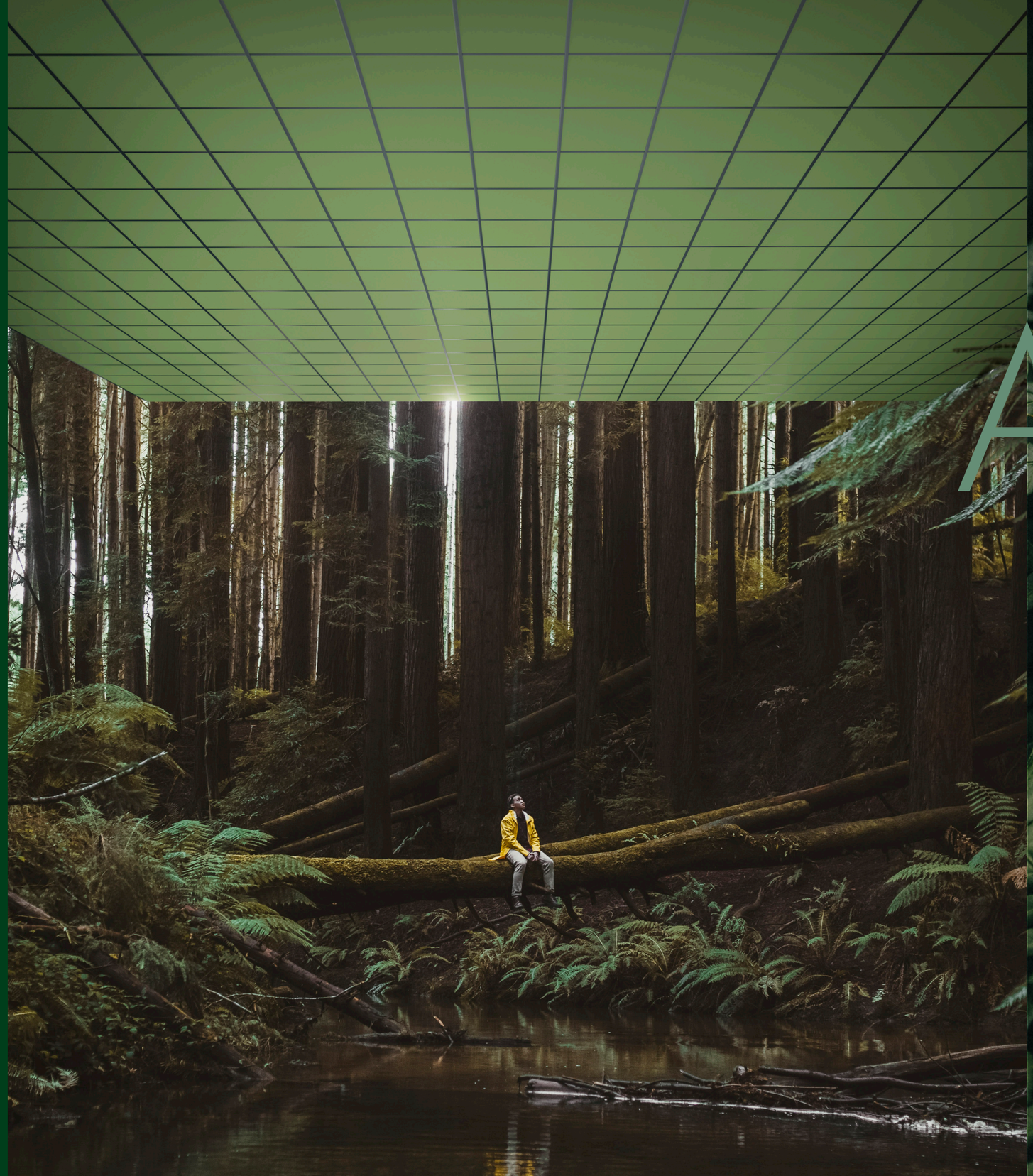
WHEN
CONDITIONS
ARE TOUGH

ECOPHON
SUPER G™

Ecophon
SAINT-GOBAIN

Contents

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 or contact your nearest Ecophon representative.



