.



**Peach Rose**  
Nearest NCS colour sample S 1515-Y80R  
Light reflectance 55%.



**Highland Fog**  
Nearest NCS colour sample S 2005-G  
Light reflectance 55%.



**Sage Garden**  
Nearest NCS colour sample S 3010-B30G  
Light reflectance 39%.

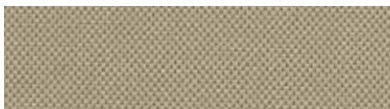
**Note:**  
Colours may vary slightly between different production batches.

Reproduction of colours vary between print and reality.

An acoustic ceiling is often the largest continuous surface in a room. This means that it will affect not only the entire look and feel of the interior, but also the **end-users' wellbeing**. Ecophon has developed different types of surfaces and in different colours to suit most types of environments.

## Ecophon Textile

Ecophon Textile gives you the ability to create good acoustics that look at once understated and eye catching. The subtle pattern is made from a high-quality knitted material using the pique technique. It's characterised by a texture of fine ribbing, giving it a soft glow when light shines on the surface.



**Peaceful**  
Nearest NCS colour sample S 3010-G80Y  
Light reflectance 37%.



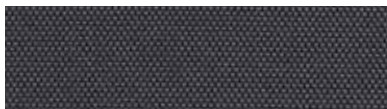
**Reliable**  
Nearest NCS colour sample S 3502-Y  
Light reflectance 37%.



**Curious**  
Nearest NCS colour sample S 3030-B  
Light reflectance 29%.



**Confident**  
Nearest NCS colour sample S 6020-R90B  
Light reflectance 9%.



**Genuine**  
Nearest NCS colour sample S 7005-R80B  
Light reflectance 10%.



**Fearless**  
Nearest NCS colour sample S 9000-N  
Light reflectance 2%.



**Passionate**  
Nearest NCS colour sample S 2030-R20B  
Light reflectance 33%.

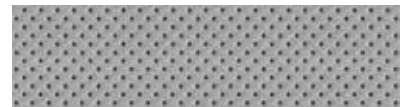
**Note:**  
limited colour variation may occur between batches. Ecophon Textile fabrics have been designed for long durability, regular dusting according to Ecophon specifications and limited exposure to direct UVs are recommended to increase the lifespan of the products. Reproduction of colours vary between print and reality.

## Ecophon Steel

Ecophon Steel is a micro-perforated steel surface with powder coating that gives a robust and contemporary feel.



**Milky Way**  
Nearest NCS colour sample S 0500-N  
Light reflectance 85%.



**Asteroid Grey**  
Nearest NCS colour sample S 3502-R  
Light reflectance 38%.



**Endless Space**  
Nearest NCS colour sample S 9000-N  
Light reflectance 2%.




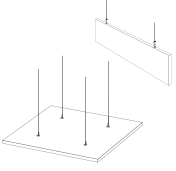
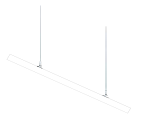


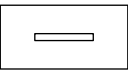










**Venus Copper**  
Nearest NCS colour sample S 3040-Y50R  
Light reflectance 22%.

**Note:**  
Colours may vary slightly between different production batches.

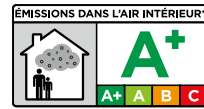
Reproduction of colours vary between print and reality.



# Ecophon Solo™ overview

| Shape   | Product                        | Size, (mm)                        | Installation methods   |   |   |
|---|--------------------------------|-----------------------------------|--|---|---|
|   |                                |                                   | Direct   | Suspended with wire   | Suspended with wire, angle $\leq 45^\circ$  |
|   |                                |                                   |  |  |  |
|    | Ecophon Solo™ Square           | 1200x1200x40                      | •  | •   | •   |
|    | Ecophon Solo™ Rectangle        | 2400x600x40                       | •  | •   | •   |
|   |                                | 1800x1200x40                      | •  | •   | •   |
|   |                                | 2400x1200x40                      | •  | •   | •   |
|   |                                | 3000x1200x40                      |  | •   |   |
|    | Ecophon Solo™ Rectangle Line   | 2400x1200x40                      |  | •   |   |
|   | Ecophon Solo™ Matrix (Modules) | 600x1200x40                       |  |   |   |
|   |                                | 600x2400x40                       |  |   |   |
|   |                                | 1200x1200x40                      |  |   |   |
|   |                                | 2400x1200x40                      |  |   |   |
|   | Ecophon Solo™ Matrix (Rows)    | 600x1040x40                       |  |   |   |
|   |                                | 1200x1040x40                      |  |   |   |
| 2400x1040x40  |                                |                                   |  |   |   |
|  | Ecophon Solo™ Circle           | Ø 800x40                          | •  | •   | •   |
|   |                                | Ø 1200x40                         | •  | •   | •   |
|  | Ecophon Solo™ Circle XL        | Ø 1600x40                         |  | •   |   |
|  | Ecophon Solo™ Freedom          | $\leq 2400 \times 1200 \times 40$ | •  | •   | •   |
|  | Ecophon Solo™ Textile          | 1200x1200x40                      | •  | •   |   |
|  | Ecophon Solo™ Baffle           | 1200x200x40                       | •  | •   |   |
|   |                                | 1200x300x40                       | •  | •   |   |
|   |                                | 1200x600x40                       | •  | •   |   |
|   |                                | 1800x200x40                       | •  | •   |   |
|   |                                | 1800x300x40                       | •  | •   |   |
|   |                                | 1800x600x40                       | •  | •   |   |
|  | Ecophon Solo™ Baffle ZigZag    | 1800x300/200x40                   | •  | •   |   |
|   |                                | 1800x600/300x40                   | •  | •   |   |
|  | Ecophon Solo™ Baffle Wave      | 1800x300/200x40                   | •  | •   |   |
|   |                                | 1800x600/300x40                   | •  | •   |   |
|  | Ecophon Solo™ Baffle Wall      | 1200x200x40                       |  |   |   |
|   |                                | 1200x300x40                       |  |   |   |
|  | Ecophon Solo™ Steel            | 1200x1200x40                      |  | •   |   |

| Suspended, with wire, multi-level | Suspended with wire, one-point | Suspended with Connect™ grid | Suspended in Connect™ grid | Wall | Surface         |
|-----------------------------------|--------------------------------|------------------------------|----------------------------|------|-----------------|
|                                   |                                |                              |                            |      |                 |
| •                                 | •                              |                              |                            |      | Akutex™ FT      |
| •                                 |                                |                              |                            |      | Akutex™ FT      |
| •                                 |                                |                              |                            |      |                 |
| •                                 | •                              |                              |                            |      |                 |
|                                   |                                |                              |                            |      | Akutex™ FT      |
|                                   |                                |                              | •                          |      | Akutex™ FT      |
|                                   |                                |                              | •                          |      |                 |
|                                   |                                |                              | •                          |      |                 |
|                                   |                                |                              | •                          |      |                 |
|                                   |                                |                              | •                          |      |                 |
|                                   |                                |                              | •                          |      |                 |
| •                                 |                                |                              |                            |      | Akutex™ FT      |
| •                                 | •                              |                              |                            |      |                 |
|                                   |                                |                              |                            |      | Akutex™ FT      |
|                                   |                                |                              |                            |      |                 |
| •                                 |                                |                              |                            |      | Akutex™ FT      |
|                                   |                                |                              |                            |      | Ecophon Textile |
|                                   |                                | •                            |                            |      | Akutex™ FT      |
|                                   |                                | •                            |                            |      |                 |
|                                   |                                | •                            |                            |      |                 |
|                                   |                                | •                            |                            |      |                 |
|                                   |                                | •                            |                            |      |                 |
|                                   |                                | •                            |                            |      | Akutex™ FT      |
|                                   |                                | •                            |                            |      |                 |
|                                   |                                | •                            |                            |      | Akutex™ FT      |
|                                   |                                | •                            |                            |      |                 |
|                                   |                                |                              |                            | •    | Akutex™ FT      |
|                                   |                                |                              |                            | •    |                 |
|                                   |                                |                              |                            |      | Ecophon Steel   |



Ecophon Solo™ panels contribute to a healthy indoor environment with naturally low VOC emissions, as they do not contain any added formaldehyde. As a result, Solo panels comply with the most stringent regulations and certifications in the construction product market – the French VOC A+ and Finnish M1 certifications.

The products do not contribute to fire and the glass wool core of the Solo tiles is tested and classified as non-combustible according to EN ISO 1182. Fire classification according to EN 13501-1, see Technical Properties on respectively product.

All Ecophon Solo products can be dry-wiped and vacuumed daily. The Akutex FT surface can also be wet-wiped weekly.

