

ECOPHON

FADE™

SEAMLESS ACOUSTIC PLASTER



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Acoustics, technical properties and installation diagrams

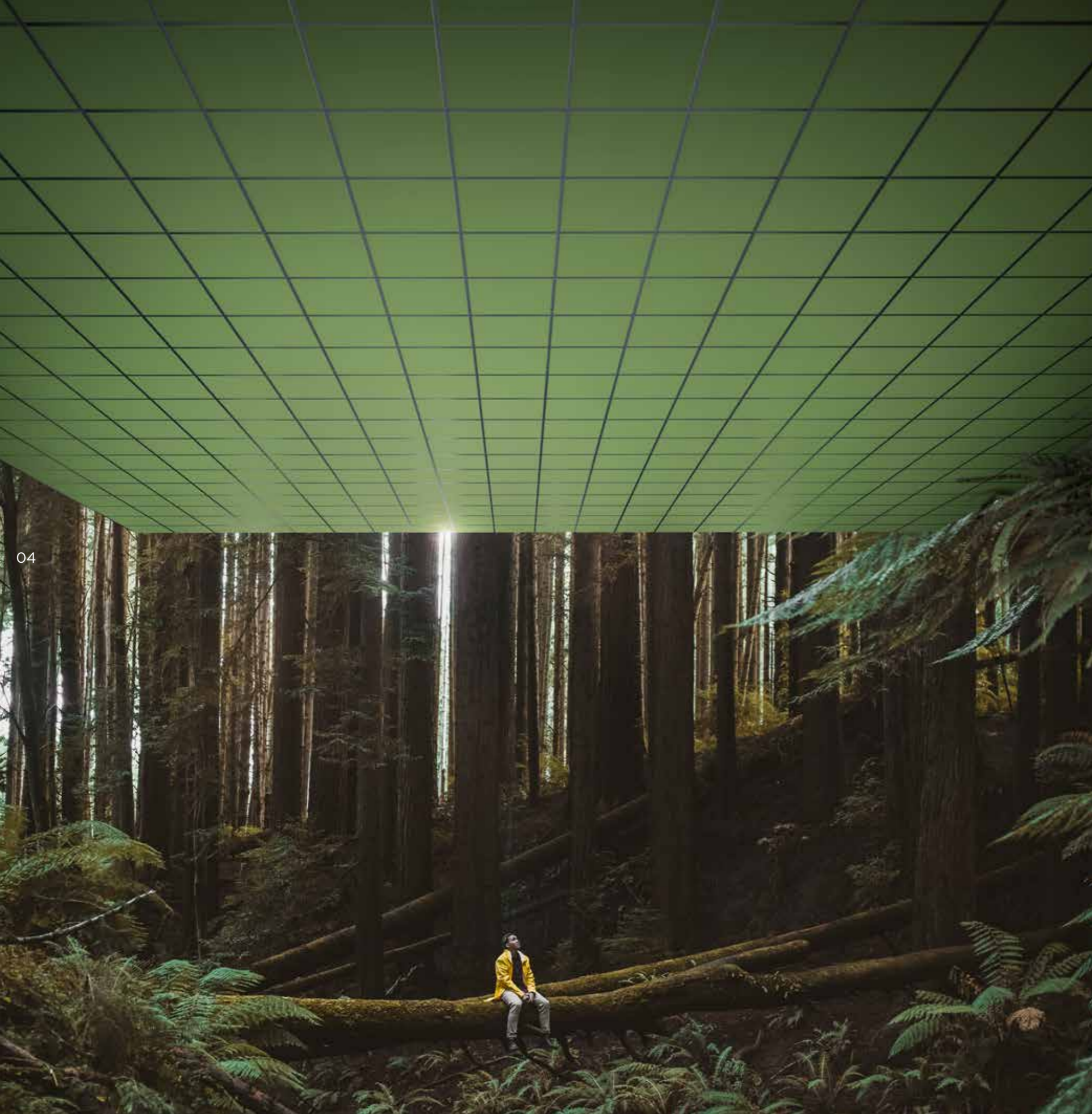
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The Fade system is a premium acoustic plastering solution designed to effectively absorb unwanted noise.