A sound effect

ON PEOPLE

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 designed around the natural evolution of human hearing – replicating the outdoor sound experience indoors, because that’s just better for people.

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

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.

And what exactly is an ideal indoor sound environment for people? One based on how we experience sound outside. The human auditory sense is naturally adapted to an outdoor environment where there is not any sound reflections from ceilings and walls.

That's why most of what we do at Ecophon is about replicating the acoustic qualities found in nature for indoor environments. We want to optimise indoor spaces to our natural way of hearing, so that speech and sound is easy to hear and understand, when needed, improving performance and wellbeing.

Usually that starts with the ceiling. A wall-to-wall acoustic ceiling is the easiest way to get a large sound-absorbing surface area into a space, and is usually the best way to reduce sound strength, shorten reverberation times, and increase speech clarity and overall hearing comfort.

But for a truly optimal sound environment, you'll also likely need different kinds of sound absorbers placed strategically throughout the space–wall-mounted panels and free-standing dividers are just two examples. In other words, a holistic approach is the best way to reduce the overall sound level and sound propagation in a room. Ecophon is here to help.

Building on

BETTER

Sustainability is more than a word – it's a collective movement to protect people and the planet that requires honest commitment and genuine care. That's why Ecophon is building on better materials, transparency, and principles, to name just a few.

We actively support an industry-wide drive to standardized, easy-access Environmental Product Declarations for individual products, rather than product families. Their inclusion of full lifecycle data, from raw material sourcing to end of life, rather than only the favorable stages. A move away from self-declared labels, or non-independently verified sustainability claims. And for any promises of net zero carbon emission targets to be validated by the Science-Based Targets initiative.

If we're going to build a sustainable future, it has to start with an honest approach, high ambition and the best of intentions – to build on better together.

Ecophon Super G™

Our acoustic absorber has minimum

42%

post-consumer recycled content

WHEN CONDITIONS ARE TOUGH

High demands regarding impact resistance do not have to mean a poor sound environment. Super G has different systems depending on the room activity and impact resistant requirements.

- Class A sound absorption
- Impact resistance grading between 1A-3A
- Both grid installations and direct fixing
- Light weight for easy handling

Ecophon Super G™ delivers powerful sound absorption in tough conditions. Choose Super G for school corridors, sports halls and other environments where there's a risk of mechanical impact. The robust systems have a low system weight which makes them easy to handle and install.

SUPER G™ PRODUCT RANGE

Super G offer solutions for environments where there is a need for extra robust sound absorption systems. The range includes suspended wall-to-wall ceilings and direct fixing solution with screws or glue adhesive for a quick and easy acoustic upgrade.

Ecophon Super G™ Plus A is developed for environments where maximum impact resistance is needed. The system has a robust grid system consisting of recessed profiles that is 1A classified for high mechanical impact.