More product and system information such as installation help and sustainability documentation can be found at [www.ecophon.com](http://www.ecophon.com)





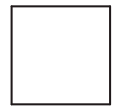


# System properties

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Acoustics, technical properties and  
installation diagrams

|                              |    |
|------------------------------|----|
| Ecophon Solo™ Square         | 26 |
| Ecophon Solo™ Rectangle      | 28 |
| Ecophon Solo™ Rectangle Line | 30 |
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| Ecophon Solo™ Circle         | 34 |
| Ecophon Solo™ Circle XL      | 36 |
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| Ecophon Solo™ Textile        | 40 |
| Ecophon Solo™ Baffle         | 42 |
| Ecophon Solo™ Baffle Wave    | 44 |
| Ecophon Solo™ Baffle ZigZag  | 46 |
| Ecophon Solo™ Baffle Wall    | 48 |
| Ecophon Solo™ Steel          | 50 |



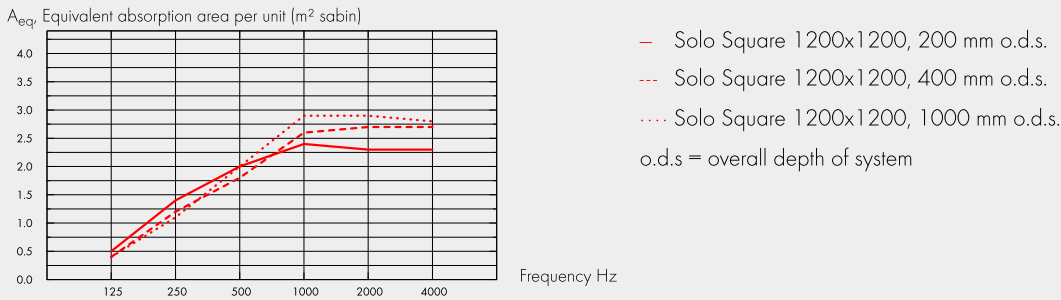
# Ecophon Solo™ Square

## Acoustic

The values in the diagram refer to a single unit. If the units are arranged in a cluster with distances between units less than 0,5 meters, the Aeq per unit will be slightly reduced.

### Sound Absorption:

Test results according to EN ISO 354.



| THK<br>mm | o.d.s. mm | A <sub>eq</sub> Equivalent absorption area per unit (m <sup>2</sup> sabin) |        |        |         |         |         |
|-----------|-----------|--|--------|--------|---------|---------|---------|
|           |           | 125 Hz   | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz |
| 40        | 200       | 0.5  | 1.4    | 2.0    | 2.4     | 2.3     | 2.3     |
| 40        | 400       | 0.4  | 1.2    | 1.8    | 2.6     | 2.7     | 2.7     |
| 40        | 1000      | 0.4  | 1.1    | 2.0    | 2.9     | 2.9     | 2.8     |

**Indoor Air Quality:** French VOC, A+. Finnish M1.

**Environmental Footprint:** Kg CO<sub>2</sub> equiv/m<sup>2</sup>: 8,07 From EPD in conformity with ISO 14025 / EN 15804

**Circularity:** Fully recyclable

**Fire safety:** The glass wool core of the tiles is tested and classified as non-combustible according to EN ISO 1182. Europe. EN 13501-1. A2-s1,d0

**Humidity Resistance:** Class A, relative humidity 70% and 25°C, according to EN 13964:2014

**Visual appearance:** White Frost, nearest NCS colour sample S 0500-N, 85% light reflectance. Gloss < 1.

**Cleanability:** Daily dusting and vacuum cleaning. Weekly wet wiping.

**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.

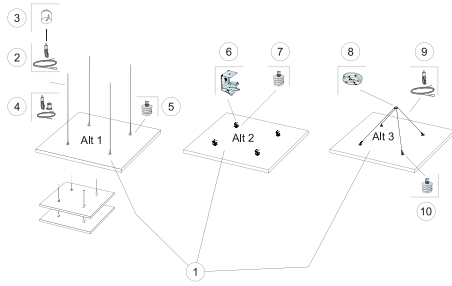
**Mechanical properties:** The tile can take both point loads and distributed loads. See Functional demands, Mechanical properties at [www.ecophon.com](http://www.ecophon.com).

**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.

**M402**

Installation diagram (M402) for Ecophon Solo Square

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# Ecophon Solo™ Rectangle

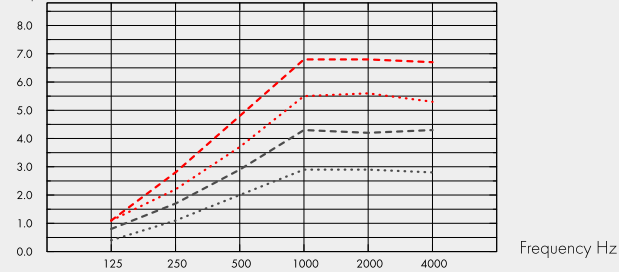
## Acoustic

The values in the diagram refer to a single unit. If the units are arranged in a cluster with distances between units less than 0,5 meters, the Aeq per unit will be slightly reduced.

### Sound Absorption:

Test results according to EN ISO 354.

A<sub>eq</sub> Equivalent absorption area per unit (m<sup>2</sup> sabin)



- ..... Solo Rectangle 2400x1200, 1000 mm o.d.s.
  - Solo Rectangle 1800x1200, 1000 mm o.d.s.
  - ..... Solo Rectangle 2400x600, 1000 mm o.d.s.
  - Solo Rectangle 3000x1200, 1000 mm o.d.s.
- o.d.s = overall depth of system

|           | THK mm | o.d.s. mm | A <sub>eq</sub> Equivalent absorption area per unit (m <sup>2</sup> sabin) |        |        |         |         |         |
|-----------|--------|-----------|--|--------|--------|---------|---------|---------|
|           |        |           | 125 Hz   | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz |
| 2400x1200 | 40     | 200       | 1.3  | 2.8    | 3.5    | 4.1     | 4.1     | 3.9     |
| 2400x1200 | 40     | 400       | 1.2  | 2.4    | 3.3    | 4.7     | 4.9     | 4.7     |
| 2400x1200 | 40     | 1000      | 1.1  | 2.2    | 3.7    | 5.5     | 5.6     | 5.3     |
| 1800x1200 | 40     | 1000      | 0.8  | 1.7    | 2.9    | 4.3     | 4.2     | 4.3     |
| 2400x600  | 40     | 200       | 0.5  | 1.4    | 2.0    | 2.4     | 2.3     | 2.3     |
| 2400x600  | 40     | 400       | 0.4  | 1.2    | 1.8    | 2.6     | 2.7     | 2.7     |
| 2400x600  | 40     | 1000      | 0.4  | 1.1    | 2.0    | 2.9     | 2.9     | 2.8     |
| 3000x1200 | 40     | 200       | 1.1  | 3.3    | 4.4    | 5.1     | 5.1     | 5.0     |
| 3000x1200 | 40     | 400       | 1.2  | 3.0    | 4.2    | 5.8     | 5.8     | 5.7     |
| 3000x1200 | 40     | 1000      | 1.1  | 2.8    | 4.8    | 6.8     | 6.8     | 6.7     |

|           | THK mm | o.d.s. mm | A <sub>eq</sub> Equivalent absorption area per unit (m <sup>2</sup> sabin) |        |        |         |         |         |
|-----------|--------|-----------|--|--------|--------|---------|---------|---------|
|           |        |           | 125 Hz   | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz |
| 1800x1200 | 40     | 200       | 0.6  | 2.0    | 2.9    | 3.4     | 3.3     | 3.1     |
| 1800x1200 | 40     | 400       | 0.8  | 1.9    | 2.6    | 3.7     | 3.7     | 3.6     |

**Indoor Air Quality:** French VOC, A+. Finnish M1.

**Environmental Footprint:** Kg CO<sub>2</sub> equiv/m<sup>2</sup>: 7,96 From EPD in conformity with ISO 14025 / EN 15804

**Circularity:** Fully recyclable

**Fire safety:** The glass wool core of the tiles is tested and classified as non-combustible according to EN ISO 1182. Europe. EN 13501-1. A2-s1,d0

**Humidity Resistance:** Class A, relative humidity 70% and 25°C, according to EN 13964:2014

**Visual appearance:** White Frost, nearest NCS colour sample S 0500-N, 85% light reflectance. Gloss < 1.

**Cleanability:** Daily dusting and vacuum cleaning. Weekly wet wiping.

**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.

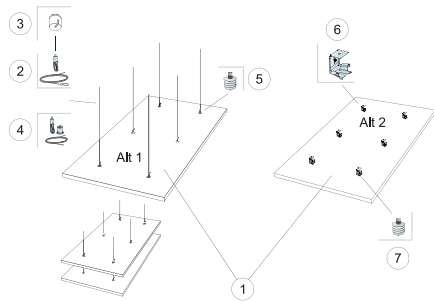
**Mechanical properties:** The tile can take both point loads and distributed loads. See Functional demands, Mechanical properties at [www.ecophon.com](http://www.ecophon.com).