Applied via spraying technique this system provides superior acoustic control with a smooth surface finish.

Its seamless application offers a discrete alternative to traditional modular acoustic solutions.



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.

Fade sound-absorbing substrate is made from minimum 70% post-consumer recycled content mainly from recycled glass bottles and jars.

Our products are very durable, highly UV and humidity resistant, anti-static and can be recoated. This helps to reduce the building's life-cycle impact.

TOWARDS

NET-ZERO ACOUSTICS

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 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 only 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 **FADE™**

Fade brings together aesthetic appeal with acoustic performance, catering perfectly to a broad spectrum of settings including historic buildings, upscale residences, commercial establishments, retail, and educational institutions.

Originating from the Nordics, Fade embodies a commitment to innovative design, sustainability, and superior acoustic functionality.

ECOPHON FADE™ ONE SMOOTH

- Up to absorption class A*
- Smooth seamless acoustic plaster ceiling
- Quick and easy installation

* Fade ONE Smooth with 40 mm acoustic board. To achieve the acoustic performance outlined in the product data sheets you must respect the instructions in the installation guides for Ecophon Fade™, both documents available on Ecophon.com

DISCOVER THE POSSIBILITIES WITH FADE ONE SMOOTH

Experience a new era of acoustic solutions with the flexible Fade ONE Smooth acoustic plaster system.

With its adaptable application, the Fade ONE Smooth system can be installed on surfaces including straight and curved ceilings to dramatic angles and arching domes.

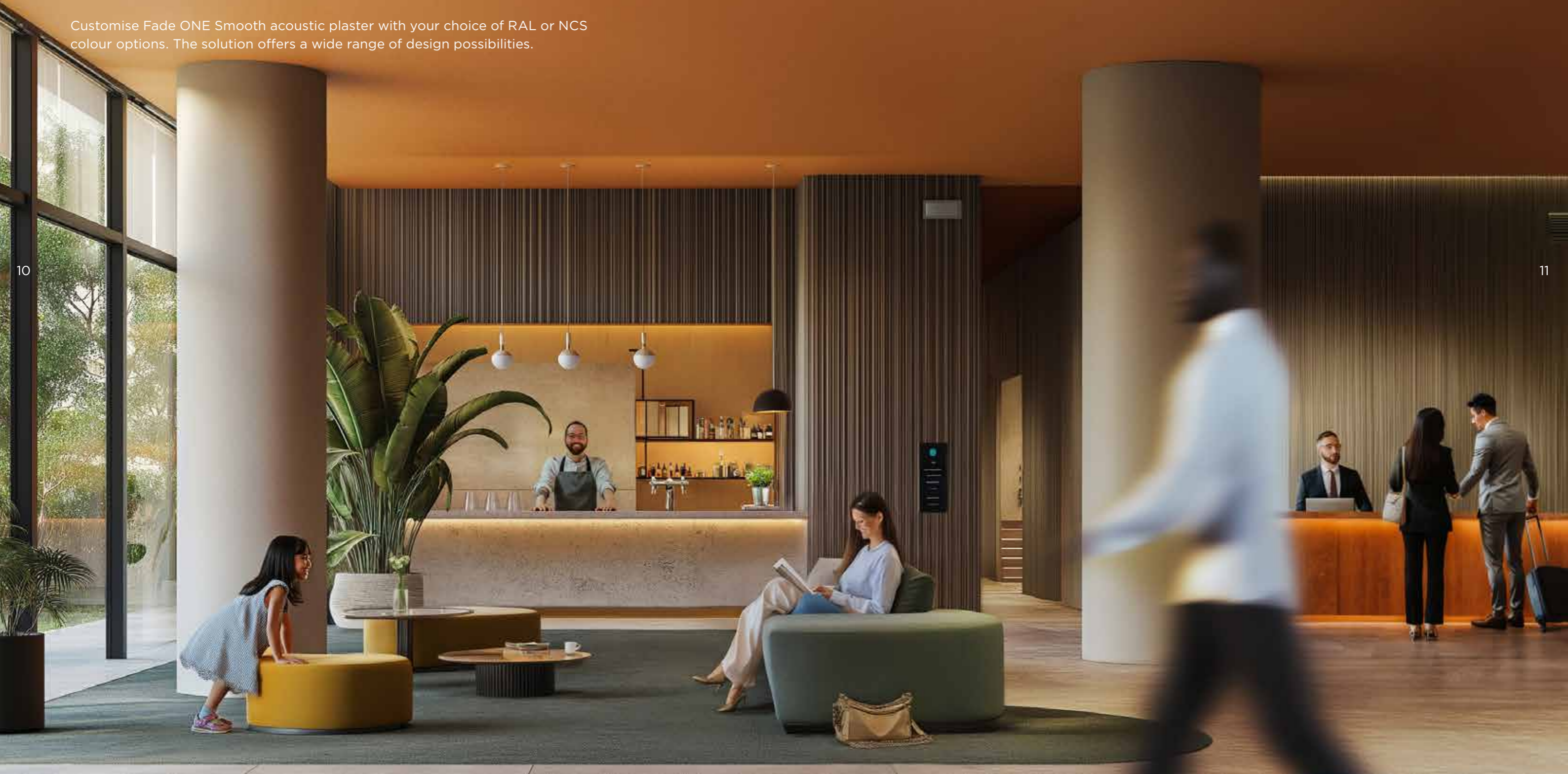
- **Straight and curved ceilings**
- **Inorganic, perlite based acoustic plaster. Highly durable and stable to UV**
- **Easy repairs thanks to sanding, can be spot repaired**
- **Acoustic plaster also in joint filling, maximising the acoustic area**
- **Custom colour with Fade Colour Dye (installed with fine texture only)**

