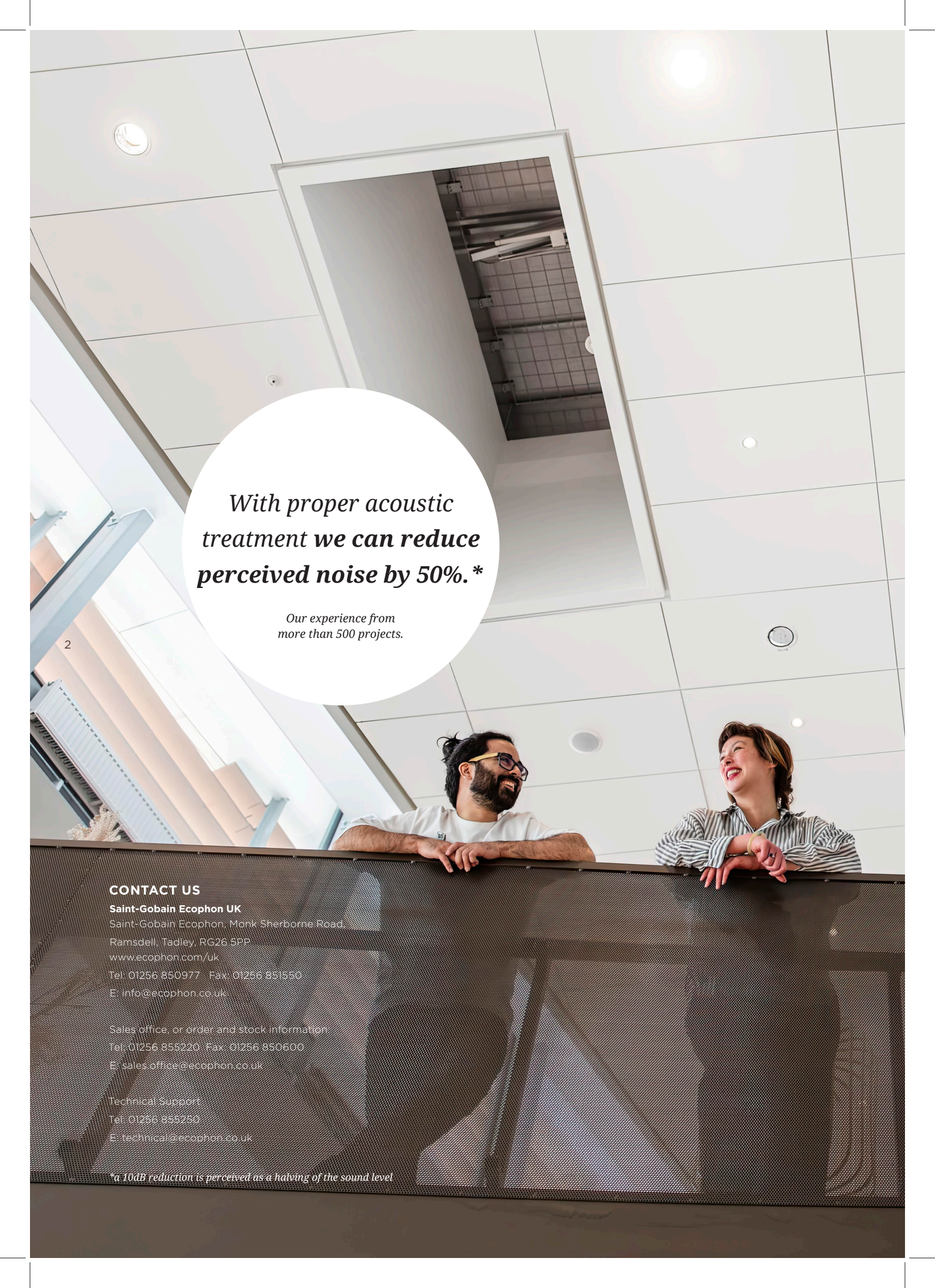


Acoustic design challenge?

We're all ears.

Multi-material solutions
for multi-purpose spaces



*With proper acoustic
treatment we can reduce
perceived noise by 50%.**

*Our experience from
more than 500 projects.*

CONTACT US

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E: technical@ecophon.co.uk

**a 10dB reduction is perceived as a halving of the sound level*



WHEREVER THERE IS AN ACOUSTIC DESIGN CHALLENGE,

WE WANT TO HEAR ALL ABOUT IT.

Regardless of the setting – be it a **cultural venue**, hotel, or office – good acoustic design is needed to make each space feel welcoming and supportive of its purpose.

Our scientific and activity-based approach ensures solutions that enhance both the atmosphere and function while meeting users' needs and wellbeing – from first impressions to dining areas and meeting spaces.

Guided by your design vision, **we create acoustic solutions without compromise.**

Did you know?

The higher the walls, the greater their contribution to the sound experience of the room, including reverberation and overall sound levels.