**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 in detail [www.ecophon.com](http://www.ecophon.com)

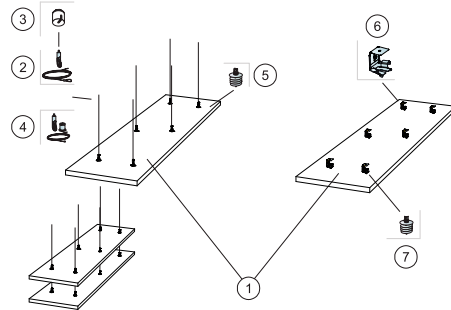
### M404

Installation diagram (M404) for Ecophon Solo Rectangle 1800x1200



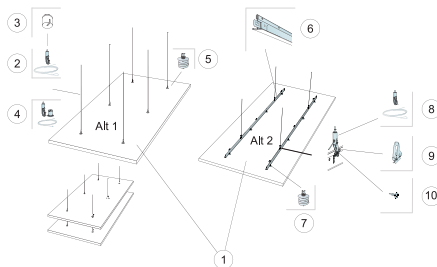
### M405

Installation diagram (M405) for Ecophon Solo Rectangle 2400x600



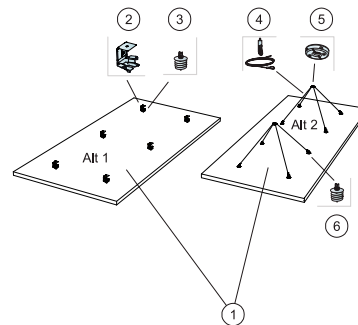
### M406

Installation diagram (M406) for Ecophon Solo Rectangle 2400x1200



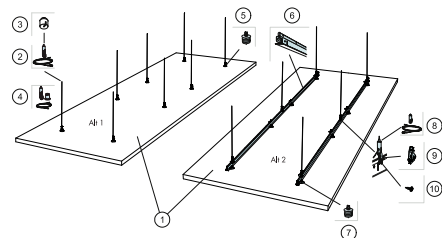
### M407

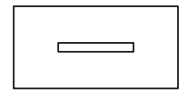
Installation diagram (M407) for Ecophon Solo Rectangle 2400x1200



### M408

Installation diagram (M408) for Ecophon Solo Rectangle 3000x1200





# Ecophon Solo™ Rectangle Line

**Acoustic:** For acoustic data on the panel - please see Solo Rectangle.

**Electrical data:** 220-240 V, 50-60 Hz, power factor  $\cos \phi > 0,98$ . Electronic HF ballast or electronic HF dim ballast for digital regulation. Light source: 1 led module of 30W total. Also available as emergency light, with a battery pack for one hour.

**Connection:** The standard on/off electronic HF ballast delivered with 2,5 meters of cable 3x0,75 mm<sup>2</sup> and grounded plug. The SwitchDIM/DALI delivered without cable.

**Electrical approvals:** IP23, Class 1.

**Indoor Air Quality:** French VOC, A+. Finnish M1.

**Fire safety:** The glass wool core of the tiles is tested and classified as non-combustible according to EN ISO 1182. Europe. EN 13501-1. A2-s1,d0

**Humidity Resistance:** Class A, relative humidity 70% and 25°C, according to EN 13964:2014

**Visual appearance:** White Frost, nearest NCS colour sample S 0500-N, 85% light reflectance. Gloss < 1.

**Cleanability:** Daily dusting and vacuum cleaning. Weekly wet wiping.

**Accessibility:** The tiles are demountable.

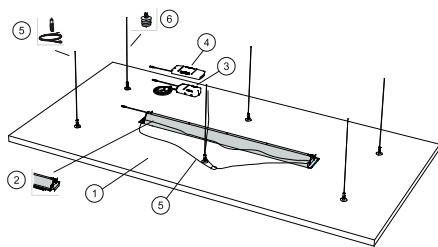
**Installation:** Installed according to installation diagrams, installation guides and drawing aid. For information regarding minimum overall depth of system see quantity specification.

**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 in detail [www.ecophon.com](http://www.ecophon.com)

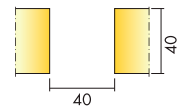
### M421

Installation diagram (M421) for Ecophon Solo Rectangle Line









# Ecophon Solo™ Matrix

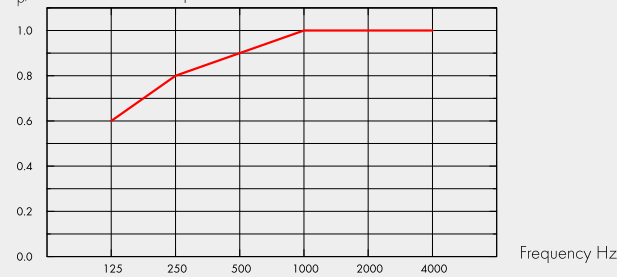
## Acoustic

The first diagram refers to clusters >10 m<sup>2</sup>. The second diagram to a cluster of four panels (1200x1040 mm) in a row with a distance of 40 mm. If the clusters are arranged with distances between the clusters <0,5 meters, the Aeq per cluster will be slightly reduced.

### Sound Absorption:

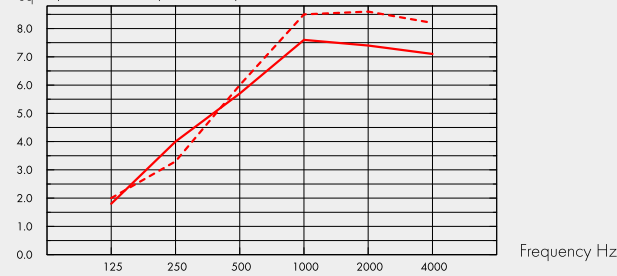
Test results according to EN ISO 354. Classification according to EN ISO 11654.

$\alpha_p$ , Practical sound absorption coefficient



— Solo Matrix 40 mm, 300 mm o.d.s.  
o.d.s = overall depth of system

A<sub>eq</sub>, Equivalent absorption area per unit (m<sup>2</sup> sabin)



— Solo Matrix 40 mm, 300 mm o.d.s.  
- - - Solo Matrix 40 mm, 600 mm o.d.s.  
o.d.s = overall depth of system

| THK<br>mm | o.d.s. mm | $\alpha_p$ , Practical sound absorption coefficient |        |        |         |         |         | $\alpha_w$ | Sound absorption class |
|-----------|-----------|---|--------|--------|---------|---------|---------|------------|------------------------|
|           |           | 125 Hz  | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz |            |                        |
| 40        | 300       | 0.60  | 0.80   | 0.90   | 1.00    | 1.00    | 1.00    | A          |                        |

| THK<br>mm | o.d.s. mm | A <sub>eq</sub> , Equivalent absorption area per unit (m <sup>2</sup> sabin) |        |        |         |         |         |
|-----------|-----------|--|--------|--------|---------|---------|---------|
|           |           | 125 Hz   | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz |
| 40        | 300       | 1.8  | 4.0    | 5.7    | 7.6     | 7.4     | 7.1     |
| 40        | 600       | 2.0  | 3.3    | 6.0    | 8.5     | 8.6     | 8.2     |

**Indoor Air Quality:** French VOC, A+. Finnish M1.

**Environmental Footprint:** Kg CO<sub>2</sub> equiv/m<sup>2</sup>: 5,79 From EPD in conformity with ISO 14025 / EN 15804

**Circularity:** Fully recyclable

**Fire safety:** The glass wool core of the tiles is tested and classified as non-combustible according to EN ISO 1182. Europe. EN 13501-1. A2-s1,d0

**Humidity Resistance:** Class A, relative humidity 70% and 25°C, according to EN 13964:2014

**Visual appearance:** White Frost, nearest NCS colour sample S 0500-N, 85% light reflectance. Gloss < 1.

**Cleanability:** Daily dusting and vacuum cleaning. Weekly wet wiping.

**Accessibility:** Each panel is individually demountable from below. Panels are equipped with hatch function.

**Installation:** For design possibilities including installation direction and integrations, see installation guides, installation diagrams and drawing aid. For information regarding minimum overall depth of system see quantity specification.

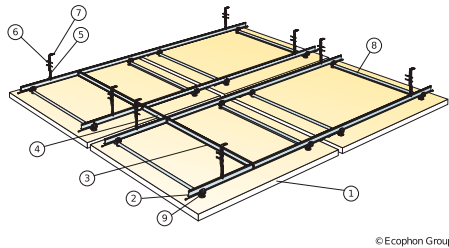
**Mechanical properties:** The panels can take small loads with largest aperture diameter of 100 mm. The load is restricted to maximum 250g between two Panel cross bars. For heavier loads see Installation guide.