DISCOVER THE VERSATILITY OF FADE ONE SMOOTH SOLUTION

Customise Fade ONE Smooth acoustic plaster with your choice of RAL or NCS colour options. The solution offers a wide range of design possibilities.

NOTE

Colours may vary slightly between different production batches. Reproduction of colours vary between print and reality. Installed with a fine texture only.



CURVES, VAULTS & DOMES

CAN BE INTEGRATED INTO THE
ACOUSTIC DESIGN



Ecophon collaborates with accredited and

WELL-RENOWNED LABORATORIES

to perform acoustic tests on all products, ensuring your wellbeing

GOOD ACOUSTICS

MATTER EVERYWHERE

Our promise "A sound effect on people" is the core backbone of everything we do. Our products meet the reverberation time requirements set out in the LEED reference standard.

Sound impacts us in daily life, and the scientific support for improving our indoor sound environments is well-documented.

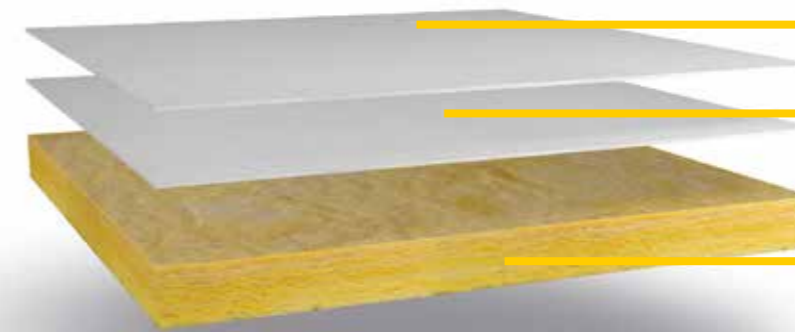
And what exactly is an ideal indoor sound environment for people? One based on how we experience sound outside. The human auditory sense is naturally adapted to an outdoor environment where there is not any sound reflections from ceilings and walls.

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.

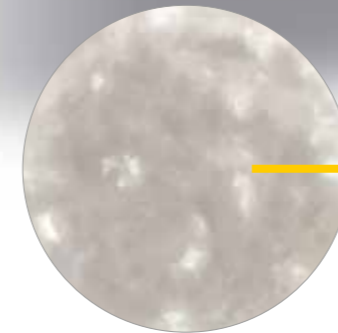
HOW DOES IT WORK?