CASE STUDY: SHAPING A SOUND EXPERIENCE

IN A MULTI-PURPOSE SPACE

As more buildings are being designed for multiple purposes, achieving the right acoustics can be a challenge.

By combining various materials and solutions, you can bring your architectural visions to life while meeting acoustic needs.

With our wide product range and acoustic guidance, we'll support you in every step of the building process.

Spaces characterised by

- Open layouts
- High ceilings and walls
- Hard and reflecting surfaces
- Multiple activities
- High level of people coming and going

Common acoustic challenges

- Speech clarity at short distance
- Sound propagation
- Reverberation
- Background noise

On the following pages, you can experience the benefits of acoustic design in these various rooms — simply scan the QR codes.



COLLABORATION AREA

WELCOMING AREA

FOOD COURT

MEETING ROOM

5



SHAPING INITIAL IMPRESSIONS **WELCOMING AREA**

In a welcoming area, the first point of contact plays a key role in shaping the initial impressions. With many people moving around the space and several activities ongoing, sound levels rise and impact the overall experience. This is especially challenging for people with hearing problems who are sensitive to noise, and non-native speakers.

Listen

to a simulation
of this room
before and after
acoustic treatment



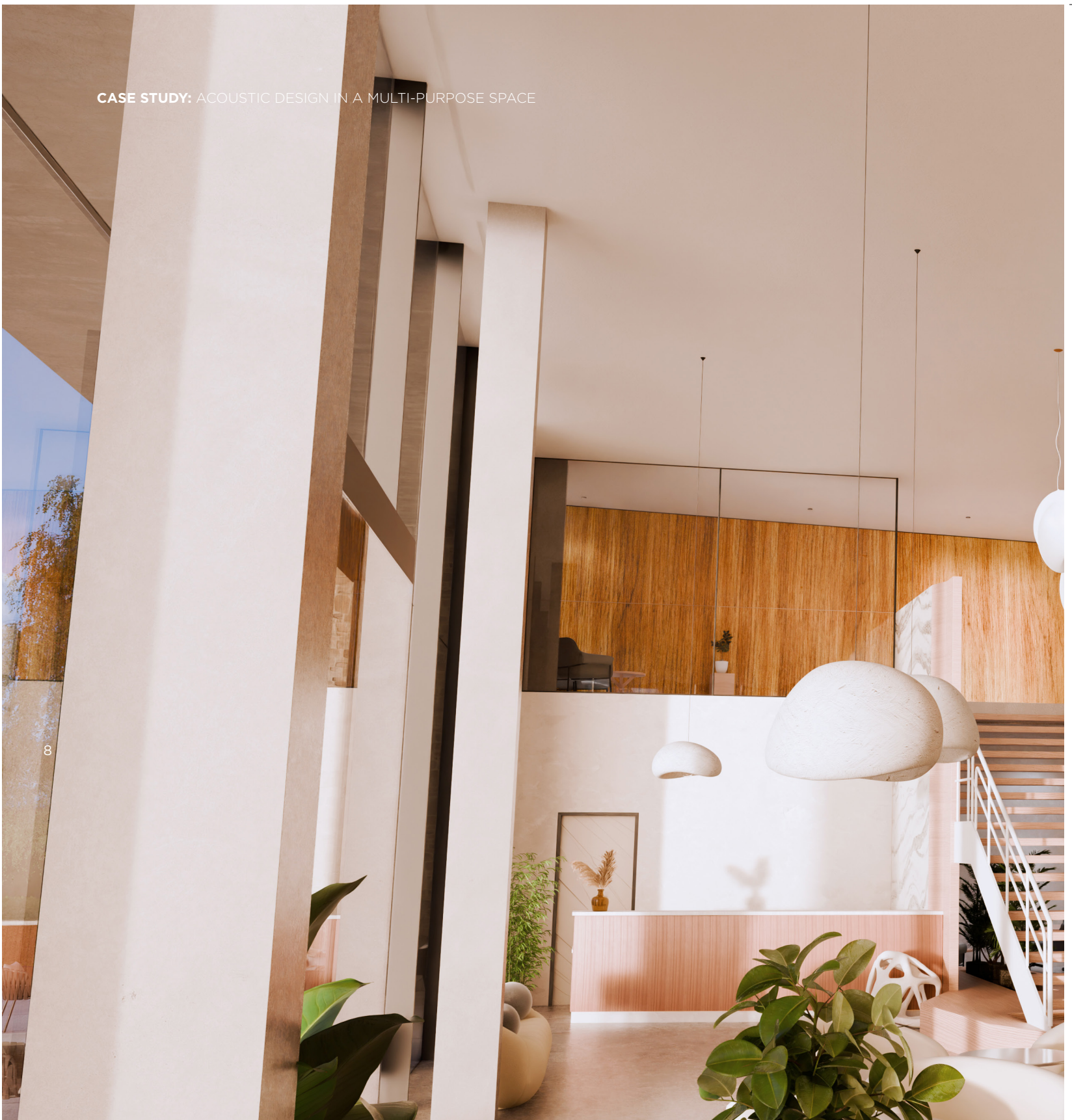
*Proper acoustic
treatment **can triple**
speech decay,
improving privacy.*

7

To improve the acoustic experience in this space, we need to:

- Reduce sound levels and background noise
- Ensure speech privacy and clarity at short distances

CASE STUDY: ACOUSTIC DESIGN IN A MULTI-PURPOSE SPACE



WELCOMING AREA

START WITH THE BIG SURFACES

An effective way to reduce overall sound levels is to treat the ceiling with a full covering sound-absorbing solution.