**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 in detail [www.ecophon.com](http://www.ecophon.com)

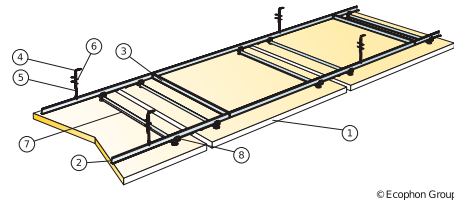
#### M501

Installation diagram (M501) for Ecophon Solo Matrix



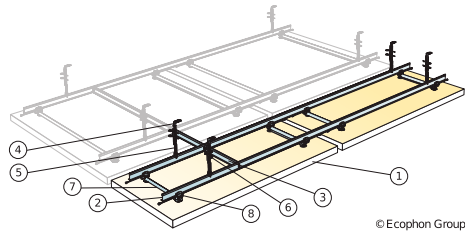
#### M502

Installation diagram (M502) for Ecophon Solo Matrix in rows

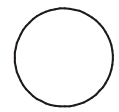


#### M503

Installation diagram (M503) for Ecophon Solo Matrix







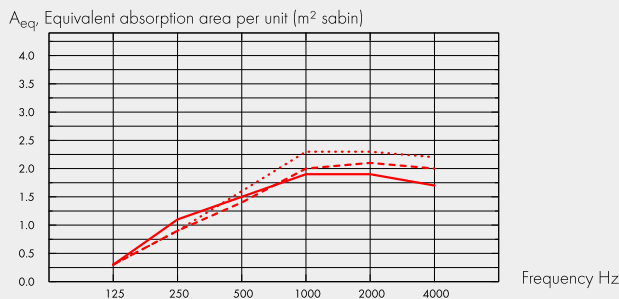
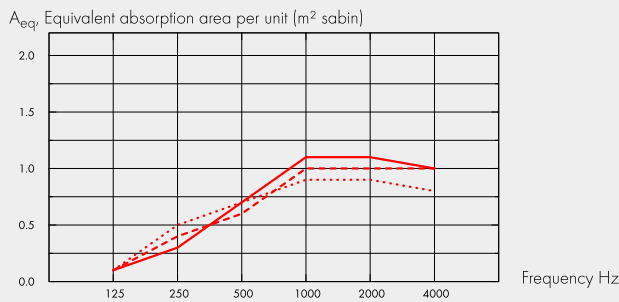
# Ecophon Solo™ Circle

## Acoustic

The values in the diagram refer to a single unit. If the units are arranged in a cluster with distances between units less than 0,5 meters, the Aeq per unit will be slightly reduced.

### Sound Absorption:

Test results according to EN ISO 354.



|      | THK mm | o.d.s. mm | A <sub>eq</sub> Equivalent absorption area per unit (m <sup>2</sup> sabin) |        |        |         |         |         |
|------|--------|-----------|--|--------|--------|---------|---------|---------|
|      |        |           | 125 Hz   | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz |
| Ø800 | 40     | 200       | 0.1  | 0.3    | 0.7    | 1.1     | 1.1     | 1.0     |
| Ø800 | 40     | 400       | 0.1  | 0.4    | 0.6    | 1.0     | 1.0     | 1.0     |
| Ø800 | 40     | 1000      | 0.1  | 0.5    | 0.7    | 0.9     | 0.9     | 0.8     |

|       | THK mm | o.d.s. mm | A <sub>eq</sub> Equivalent absorption area per unit (m <sup>2</sup> sabin) |        |        |         |         |         |
|-------|--------|-----------|--|--------|--------|---------|---------|---------|
|       |        |           | 125 Hz   | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz |
| Ø1200 | 40     | 200       | 0.3  | 1.1    | 1.5    | 1.9     | 1.9     | 1.7     |
| Ø1200 | 40     | 400       | 0.3  | 0.9    | 1.4    | 2.0     | 2.1     | 2.0     |
| Ø1200 | 40     | 1000      | 0.3  | 0.9    | 1.6    | 2.3     | 2.3     | 2.2     |

**Indoor Air Quality:** French VOC, A+. Finnish M1.

**Environmental Footprint:** Kg CO<sub>2</sub> equiv/m<sup>2</sup>: 8,07 From EPD in conformity with ISO 14025 / EN 15804

**Circularity:** Fully recyclable

**Fire safety:** The glass wool core of the tiles is tested and classified as non-combustible according to EN ISO 1182. Europe. EN 13501-1. A2-s1,d0

**Humidity Resistance:** Class A, relative humidity 70% and 25°C, according to EN 13964:2014

**Visual appearance:** White Frost, nearest NCS colour sample S 0500-N, 85% light reflectance. Gloss < 1.

**Cleanability:** Daily dusting and vacuum cleaning. Weekly wet wiping.

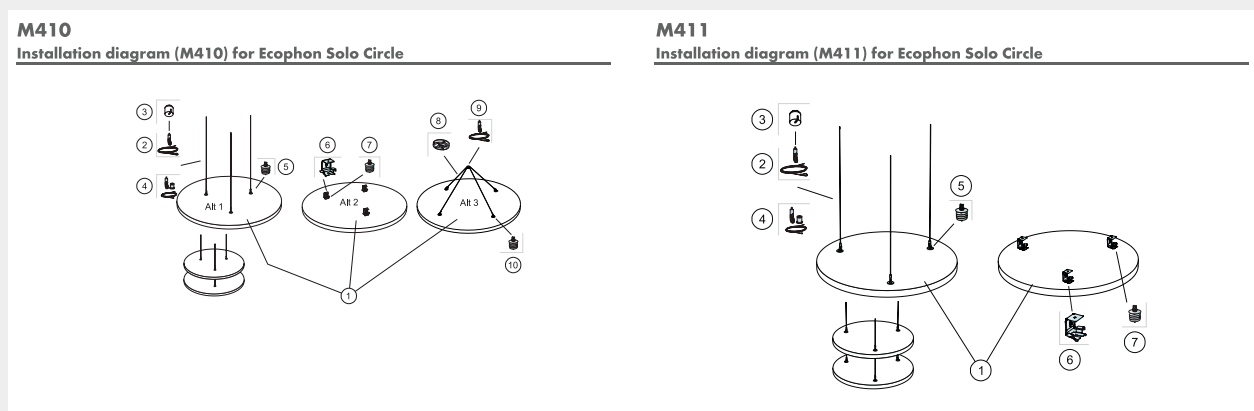
**Accessibility:** The tiles are demountable.

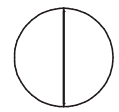
**Installation:** Installed according to installation diagrams, installation guides and drawing aid. For information regarding minimum overall depth of system see quantity specification.

**Mechanical properties:** The tile can take both point loads and distributed loads. See Functional demands, Mechanical properties at [www.ecophon.com](http://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 in detail [www.ecophon.com](http://www.ecophon.com)





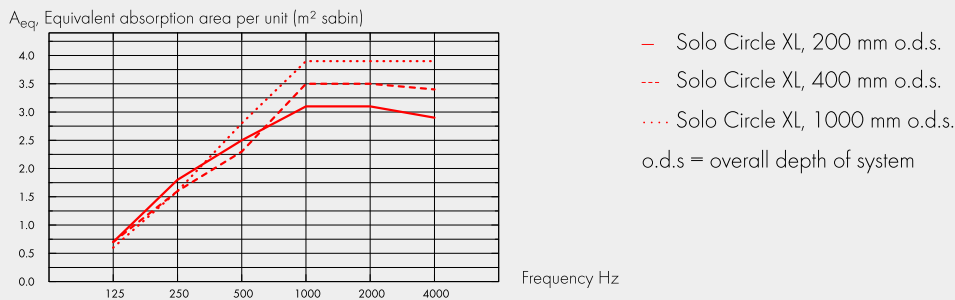
# Ecophon Solo™ Circle XL

## Acoustic

The values in the diagram refer to a single unit. If the units are arranged in a cluster with distances between units less than 0,5 meters, the Aeq per unit will be slightly reduced.

### Sound Absorption:

Test results according to EN ISO 354.



| THK<br>mm | o.d.s. mm | A <sub>eq</sub> Equivalent absorption area per unit (m <sup>2</sup> sabin) |        |        |         |         |         |
|-----------|-----------|--|--------|--------|---------|---------|---------|
|           |           | 125 Hz   | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz |
| 40        | 200       | 0.7  | 1.8    | 2.5    | 3.1     | 3.1     | 2.9     |
| 40        | 400       | 0.7  | 1.6    | 2.3    | 3.5     | 3.5     | 3.4     |
| 40        | 1000      | 0.6  | 1.6    | 2.8    | 3.9     | 3.9     | 3.9     |

**Indoor Air Quality:** French VOC, A+. Finnish M1.

**Circularity:** Fully recyclable

**Fire safety:** The glass wool core of the tiles is tested and classified as non-combustible according to EN ISO 1182. Europe. EN 13501-1. A2-s1,d0

**Humidity Resistance:** Class A, relative humidity 70% and 25°C, according to EN 13964:2014

**Visual appearance:** White Frost, nearest NCS colour sample S 0500-N, 85% light reflectance. Gloss < 1.

**Cleanability:** Daily dusting and vacuum cleaning. Weekly wet wiping.

**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.

**Mechanical properties:** No additional live load is allowed.

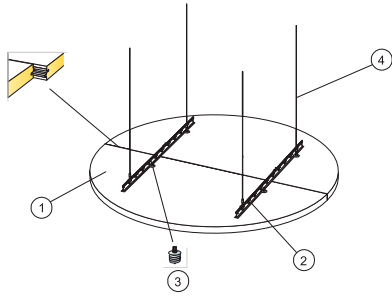
**CE:** Ecophon ceiling systems are CE marked according to the European harmonized standard EN13964:2014. CE marked construction products are covered by a Declaration of Performance (DOP) which enables customers and users to easily compare performance of products available on the European market.