Fade acoustic ceiling and the science behind



Two layers of Fade ONE Smooth perlite based acoustic plaster

40 mm glass wool acoustic board, class A*



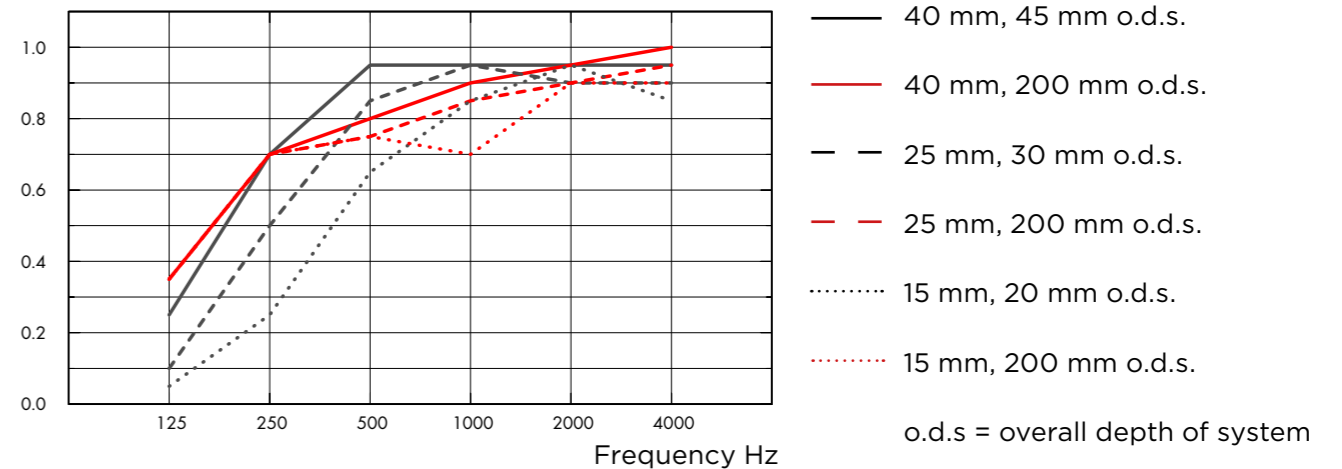
Magnified perlite based acoustic plaster: "White" areas indicate where the acoustic plaster is "open", and the sound will pass through.

*Test result with Fade ONE Smooth according to EN ISO 354.

SOUND ABSORPTION

Test results according to EN ISO 354. Classification according to EN ISO 11654, and the single value rating for Noise Reduction Coefficient, NRC, according to ASTM C 423.