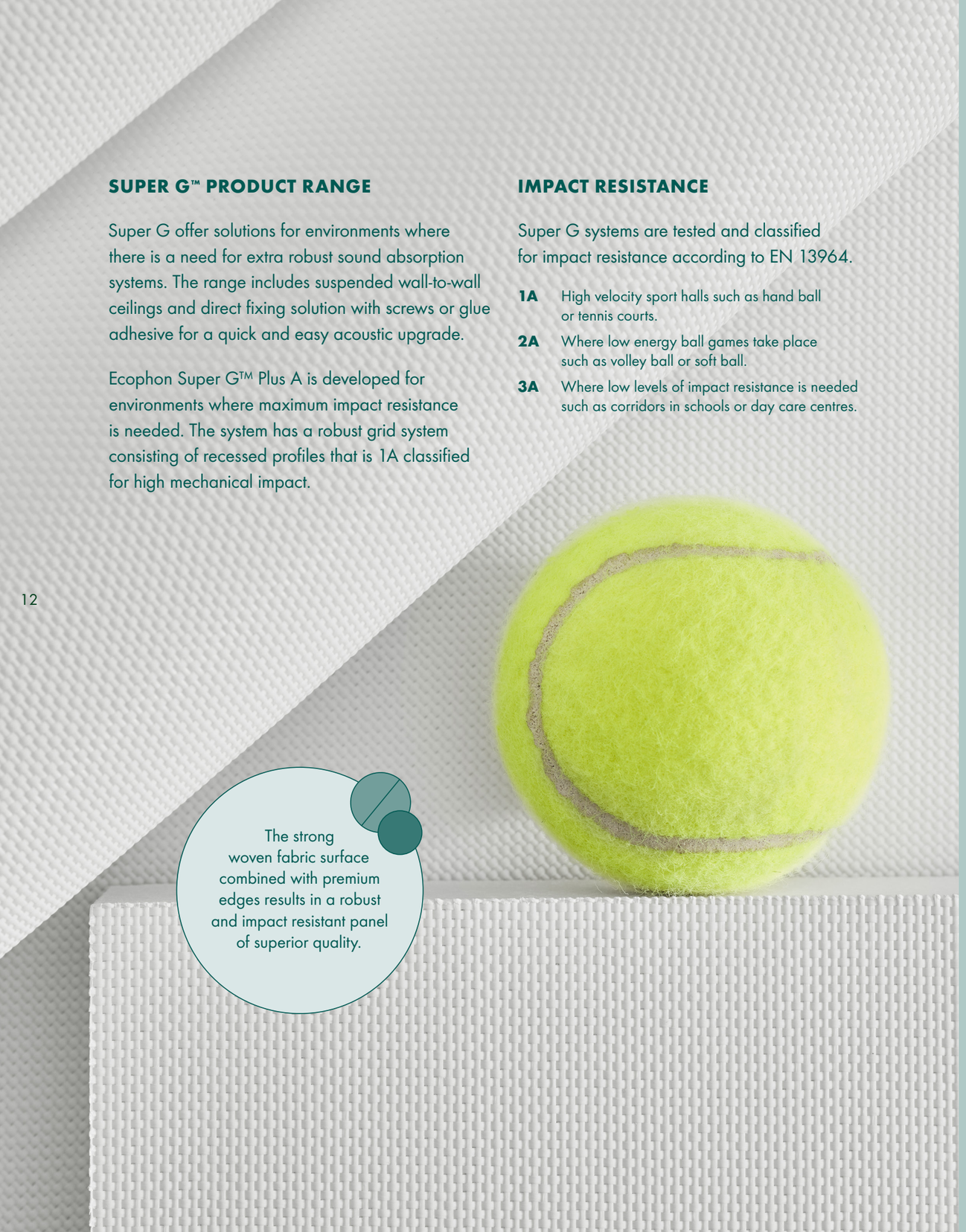
IMPACT RESISTANCE

Super G systems are tested and classified for impact resistance according to EN 13964.

1A High velocity sport halls such as hand ball or tennis courts.

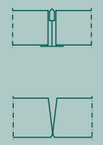
2A Where low energy ball games take place such as volley ball or soft ball.

3A Where low levels of impact resistance is needed such as corridors in schools or day care centres.

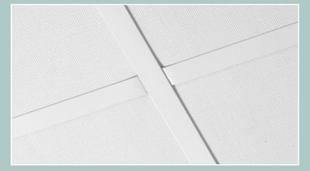


The strong woven fabric surface combined with premium edges results in a robust and impact resistant panel of superior quality.