**M290**

Installation diagram (M290) for Ecophon Solo Circle XL

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# Ecophon Solo™ Freedom

**Acoustic:** For acoustic data on the panel - please see Solo Square and Rectangle.

**Indoor Air Quality:** French VOC, A+. Finnish M1.

**Environmental Footprint:** Kg CO<sub>2</sub> equiv/m<sup>2</sup>: 8,07 From EPD in conformity with ISO 14025 / EN 15804

**Circularity:** Fully recyclable

**Fire safety:** The glass wool core of the tiles is tested and classified as non-combustible according to EN ISO 1182. Europe. EN 13501-1. A2-s1,d0

**Humidity Resistance:** Class A, relative humidity 70% and 25°C, according to EN 13964:2014

**Visual appearance:** White Frost, nearest NCS colour sample S 0500-N, 85% light reflectance. Gloss < 1.

**Cleanability:** Daily dusting and vacuum cleaning. Weekly wet wiping.

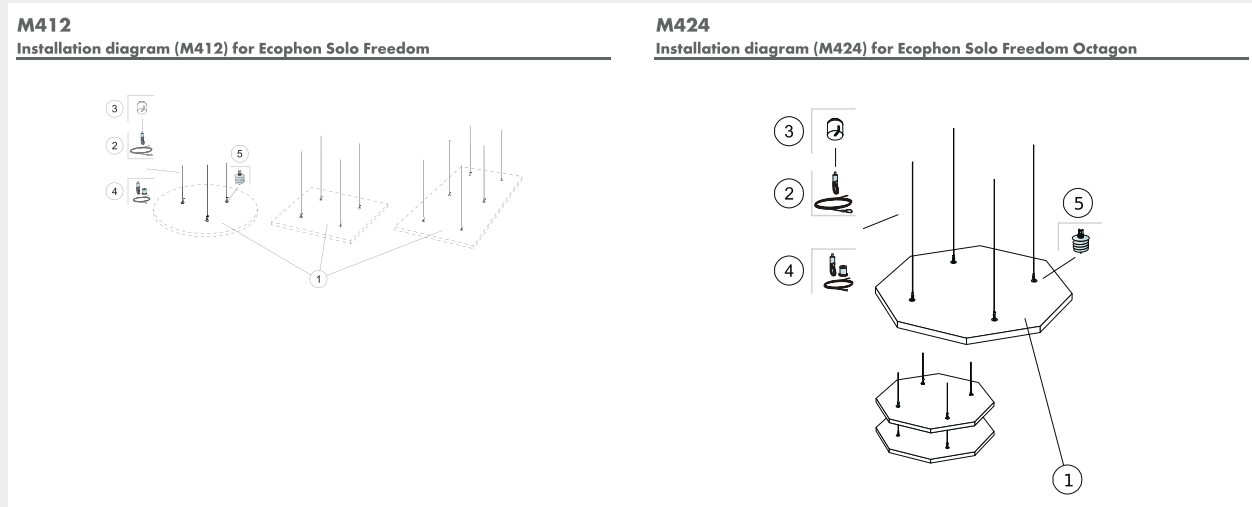
**Accessibility:** The tiles are demountable.

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

**Mechanical properties:** The tile can take both point loads and distributed loads. See Functional demands, Mechanical properties at [www.ecophon.com](http://www.ecophon.com).

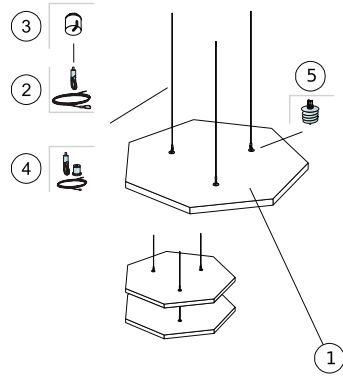
**CE:** Ecophon ceiling systems are CE marked according to the European harmonized standard EN13964:2014. CE marked construction products are covered by a Declaration of Performance (DOP) which enables customers and users to easily compare performance of products available on the European market.

## Installation diagram in detail [www.ecophon.com](http://www.ecophon.com)



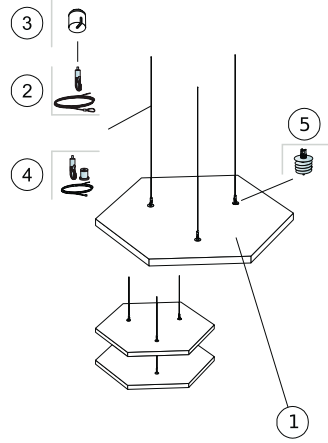
**M425**

Installation diagram (M425) for Ecophon Solo Heptagon



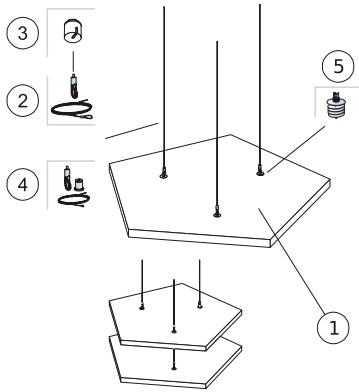
**M426**

Installation diagram (M426) for Ecophon Solo Hexagon



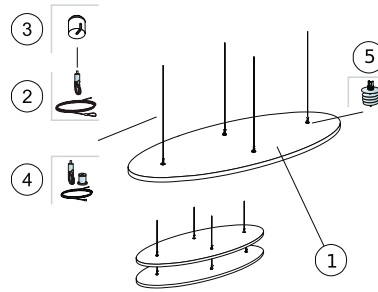
**M427**

Installation diagram (M427) for Ecophon Solo Pentagon



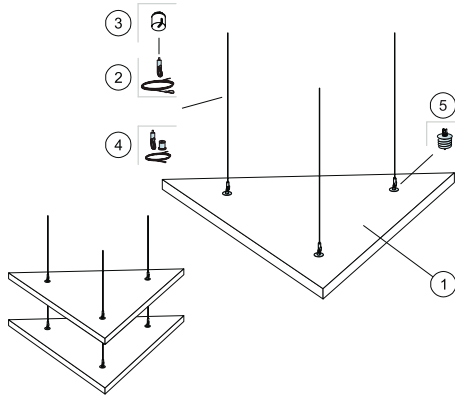
**M428**

Installation diagram (M428) for Ecophon Solo Ellipse



**M297**

Installation diagram (M297) for Ecophon Solo Triangle





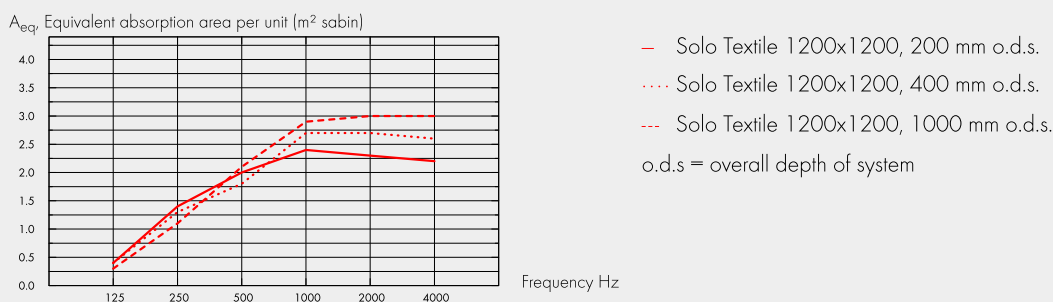
# Ecophon Solo™ Textile

## Acoustic

The values in the diagram refer to a single unit. If the units are arranged in a cluster with distances between units less than 0,5 meters, the Aeq per unit will be slightly reduced.

### Sound Absorption:

Test results according to EN ISO 354.



|           | THK<br>mm | o.d.s. mm | A <sub>eq</sub> Equivalent absorption area per unit (m <sup>2</sup> sabin) |        |        |         |         |         |
|-----------|-----------|-----------|--|--------|--------|---------|---------|---------|
|           |           |           | 125 Hz   | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz |
| 1200x1200 | 40        | 200       | 0.4  | 1.4    | 2.0    | 2.4     | 2.3     | 2.2     |
| 1200x1200 | 40        | 400       | 0.4  | 1.3    | 1.8    | 2.7     | 2.7     | 2.6     |
| 1200x1200 | 40        | 1000      | 0.3  | 1.1    | 2.1    | 2.9     | 3.0     | 3.0     |

**Indoor Air Quality:** French VOC, A.

**Circularity:** Fully recyclable

**Fire safety:** The glass wool core of the tiles is tested and classified as non-combustible according to EN ISO 1182. Europe. EN 13501-1. B-s1,d0

**Humidity Resistance:** Class A, relative humidity 70% and 25°C, according to EN 13964:2014

**Visual appearance:** Light reflectance and nearest NCS colour sample for all the different colours: See Ecophon Colours and surfaces. (The tiles need to be installed in accordance with the installation guide in order to get optimal visual appearance).