α_p , Practical sound absorption coefficient

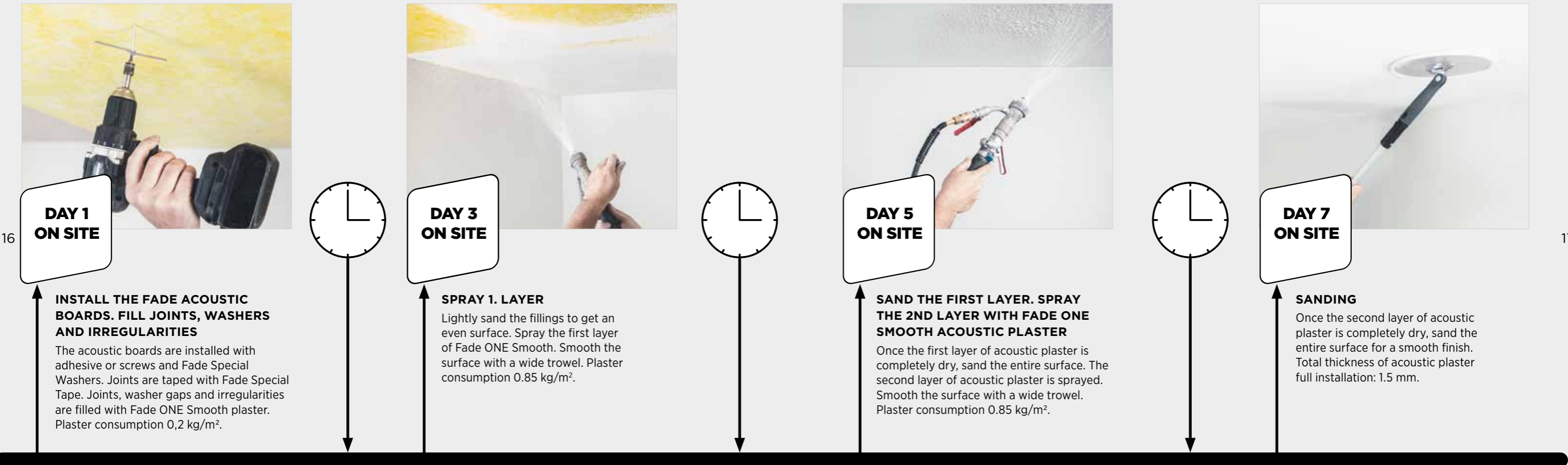


FADE ONE SMOOTH

SMOOTH SANDED FINISH

INSTALLATION TIMELINE

A step-by-step guide to installing the Fade ONE Smooth acoustic plaster system.



16

17

 **DAY 2, 4 & 6**

LET THE PLASTER DRY FOR AT LEAST 24 HOURS

The drying time of the Fade Acoustic Plaster depends on the room temperature and the room humidity. In hot and dry conditions, the drying may take less time. Please allow the acoustic plaster to dry thoroughly before proceeding to the next steps.

Please note, the timeline serves as orientation, lists the necessary work steps and defines the minimum amount of time that must be taken into account.

A thicker plaster layer (compared to the recommended thickness of 1.5 mm) may be applied to achieve a smoother aesthetic and visual finish. However, this may reduce the acoustic performances of the product.

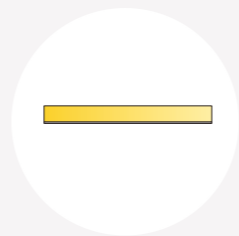
SYSTEM

PROPERTIES

ACOUSTICS, TECHNICAL PROPERTIES AND INSTALLATION DIAGRAMS

20 Fade™ ONE Smooth



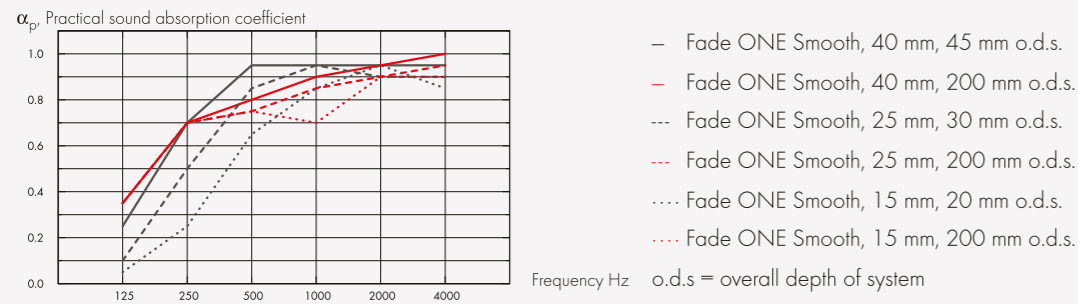


Ecophon Fade™ ONE Smooth

Acoustics: NB! When installed on suspended plasterboard (M669, M670) the sound absorption is the same as with a direct installation (o.d.s 20/30/45 mm). Non-optimal application of the product could derive in material consumptions higher than the recommended and thus decrease the acoustic properties.

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.



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	45	0.25	0.70	0.95	0.95	0.95	0.95	A	
40	200	0.35	0.70	0.80	0.90	0.95	1.00	A	
25	30	0.10	0.50	0.85	0.95	0.90	0.90	B	
25	200	0.35	0.70	0.75	0.85	0.90	0.95	B	
15	20	0.05	0.25	0.65	0.85	0.95	0.85	D	
15	200	0.35	0.70	0.75	0.70	0.90	0.90	C	

THK mm	o.d.s. mm	NRC	SAA
40	45	0.90	0.89
40	200	0.85	0.84
25	30	0.80	0.80
25	200	0.80	0.79
15	20	0.65	0.67
15	200	0.75	0.76

Indoor Air Quality:

Certificate / Label	
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. Fire test, E 84-11a. Europe: EN 13501-1, A2-s1,d0,

Humidity Resistance: Resistance to Humidity (RH 100%, 40°C) - ISO DS/EN 6270-2

Visual appearance: White NCS S 1002-Y20R, CIE Y=73% light reflectance. Gloss < 1 . Colours may vary slightly between different production batches

Cleanability: Surface dust and dirt can be cleaned with a soft, dry brush or compressed air.