ECOPHON SUPER G™ OVERVIEW

Edge Design	Product	Absorption class	Connect grid	Sizes (mm)	Impact resistance class*
	Ecophon Super G A	A	T24	600x600x20 1200x600x20	3A
				600x600x35 1200x600x35 1600x600x35 1800x600x35 2000x600x35 2400x600x35	2A
	Ecophon Super G B	A	Direct fixing glue or screws	600x600x40	1A
	Ecophon Super G Plus A	A	Recessed profile	1200x600x40	1A

* According to EN 13964



Super G A

Super G B

Super G Plus A

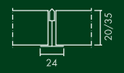
Ecophon Super G panels contribute to a healthy indoor environment with superior acoustic absorption, low VOC emissions in line with the strictest requirements, and a full chemical transparency with verified Health Product Declarations. The low environmental footprint of our Super G panels is third-party verified in Environmental Product Declarations.

The products do not contribute to fire and the glass wool core of the Super G™ 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.

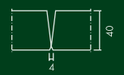
NOTE

More product and system information such as installation help and sustainability documentation can be found at www.ecophon.com

SUPER G A
Visible grid system and impact bracing bars or clips to keep the panels in place.



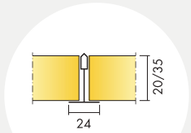
SUPER G B
Bevelled edge with a narrow grove between each tile. For direct fixing with glue or screws.



SUPER G PLUS A
Robust grid system consisting of recessed profiles mounted directly to the soffit or a suspended sub-grid.

System properties

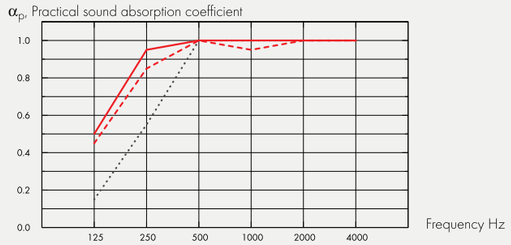
ACOUSTICS, TECHNICAL PROPERTIES AND INSTALLATION DIAGRAMS



Ecophon Super G™ A

Acoustics:

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.



--- Super G A 20 mm, 200 mm o.d.s.
···· Super G A 35 mm, 50 mm o.d.s.
– Super G A 35 mm, 200 mm o.d.s.
o.d.s = overall depth of system

THK mm	o.d.s. mm	α_p, Practical sound absorption coefficient						α_w	Sound absorption class
		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz		
20	200	0.45	0.85	1.00	0.95	1.00	1.00	1.00	A
35	50	0.15	0.55	1.00	1.00	1.00	1.00	0.85	B
35	200	0.50	0.95	1.00	1.00	1.00	1.00	1.00	A

	THK mm	o.d.s. mm	NRC	SAA
-	35	50	0.90	0.92
-	35	200	1.00	0.97
-	35	400	0.90	0.92

Indoor Air Quality:

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

Indoor Air Quality:

Certificate / Label

In collaboration with the Allergy, Skin and Asthma Association

Environmental Footprint: Life-cycle stages A1 to C4 from EPD, in conformity with ISO 14025 / EN 15856 Super G A 20mm: 3,28 , Super G A 35mm: 4,90 ,

Circularity: Minimum post-consumer recycled content (35 mm Super G A): 51%, Minimum post-consumer recycled content (20 mm Super G A): 42%, Recyclability: 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 C, relative humidity 95% and 30°C, according to EN 13964:2014

Visual appearance: White 085. Nearest NCS colour sample: S 1002-Y. Light reflectance: 78%.(The tiles need to be installed in accordance with the arrows on the back of the tile in order to get optimal visual appearance).

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

Accessibility: The tiles are not demountable.

Installation: Installed according to installation diagrams, installation guides and drawing aid. (The tiles have to be installed according to the arrows on the back of the tile.)

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

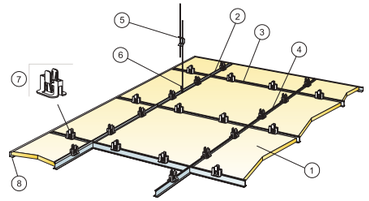
Mechanical properties: See table regarding the min- and max- load bearing capacities and functional demands.