**Cleanability:** Weekly dusting and vacuum cleaning.

**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.

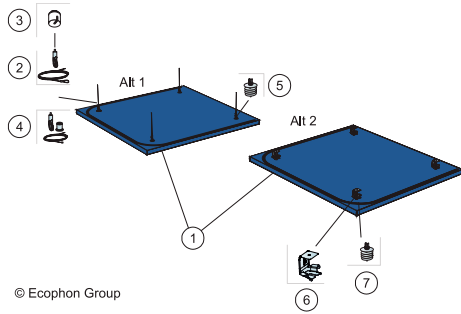
**Mechanical properties:** No additional live load is allowed.

**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.

**M482**

Installation diagram (M482) for Ecophon Solo Textile

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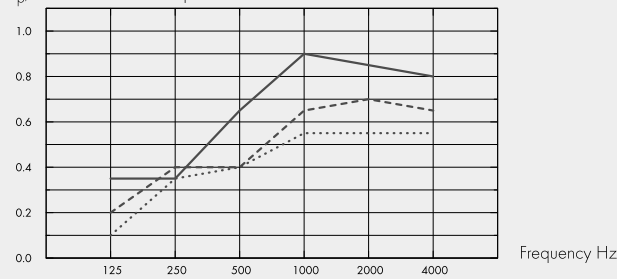
# Ecophon Solo™ Baffle

## Acoustic

### Sound Absorption:

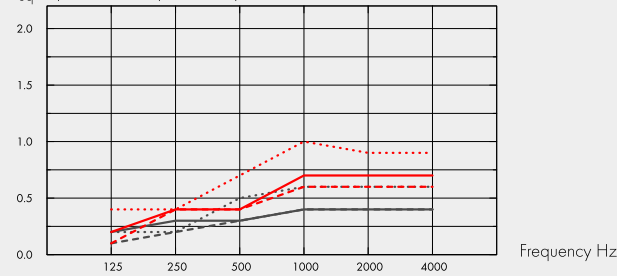
Test results according to EN ISO 354:2003 NOTE: Results shown are not comparable with results according to older versions of this standard due to discrepancies in test method. Classification according to EN ISO 11654, and the single value ratings for Noise Reduction Coefficient, NRC and Sound Absorption Average, SAA according to ASTM C 423.

$\alpha_p$ , Practical sound absorption coefficient



- ..... Solo Baffle 1200/1800x200, spacing 600mm, direct mounting
  - Solo Baffle 1200/1800x300, spacing 600mm, direct mounting
  - Solo Baffle 1200/1800x600, spacing 600mm, direct mounting
- o.d.s = overall depth of system

$A_{eq}$ , Equivalent absorption area per unit (m<sup>2</sup> sabin)



- Solo Baffle 1200x200
  - Solo Baffle 1200x300
  - ..... Solo Baffle 1200x600
  - .-.- Solo Baffle 1800x200
  - - - Solo Baffle 1800x300
  - .-. Solo Baffle 1800x600
- o.d.s = overall depth of system

|      | THK mm | o.d.s. mm | $\alpha_p$ , Practical sound absorption coefficient |        |        |         |         |         | $\alpha_w$ |
|------|--------|-----------|---|--------|--------|---------|---------|---------|------------|
|      |        |           | 125 Hz  | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz |            |
| c600 | 40     | 200       | 0.10  | 0.35   | 0.40   | 0.55    | 0.55    | 0.55    | 0.50       |
| c600 | 40     | 300       | 0.20  | 0.40   | 0.40   | 0.65    | 0.70    | 0.65    | 0.50       |
| c600 | 40     | 600       | 0.35  | 0.35   | 0.65   | 0.90    | 0.85    | 0.80    | 0.65       |

|              | THK mm | o.d.s. mm | $A_{eq}$ , Equivalent absorption area per unit (m <sup>2</sup> sabin) |        |        |         |         |         |
|--------------|--------|-----------|---|--------|--------|---------|---------|---------|
|              |        |           | 125 Hz  | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz |
| 1200x200c600 | 40     | 200       | 0.1   | 0.2    | 0.3    | 0.4     | 0.4     | 0.4     |
| 1200x300c600 | 40     | 300       | 0.2   | 0.3    | 0.3    | 0.4     | 0.4     | 0.4     |
| 1200x600c600 | 40     | 600       | 0.2   | 0.2    | 0.5    | 0.6     | 0.6     | 0.6     |
| 1800x200c600 | 40     | 200       | 0.1   | 0.4    | 0.4    | 0.6     | 0.6     | 0.6     |
| 1800x300c600 | 40     | 300       | 0.2   | 0.4    | 0.4    | 0.7     | 0.7     | 0.7     |
| 1800x600c600 | 40     | 600       | 0.4   | 0.4    | 0.7    | 1.0     | 0.9     | 0.9     |

**Indoor Air Quality:** French VOC, A+. Finnish M1.



**Environmental Footprint:** Kg CO<sub>2</sub> equiv/m<sup>2</sup>: 8,07 From EPD in conformity with ISO 14025 / EN 15804

**Circularity:** Fully recyclable

**Fire safety:** The glass wool core of the tiles is tested and classified as non-combustible according to EN ISO 1182. Europe. EN 13501-1. A2-s1,d0

**Humidity Resistance:** Class A, relative humidity 70% and 25°C, according to EN 13964:2014

**Visual appearance:** White Frost, nearest NCS colour sample S 0500-N, 85% light reflectance. Gloss < 1.

**Cleanability:** Daily dusting and vacuum cleaning. Weekly wet wiping.

**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.

**Mechanical properties:** Additional live load has to be fixed to the soffit.

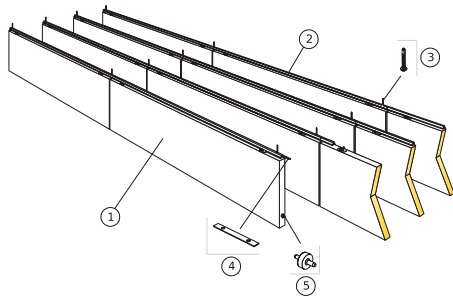
**CE:** Ecophon ceiling systems are CE marked according to the European harmonized standard EN13964:2014. CE marked construction products are covered by a Declaration of Performance (DOP) which enables customers and users to easily compare performance of products available on the European market.

### Installation diagram in detail [www.ecophon.com](http://www.ecophon.com)

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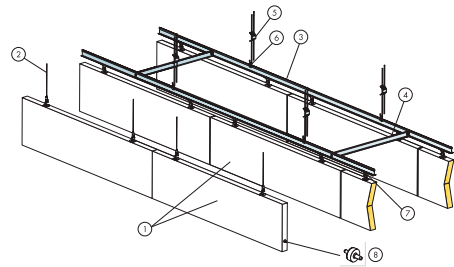
#### M414

Installation diagram (M414) for Ecophon Solo Baffle/anchor

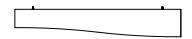


#### M491

Installation diagram (M491) for Ecophon Solo Baffle/hook



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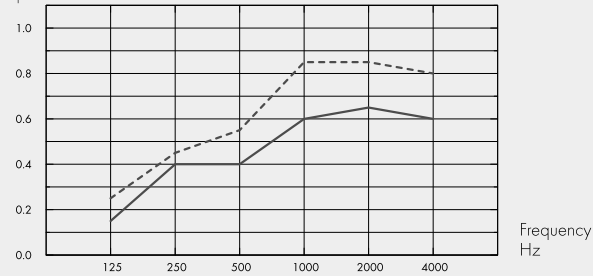
# Ecophon Solo™ Baffle Wave

## Acoustic

### Sound Absorption:

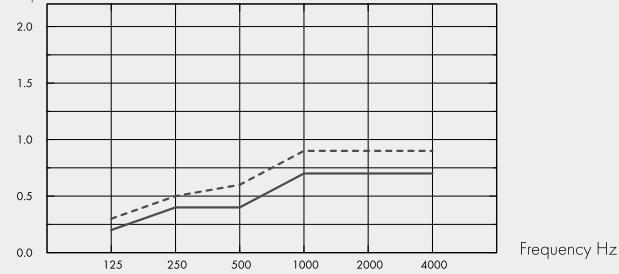
Test results according to EN ISO 354:2003 NOTE: Results shown are not comparable with results according to older versions of this standard due to discrepancies in test method. Classification according to EN ISO 11654, and the single value ratings for Noise Reduction Coefficient, NRC and Sound Absorption Average, SAA according to ASTM C 423.