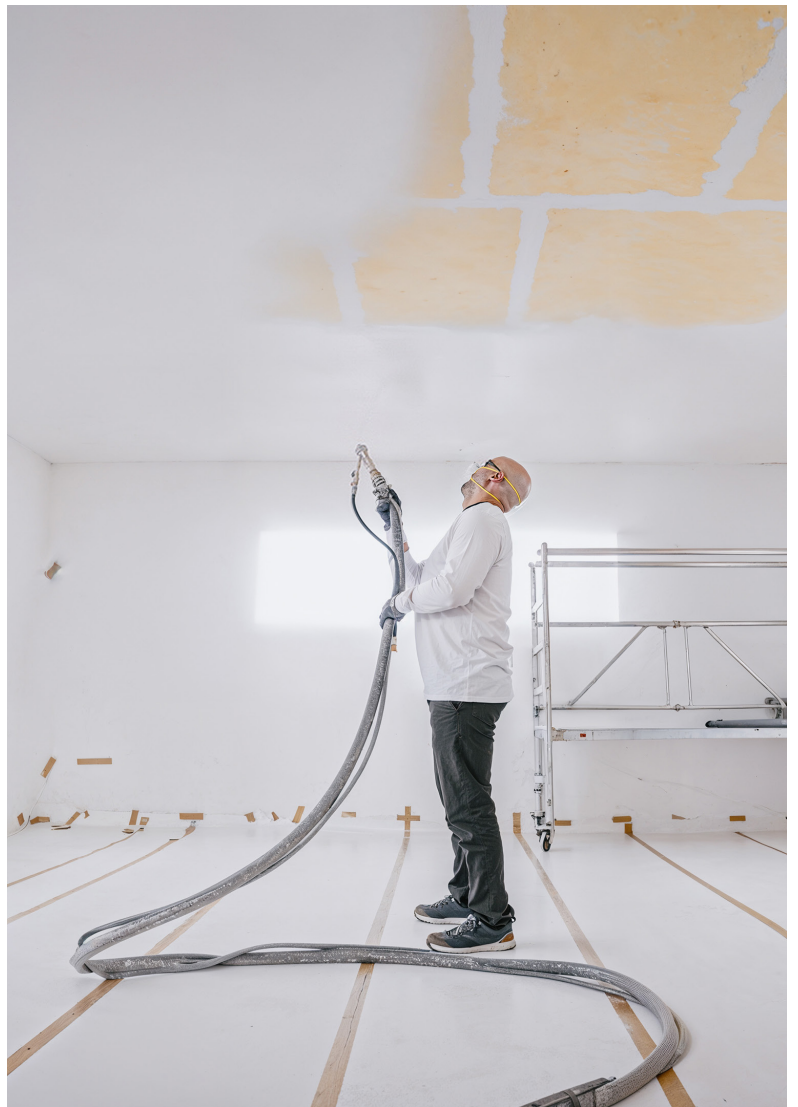
Ecophon Fade™ ONE Smooth

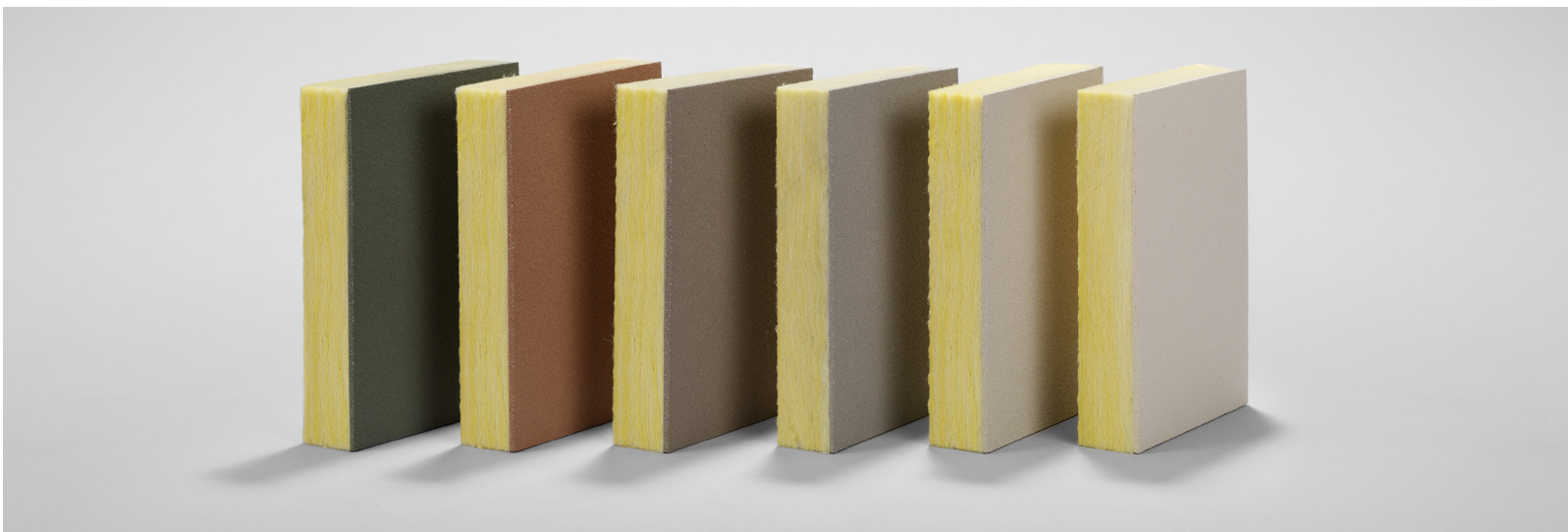
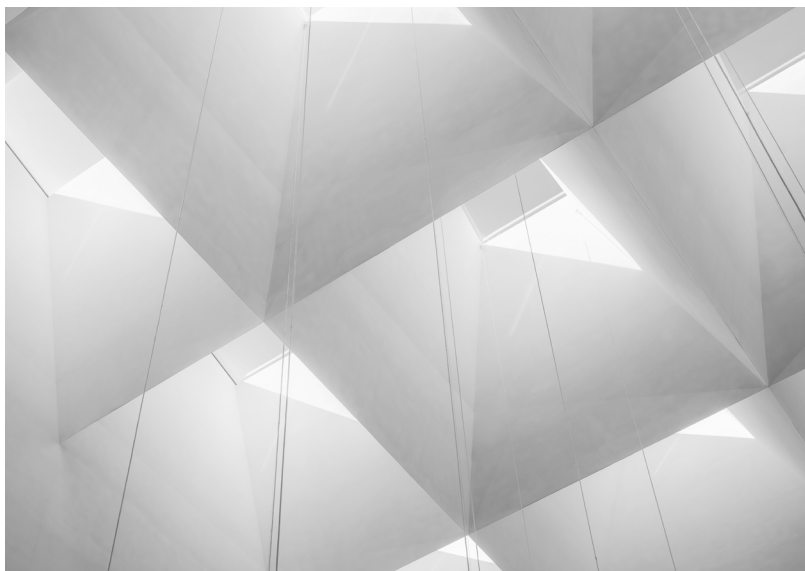
A seamless acoustic plaster that provides a flexible solution, easily adaptable to the room's volume and shape. It reduces background noise and sound strength, by creating a solid sound-absorbing base.

Ecophon Fade™ ONE Smooth

KEY BENEFITS

- Up to absorption Class A
- One plaster for all layers
- Spray-applied
- Custom colours
- Seamless surface
- Highly durable and stable to UV
- Sandable and spot-repairable





CASE STUDY: ACOUSTIC DESIGN IN A MULTI-PURPOSE SPACE

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WELCOMING AREA / RECEPTION

HIGH LEVEL OF DESIGN FREEDOM

Free-hanging baffles that cover the ceiling can significantly reduce background noise and enhance speech clarity. Additionally, they create a light, organic effect while maintaining the high ceiling.