Impact Resistance: Tested and classified according to EN 13964 annex D. 20: M199, 3A, 35: M55, 2A,

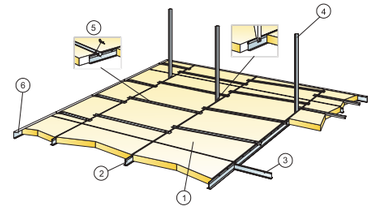
CE: Ecophon ceiling systems are CE marked according to the European harmonized standard EN13964:2014. CE marked construction products are covered by a Declaration of Performance (DOP) which enables customers and users to easily compare performance of products available on the European market.

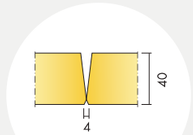
Installation diagram in detail www.ecophon.com

M199
Installation diagram (M199) for Ecophon Super G A (20mm)



M55
Installation diagram (M55) for Ecophon Super G A and Super G A XL, suspended installation (35mm)

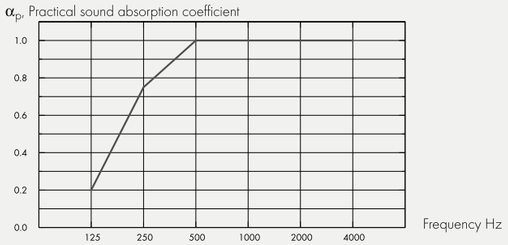




Ecophon Super G™ B

Acoustics:

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.



– Super G B 40 mm, 43 mm o.d.s.

o.d.s = overall depth of system

THK mm	o.d.s. mm	α_p, Practical sound absorption coefficient						α_w	Sound absorption class
		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz		
40	43	0.20	0.75	1.00	1.00	1.00	1.00	1.00	A

	THK mm	o.d.s. mm	NRC	SAA
-	40	43	0.95	0.95

Indoor Air Quality:

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

Indoor Air Quality:

Certificate / Label

In collaboration with the Allergy, Skin and Asthma Association

Environmental Footprint: Life-cycle stages A1 to C4 from EPD, in conformity with ISO 14025 / EN 15847 Super G B: 8,40 ,

Circularity: Minimum post-consumer recycled content: 58%, Recyclability: 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 C, relative humidity 95% and 30°C, according to EN 13964:2014

Visual appearance: White 085. Nearest NCS colour sample: S 1002-Y. Light reflectance: 78%.(The tiles need to be installed in accordance with the arrows on the back of the tile in order to get optimal visual appearance).

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

Accessibility: The tiles are not demountable.

Installation: Installed according to installation diagrams, installation guides and drawing aid. For information regarding minimum overall depth of system see quantity specification. Rendered surfaces must have sufficient strength to be able to carry the load imposed by the tiles. If doubts, test gluing should be carried out. The surface should always be dry and clean. For best result the surface should be even. Install tiles according to arrows.

System weight: The weight of the system should be approximately 5 kg/m²

Mechanical properties: See table regarding the min- and max- load bearing capacities and functional demands. Additional live load has to be fixed to the soffit.

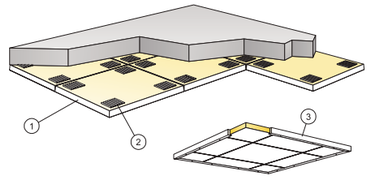
Impact Resistance: Tested and classified according to EN 13964 annex D and fulfill the demands corresponding to DIN 18032 part 3. Adding installations to the system might affect the systems impact resistance. M298: 1A, M487: 1A,

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

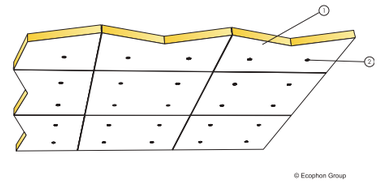
M298

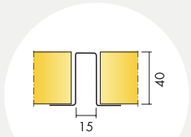
Installation diagram (M298) for Ecophon Super G B, using Connect Absorber glue



M487

Installation diagram (M487) for Ecophon Super G B with Screw and washer

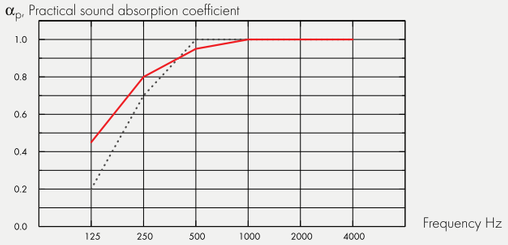




Ecophon Super G™ Plus A

Acoustics:

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.



···· Super G Plus A 40 mm, 40 mm o.d.s.
– Super G Plus A 40 mm, 200 mm o.d.s.
o.d.s = overall depth of system

THK mm	o.d.s. mm	α_p, Practical sound absorption coefficient						α_w	Sound absorption class
		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz		
40	40	0.20	0.70	1.00	1.00	1.00	1.00	1.00	A
40	200	0.45	0.80	0.95	1.00	1.00	1.00	1.00	A

	THK mm	o.d.s. mm	NRC	SAA
-	40	40	0.95	0.95
-	40	200	0.90	0.89
-	40	400	0.85	0.87

Indoor Air Quality:

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

Indoor Air Quality:

Certificate / Label

In collaboration with the Allergy, Skin and Asthma Association

Environmental Footprint: Life-cycle stages A1 to C4 from EPD, in conformity with ISO 14025 / EN 15844 Super G Plus A: 7,73 ,

Circularity: Minimum post-consumer recycled content: 57%, Recyclability: 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 C, relative humidity 95% and 30°C, according to EN 13964:2014

Visual appearance: White 085. Nearest NCS colour sample: S 1002-Y. Light reflectance: 78%.(The tiles need to be installed in accordance with the arrows on the back of the tile in order to get optimal visual appearance).

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

Accessibility: The tiles are not demountable.

Installation: Installed according to installation diagrams, installation guides and drawing aid. (The tiles have to be installed according to the arrows on the back of the tile.)

System weight: The weight of the system (including suspension grid) should be 6 to 7.5 kg/m² (depending on installation method).

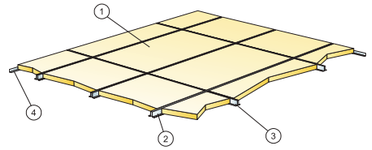
Mechanical properties: See table regarding the min- and max- load bearing capacities and functional demands.

Impact Resistance: Tested and classified according to EN 13964 annex D and fulfill the demands corresponding to DIN 18032 part 3. Adding installations to the system might affect the systems impact resistance. M115: 1A, M527: 1A,

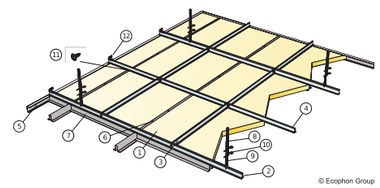
CE: Ecophon ceiling systems are CE marked according to the European harmonized standard EN13964:2014. CE marked construction products are covered by a Declaration of Performance (DOP) which enables customers and users to easily compare performance of products available on the European market.

Installation diagram in detail www.ecophon.com

M115
Installation diagram (M115) for Ecophon Super G Plus A, direct installation



M527
Installation diagram (M527) for Ecophon Super G Plus A, suspended installation



Ecophon is the leading supplier of indoor acoustic solutions that improve working performance and quality of life. We believe in the difference sound can make to our everyday lives, and are passionate advocates for the importance of room acoustics to people's wellbeing – whatever the space, activity or need.

Having a sound effect on people is the principle that guides all we do. We're proud of the Swedish heritage and human approach that promise is founded on. Our uncompromising commitment to transparent sustainable practice. And, as members of the Saint-Gobain Group, to be doing our part in making the world a better home.

SAINT-GOBAIN

Ecophon
SAINT-GOBAIN