$\alpha_p$ , Practical sound absorption coefficient



- Solo Baffle Wave 1800x300/200, spacing 600, direct mounting
  - Solo Baffle Wave 1800x600/300, spacing 600, direct mounting
- o.d.s = overall depth of system

$A_{eq}$ , Equivalent absorption area per unit (m<sup>2</sup> sabin)



- Solo Baffle Wave 1800x300/200
  - Solo Baffle Wave 1800x600/300
- o.d.s = overall depth of system

|      | THK mm | o.d.s. mm | $A_{eq}$ Equivalent absorption area per unit (m <sup>2</sup> sabin) |        |        |         |         |         |
|------|--------|-----------|---|--------|--------|---------|---------|---------|
|      |        |           | 125 Hz  | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz |
| c600 | 40     | 200       | 0.2   | 0.4    | 0.4    | 0.7     | 0.7     | 0.7     |
| c600 | 40     | 300       | 0.3   | 0.5    | 0.6    | 0.9     | 0.9     | 0.9     |

|      | THK mm | o.d.s. mm | $\alpha_p$ , Practical sound absorption coefficient |        |        |         |         |         | $\alpha_w$ |
|------|--------|-----------|---|--------|--------|---------|---------|---------|------------|
|      |        |           | 125 Hz  | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz |            |
| c600 | 40     | 200       | 0.15  | 0.40   | 0.40   | 0.60    | 0.65    | 0.60    | 0.50       |
| c600 | 40     | 300       | 0.25  | 0.45   | 0.55   | 0.85    | 0.85    | 0.80    | 0.65       |

|      | THK mm | o.d.s. mm | NRC  | SAA  |
|------|--------|-----------|------|------|
| c600 | 40     | 200       | 0.50 | 0.52 |
| c600 | 40     | 300       | 0.70 | 0.68 |

**Indoor Air Quality:** French VOC, A+. Finnish M1.

**Environmental Footprint:** Kg CO<sub>2</sub> equiv/m<sup>2</sup>: 8,07 From EPD in conformity with ISO 14025 / EN 15804

**Circularity:** Fully recyclable

**Fire safety:** The glass wool core of the tiles is tested and classified as non-combustible according to EN ISO 1182. Europe. EN 13501-1. A2-s1,d0

**Humidity Resistance:** Class A, relative humidity 70% and 25°C, according to EN 13964:2014

**Visual appearance:** White Frost, nearest NCS colour sample S 0500-N, 85% light reflectance. Gloss < 1.

**Cleanability:** Daily dusting and vacuum cleaning. Weekly wet wiping.

**Accessibility:** The tiles are demountable.

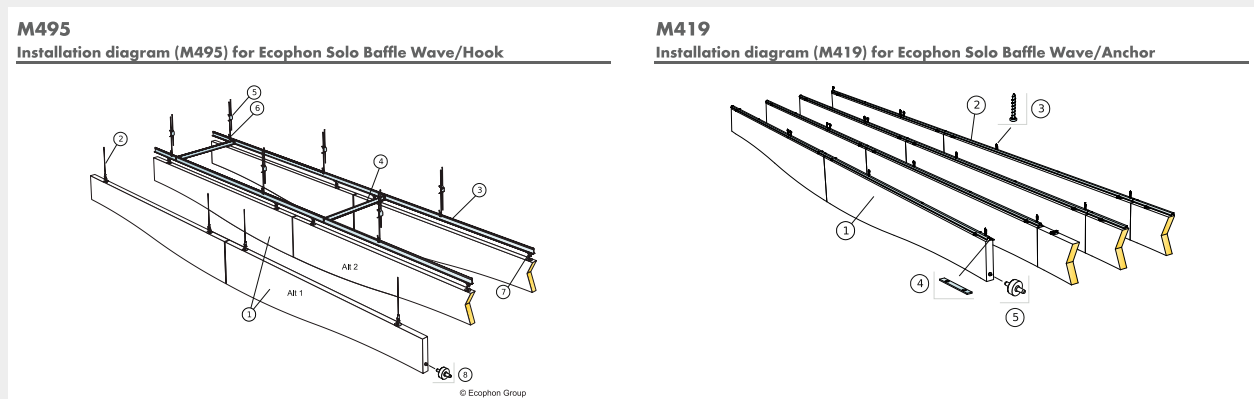
**Installation:** Installed according to installation diagrams, installation guides and drawing aid. For information regarding minimum overall depth of system see quantity specification.

**Mechanical properties:** Additional live load has to be fixed to the soffit.

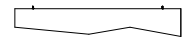
**CE:** Ecophon ceiling systems are CE marked according to the European harmonized standard EN13964:2014. CE marked construction products are covered by a Declaration of Performance (DOP) which enables customers and users to easily compare performance of products available on the European market.

### Installation diagram in detail [www.ecophon.com](http://www.ecophon.com)

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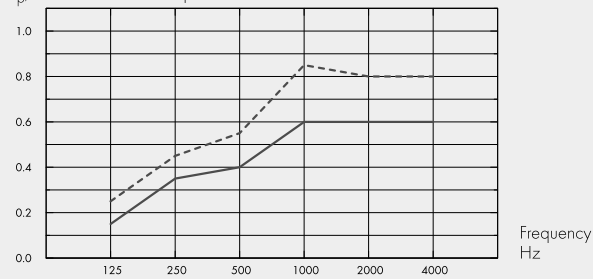
# Ecophon Solo™ Baffle ZigZag

## Acoustic

### Sound Absorption:

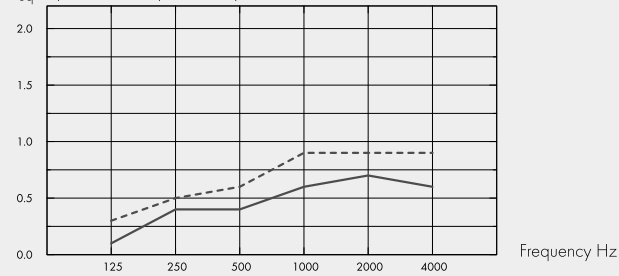
Test results according to EN ISO 354:2003 NOTE: Results shown are not comparable with results according to older versions of this standard due to discrepancies in test method. Classification according to EN ISO 11654, and the single value ratings for Noise Reduction Coefficient, NRC and Sound Absorption Average, SAA according to ASTM C 423.

$\alpha_p$ , Practical sound absorption coefficient



- Solo Baffle ZigZag 1800x300/200, spacing 600, direct mounting
- Solo Baffle ZigZag 1800x600/300, spacing 600, direct mounting
- o.d.s = overall depth of system

$A_{eq}$ , Equivalent absorption area per unit (m<sup>2</sup> sabin)



- Solo Baffle ZigZag 1800x300/200
- Solo Baffle ZigZag 1800x600/300
- o.d.s = overall depth of system

|      | THK mm | o.d.s. mm | $\alpha_p$ , Practical sound absorption coefficient |        |        |         |         |         | $\alpha_w$ |
|------|--------|-----------|---|--------|--------|---------|---------|---------|------------|
|      |        |           | 125 Hz  | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz |            |
| c600 | 40     | 200       | 0.15  | 0.35   | 0.40   | 0.60    | 0.60    | 0.60    | 0.50       |
| c600 | 40     | 300       | 0.25  | 0.45   | 0.55   | 0.85    | 0.80    | 0.80    | 0.65       |

|      | THK mm | o.d.s. mm | $A_{eq}$ , Equivalent absorption area per unit (m <sup>2</sup> sabin) |        |        |         |         |         |
|------|--------|-----------|---|--------|--------|---------|---------|---------|
|      |        |           | 125 Hz  | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz |
| c600 | 40     | 200       | 0.1   | 0.4    | 0.4    | 0.6     | 0.7     | 0.6     |
| c600 | 40     | 300       | 0.3   | 0.5    | 0.6    | 0.9     | 0.9     | 0.9     |

|      | THK mm | o.d.s. mm | NRC  | SAA  |
|------|--------|-----------|------|------|
| c600 | 40     | 200       | 0.50 | 0.49 |
| c600 | 40     | 300       | 0.65 | 0.65 |

**Indoor Air Quality:** French VOC, A+. Finnish M1.

**Environmental Footprint:** Kg CO<sub>2</sub> equiv/m<sup>2</sup>: 8,07 From EPD in conformity with ISO 14025 / EN 15804

**Circularity:** Fully recyclable

**Fire safety:** The glass wool core of the tiles is tested and classified as non-combustible according to EN ISO 1182. Europe. EN 13501-1. A2-s1,d0