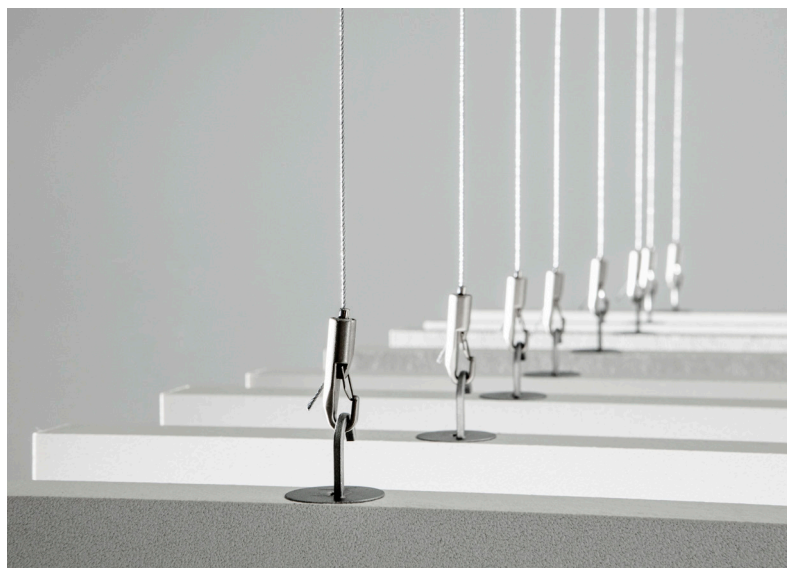
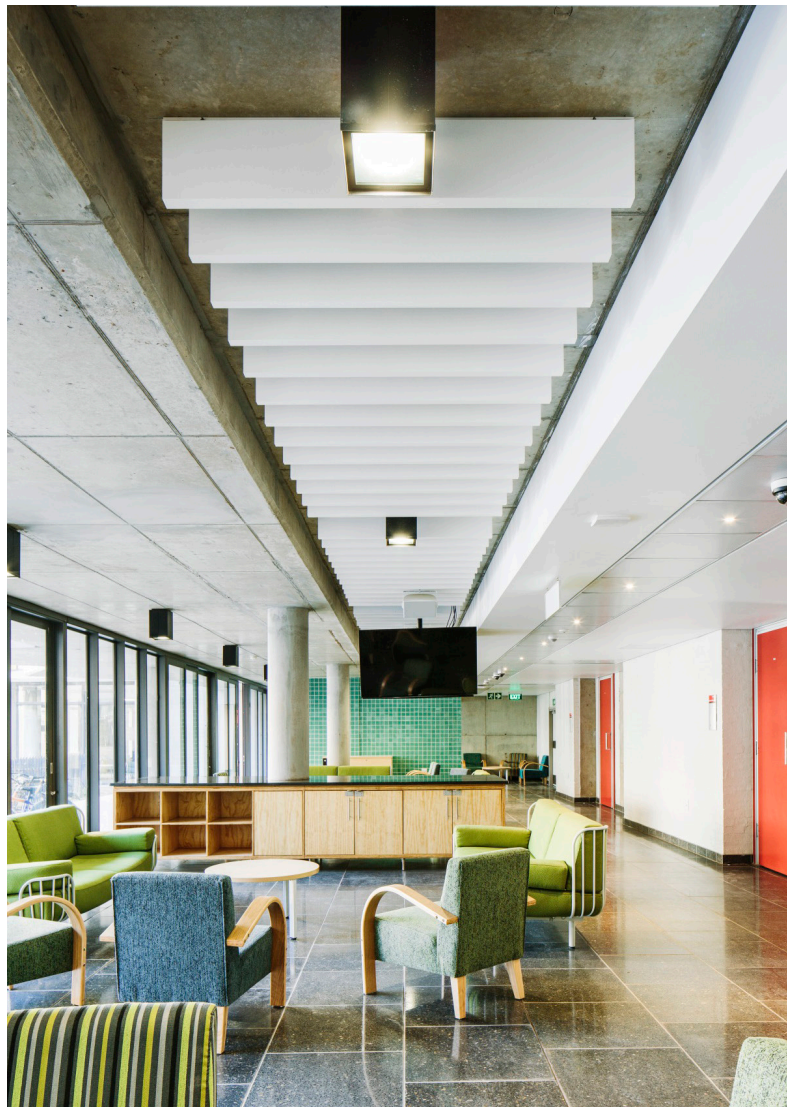
Ecophon Solo™ Baffle Wave

A flexible solution and design lead, adjust the height of the baffles and the distance between rows to create the desired appearance and acoustic experience. Aim for a coverage ratio of at least 80%.

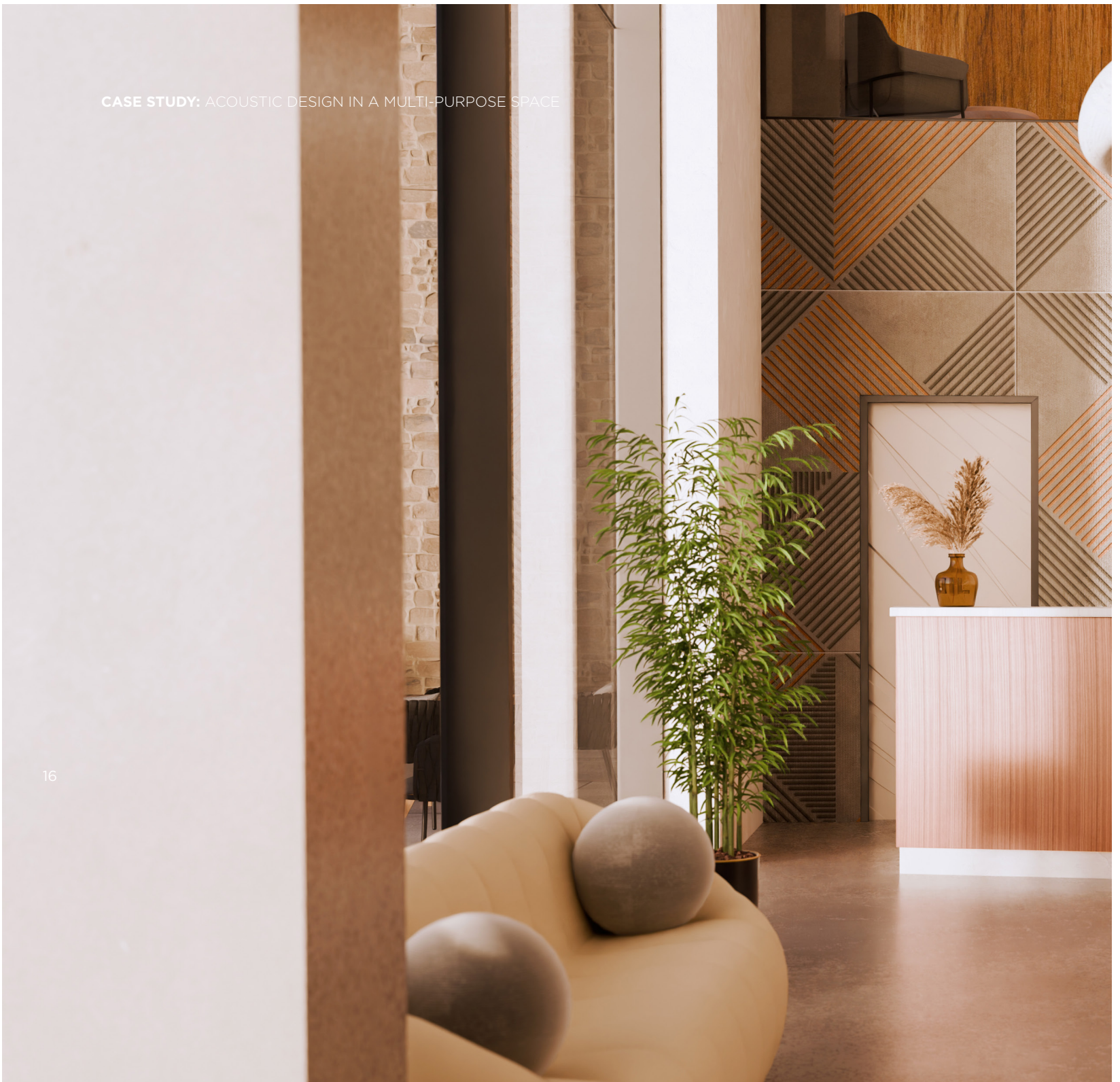
Ecophon Solo™ Baffle

KEY BENEFITS

- Superior acoustic qualities
- Straight, painted edges
- Available in various shapes
- Standard sizes: from 1200x200 mm to 1800x600 mm
- Adds a different perspective and distinct lines
- Can be combined with heating and cooling ceiling
- Main acoustic solution or additional sound absorption





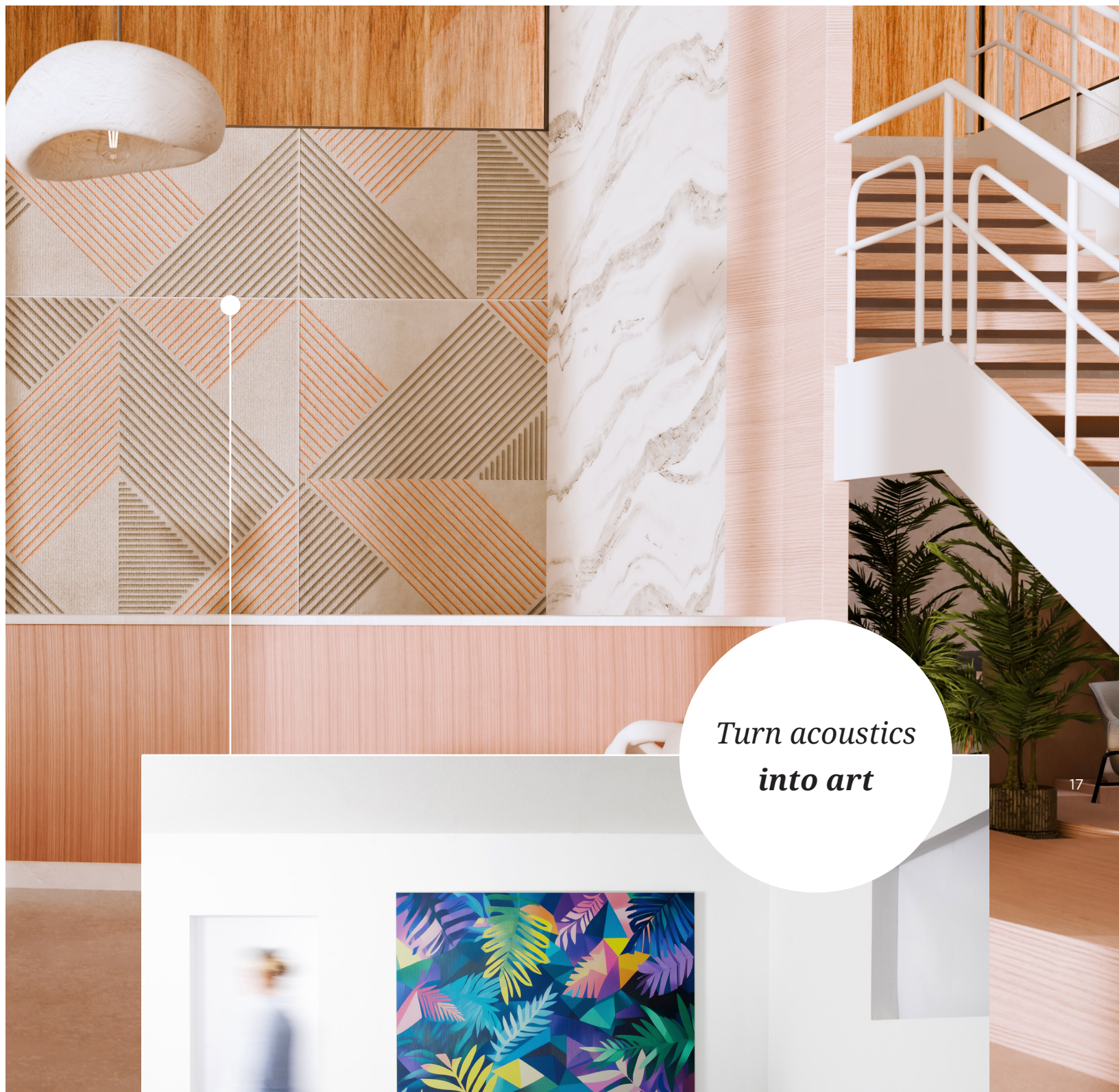


WELCOMING AREA / RECEPTION

ENHANCING SPACES THROUGH ACOUSTIC WALL DESIGN

In large volume spaces with higher ceilings, acoustic treatment of the walls is essential. This not only enhances the acoustic experience but also provides opportunities to elevate the overall design.

Covering the walls of the reception area with stretched acoustic fabric will enhance speech comfort and clarity. It also improves privacy by keeping conversations closer to their source.



*Turn acoustics
into art*

Ecophon Clipso™ So Acoustic


A wall-mounted acoustic fabric solution. Available with print so you can tailor the design to suit your preferences.

WELCOMING AREA / LOUNGE

DEDICATED SPACES FOR CONVERSATION

Lower ceiling heights in limited zones can be an effective design technique to help control sound. However, if left untreated, there is still a risk of sound reflections.

Wherever people talk close to the walls, it's crucial to stop sound from bouncing within the space. By treating the surrounding walls and ceiling, you prevent sound reflections, ensure speech comfort and improve privacy while also limiting the sound from spreading.



*Exposure to 50 dB of
irrelevant speech noise
**increases physiological
stress levels and reduces
accuracy.****

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Ecophon Clipso™ So Acoustic

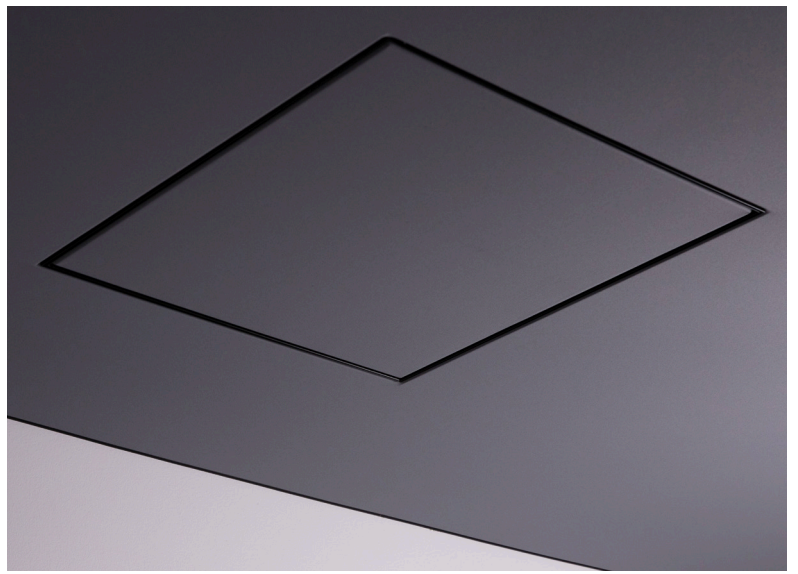
A fully flexible, technical knitted fabric for a seamless, integrated solution. Adapts to any shape to generate a coherent experience.

* Source: J. Radun, H. Maula, I-K Tervahartiala, V. Rajala, S. Schlittmeier, V. Hongisto "The effects of irrelevant speech on physiological stress, cognitive performance, and subjective experience: Focus on heart rate variability", International Journal of Psychophysiology, 2024.

Ecophon Clipso™

KEY BENEFITS

- Premium acoustic absorber up to class A
- Coated to provide a resistant surface
- Seamless full covering of ceiling and wall
- Free-hanging or wall-mounted absorbers
- 24 standard colours, or any colour on demand
- Customised prints
- Widths up to 5.1 m
- Quick and clean installation
- Easy integration of technical components





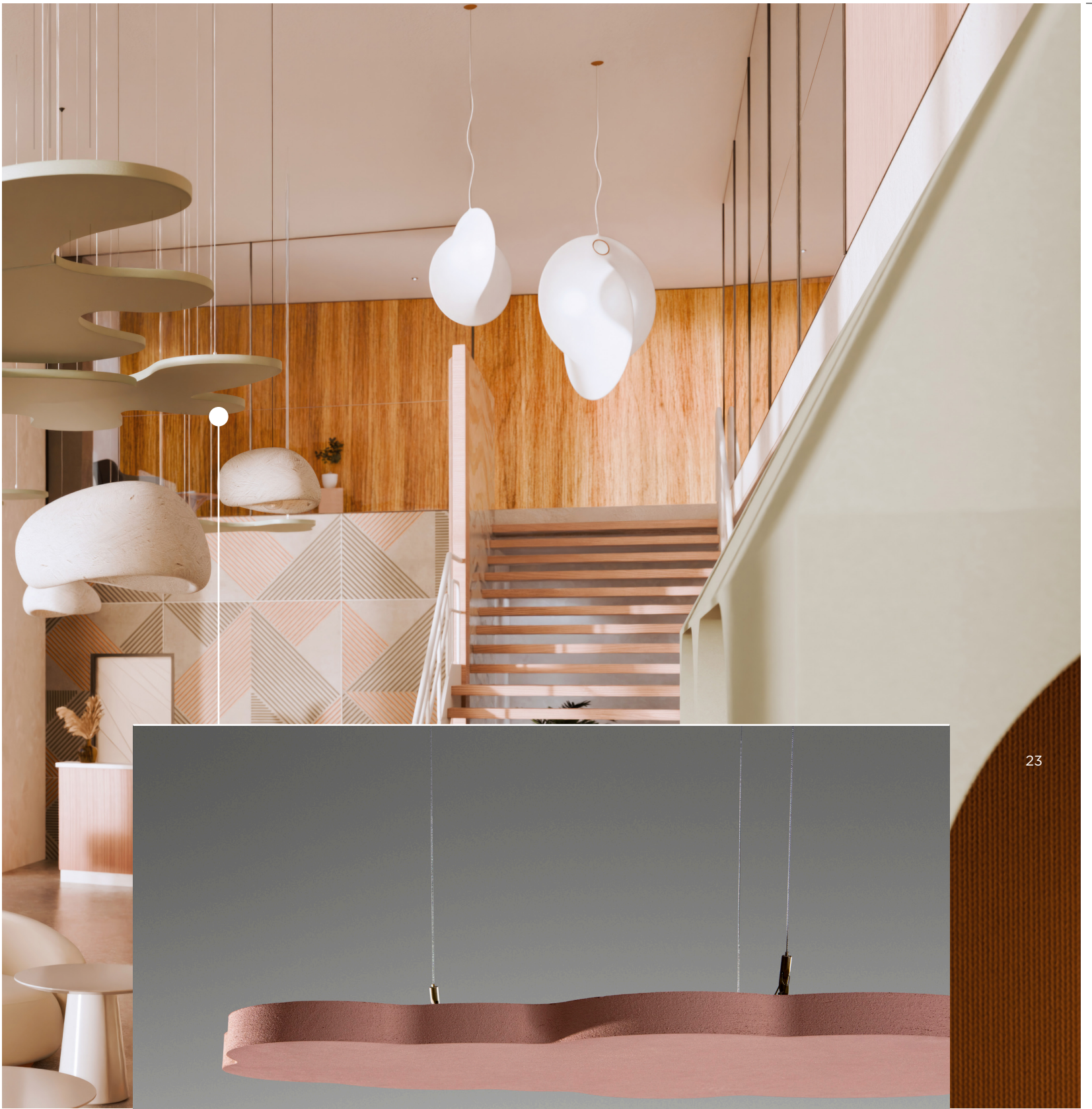
CASE STUDY: ACOUSTIC DESIGN IN A MULTI-PURPOSE SPACE

22

WELCOMING AREA

DESIGNING FOR COMMUNICATION

Free-hanging panels, suspended near the source, create acoustic zones that enhance speech comfort and prevent sound from spreading, ensuring greater privacy.



Ecophon Solo™ Freedom

Offers design freedom as it is available in any shape. Let panels serve as striking focal points or as subtle, discreet elements.

Ecophon Solo™

KEY BENEFITS

- Superior sound absorber
- 22 standard colours or any colour on demand
- Custom shapes and large formats
- Industry-low CO₂ emissions
- