

ELEMENTARY
FUNCTION
PAINTED BLACK

ECOPHON SOMBRA™



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Acoustics, technical properties and installation diagrams

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.in or contact your nearest Ecophon representative.





On Thursday
Book all Winter





A sound effect

ON PEOPLE

05

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.

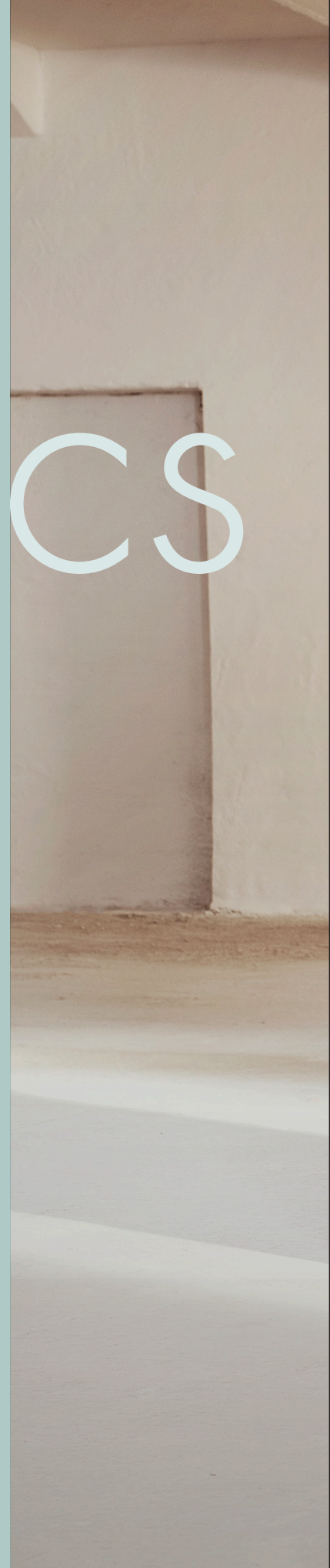
So what exactly is an ideal indoor sound environment for people?

One based on how we experience sound outside. The human auditory sense is naturally adapted to an outdoor environment where there are no 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 are 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 towards standardised 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 just the favourable 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 Sombra™

ELEMENTARY FUNCTION PAINTED BLACK

Ecophon Sombra™ is a well-proven suspended wall-to-wall ceiling. The system provides absorption class A and creates just the right sound environment for social venues such as bars and night clubs. Ecophon Sombra is available in matt black, batch-painted glass tissue.

- Absorption class A
- Visible grid offer in 2 different formats
- A matt black ceiling





ECOPHON SOMBRA™ PRODUCT RANGE

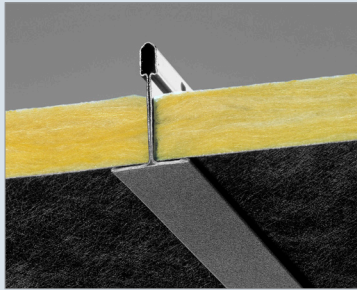
Ecophon Sombra is a suspended wall-to wall ceiling system with excellent acoustic properties. It is a perfect choice for applications that requiring a black ceiling with low light reflection and good sound absorbing properties.

Ecophon Sombra™ A has an exposed grid system and a natural edge. The back of the tile is covered with glass tissue. The system is easy both to install and demount if needed.

ECOPHON SOMBRA A

600x600x15

1200x60015



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COLOUR AND SURFACE

The Sombra™ surface is a non-woven, matt black, batch-painted glass tissue.

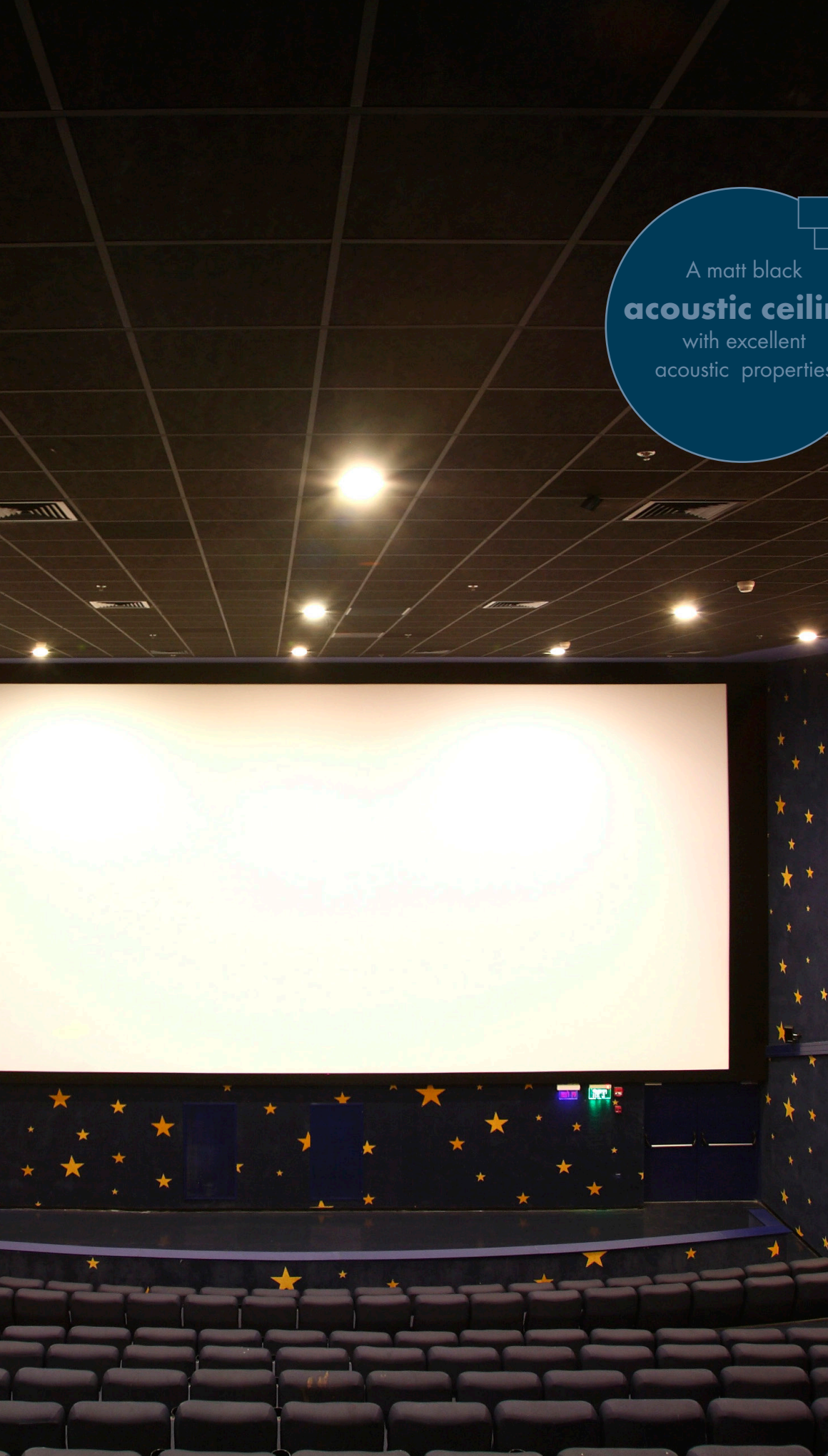


BLACK 997

Nearest NCS colour sample S 9000-N.
Light reflectance 3-4%.



A matt black
acoustic ceiling
with excellent
acoustic properties



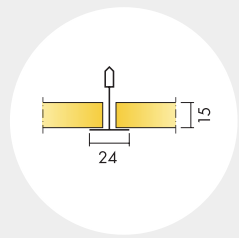
System properties

**ACOUSTICS, TECHNICAL PROPERTIES
AND INSTALLATION DIAGRAMS**

16 Ecophon Sombra A







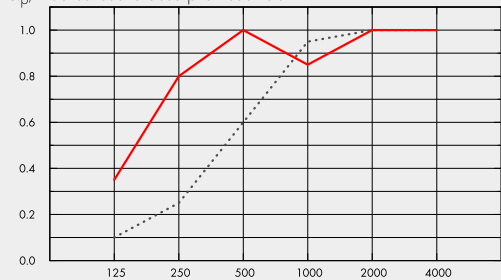
Ecophon Sombra™ A

Acoustic:

Sound Absorption:

Test results according to EN ISO 354. Classification according to EN ISO 11654, and the single value ratings for Noise Reduction Coefficient, NRC and Sound Absorption Average, SAA according to ASTM C 423.

α_p , Practical sound absorption coefficient



.... Sombra A 15 mm, 50 mm o.d.s.

— Sombra A 15 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
-	15	50	0.10	0.25	0.60	0.95	1.00	1.00	0.55	D
-	15	200	0.35	0.80	1.00	0.85	1.00	1.00	0.95	A

	THK mm	o.d.s. mm	NRC	SAA
-	15	50	0.70	0.71
-	15	200	0.90	0.91

Indoor Air Quality:

Certificate / Label

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

Environmental Footprint: Life-cycle stages A1 to C4 from EPD, in conformity with ISO 14025 / EN 15804

	kg CO ₂ equiv/m ²
Sombra A	2,14

Circularity: Minimum post-consumer recycled content: 55%, 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: Black 997, nearest NCS colour sample S 9000-N, 3-4% light reflectance.

Cleanability: Weekly dusting and vacuum cleaning.

Accessibility: The tiles are easily demountable. Minimum demounting depth according to installation diagrams.

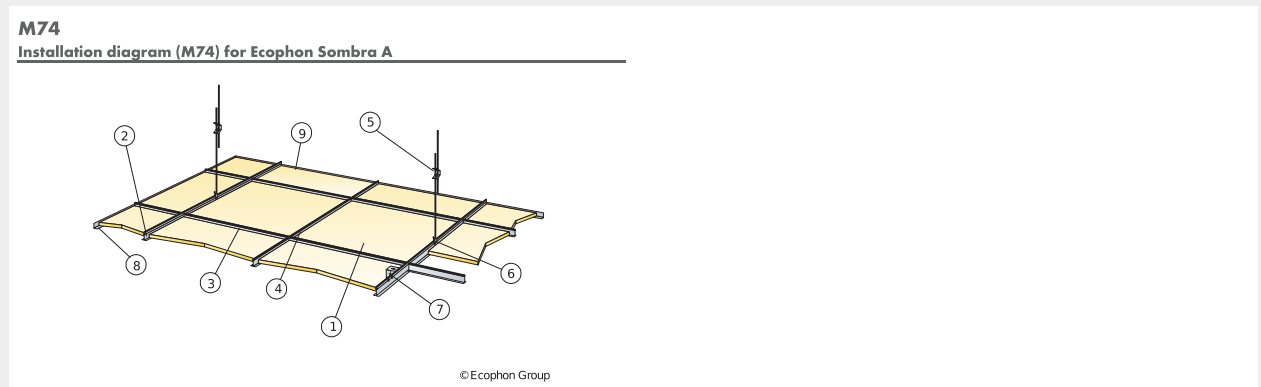
Installation: Installed according to installation diagrams, installation guides and drawing aid. (The tiles have to be installed according to the arrows on the back of the tile.)

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

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

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

Installation diagram in detail www.ecophon.com



Ecophon is the leading supplier of solutions for indoor acoustic environments that improve working performance, wellbeing and quality of life.

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 that balance the need for comfort and cost-effectiveness with energy efficiency and environmental responsibility.



– making the world
a better home.