**Humidity Resistance:** Class A, relative humidity 70% and 25°C, according to EN 13964:2014

**Visual appearance:** White Frost, nearest NCS colour sample S 0500-N, 85% light reflectance. Gloss < 1.

**Cleanability:** Daily dusting and vacuum cleaning. Weekly wet wiping.

**Accessibility:** The tiles are demountable.

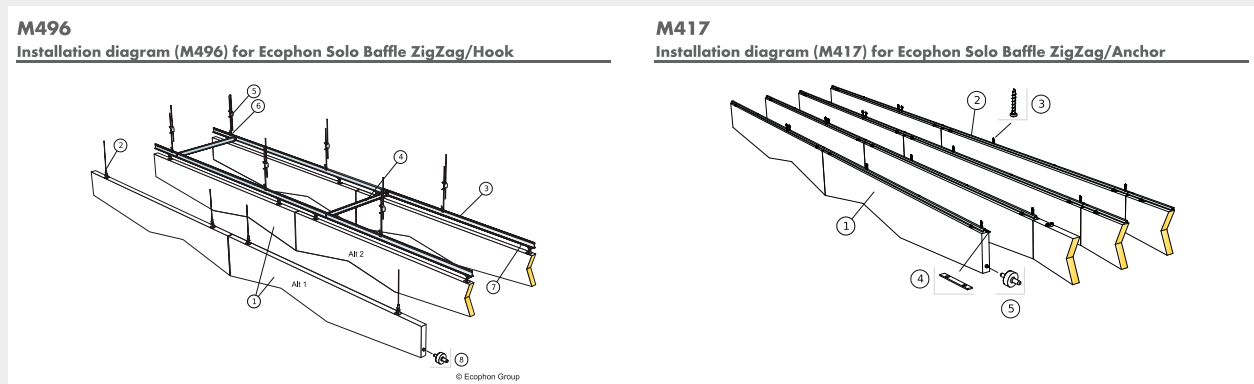
**Installation:** Installed according to installation diagrams, installation guides and drawing aid. For information regarding minimum overall depth of system see quantity specification.

**Mechanical properties:** Additional live load has to be fixed to the soffit.

**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 in detail [www.ecophon.com](http://www.ecophon.com)

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# Ecophon Solo™ Baffle Wall

**Acoustic:** For acoustic data on the Baffle - please see Solo Baffle.

**Indoor Air Quality:** French VOC, A+. Finnish M1.

**Environmental Footprint:** Kg CO<sub>2</sub> equiv/m<sup>2</sup>: 8,07 From EPD in conformity with ISO 14025 / EN 15804

**Circularity:** Fully recyclable

**Fire safety:** The glass wool core of the tiles is tested and classified as non-combustible according to EN ISO 1182. Europe. EN 13501-1. A2-s1,d0

**Humidity Resistance:** Class A, relative humidity 70% and 25°C, according to EN 13964:2014

**Visual appearance:** White Frost, nearest NCS colour sample S 0500-N, 85% light reflectance. Gloss < 1.

**Cleanability:** Daily dusting and vacuum cleaning. Weekly wet wiping.

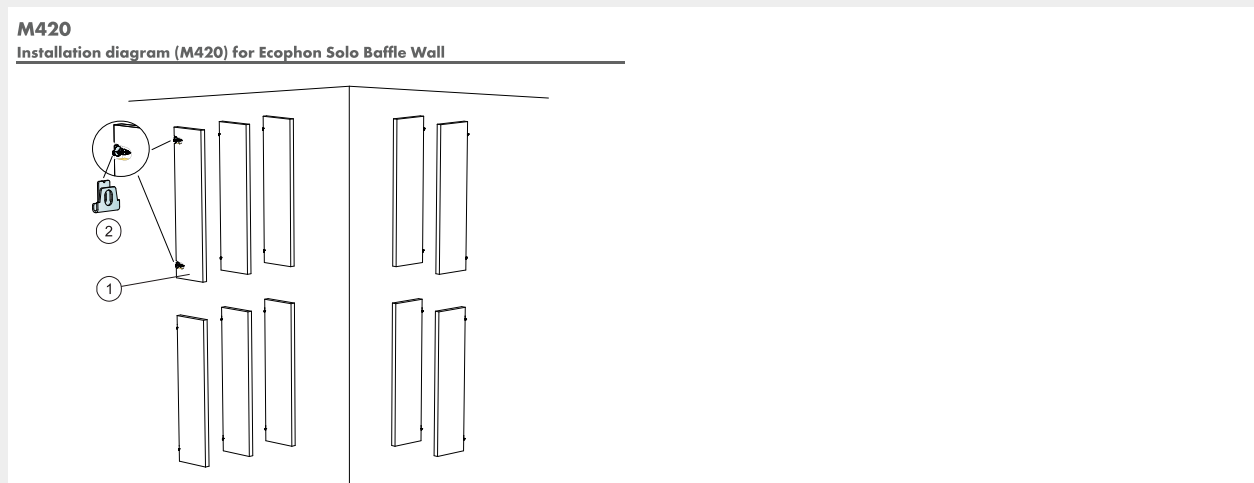
**Accessibility:** The tiles are demountable.

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

**Mechanical properties:** Additional live load has to be fixed to the soffit.

**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 in detail [www.ecophon.com](http://www.ecophon.com)







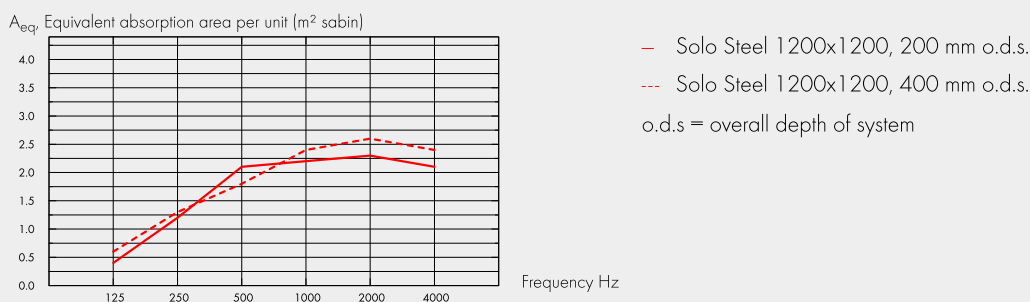
# Ecophon Solo™ Steel

## Acoustic

The values in the diagram refer to a single unit. If the units are arranged in a cluster with distances between units less than 0,5 meters, the Aeq per unit will be slightly reduced.

### Sound Absorption:

Test results according to EN ISO 354.



| THK<br>mm | o.d.s. mm | A <sub>eq</sub> Equivalent absorption area per unit (m <sup>2</sup> sabin) |        |        |         |         |         |
|-----------|-----------|--|--------|--------|---------|---------|---------|
|           |           | 125 Hz   | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz |
| 40        | 200       | 0.4  | 1.2    | 2.1    | 2.2     | 2.3     | 2.1     |
| 40        | 400       | 0.6  | 1.3    | 1.8    | 2.4     | 2.6     | 2.4     |

**Indoor Air Quality:** French VOC, A+.

**Circularity:** Fully recyclable

**Fire safety:** The glass wool core of the tiles is tested and classified as non-combustible according to EN ISO 1182. Europe. EN 13501-1. A2-s1,d0

**Humidity Resistance:** Class A, relative humidity 70% and 25°C, according to EN 13964:2014

**Visual appearance:** Light reflectance and nearest NCS colour sample for all the different colours: See Ecophon Colours and surfaces. (The tiles need to be installed in accordance with the installation guide in order to get optimal visual appearance).

**Cleanability:** Daily dusting and vacuum cleaning. Weekly wet wiping.

**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.

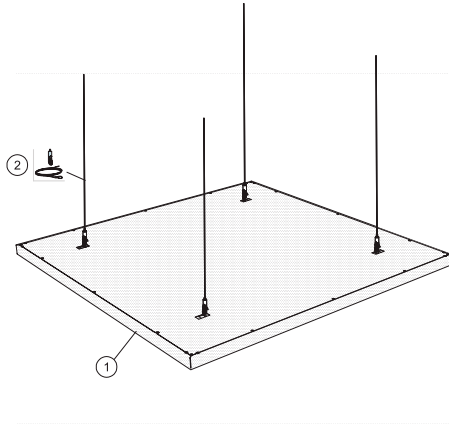
**Mechanical properties:** No additional live load is allowed.

**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.

**M512**

Installation diagram (M512) for Ecophon Solo Steel

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# Ecophon®

SAINT-GOBAIN

A SOUND EFFECT ON PEOPLE

Ecophon is the leading supplier of acoustic solutions. We contribute to healthier indoor environments, improving quality of life, wellbeing and working performance. As evolution has adapted the human senses to a life outdoors, our focus is to bring the ideal acoustic environments of nature into our modern indoor spaces. We know they will have a sound effect on people.



The principles guiding our work are grounded in our Swedish heritage, where a human approach and a common responsibility for people's lives and future challenges come naturally.

Ecophon is part of the Saint-Gobain Group, a world leader in sustainable habitat solutions. This is also one of the top 100 industrial groups in the world, constantly innovating to make living spaces more comfortable and cost-efficient. Saint-Gobain offer solutions to the major challenges of energy efficiency and environmental protection. No matter what new needs emerge in the habitat and construction markets, the future is made of Saint-Gobain.



[www.ecophon.com](http://www.ecophon.com)