Accessibility: The system supports installation of inspection hatch.

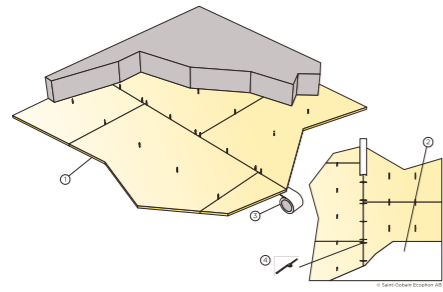
Installation: Installed according to installation diagrams, installation guides and drawing aid. For information regarding minimum overall depth of system see quantity specification. When installing direct-to-grid the installer must ensure that the building is airtight to prevent dust deposits from airflow through the open-pored acoustic plaster system.

System weight: The weight of the system (including suspension grid) should be approximately 3 - 7 kg/m² for the direct fixed mechanical or glued. App. 5 - 8 kg/m² for direct mechanical installation to suspended grid system. For system mechanical or glued to plasterboard fixed to suspended grids app. 14 - 18 kg/m².

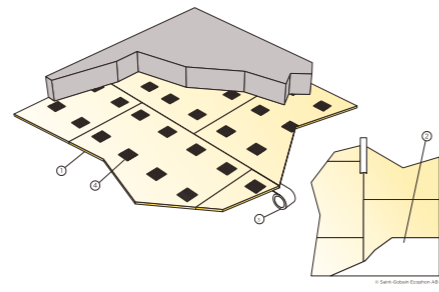
Mechanical properties: Additional load (lighting, ventilation, etc.) should be supported by the suspension system according to the manufacturers recommendation or be hung directly from the soffit.

CE: Fade ceilings system is CE marked according to the European harmonized standard EN 13964:2014. 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.

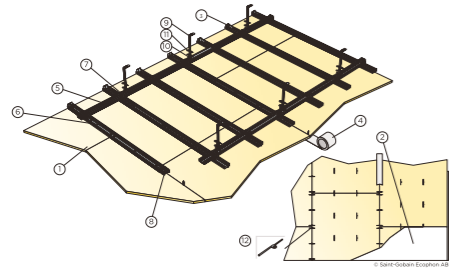
M666
Installation diagram (M666) for Ecophon Fade ONE Smooth direct fixation,
mechanical



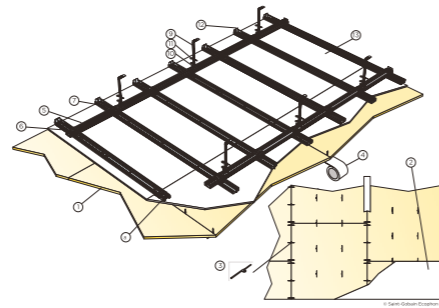
M667
Installation diagram (M667) for Ecophon Fade ONE Smooth direct fixation with
glue



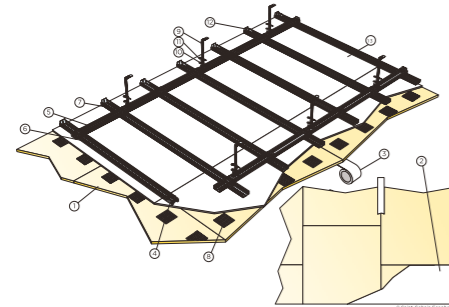
M668
Installation diagram (M668) for Ecophon Fade ONE Smooth suspended grid,
mechanical fixation



M669
Installation diagram (M669) for Ecophon Fade ONE Smooth suspended grid,
mechanical fixation to substrate



M670
Installation diagram (M670) for Ecophon Fade ONE Smooth suspended grid,
glued to substrate



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. And, as members of the Saint-Gobain Group, to be doing our part in making the world a better home.

Saint-Gobain Ecophon AB

Box 500, SE-265 03 Hyllinge, Sweden

Phone: +46 (0)42 17 99 00

Fax: +46 (0)42 22 55 55

www.ecophon.com

SE556142516501 • Based in Åstorp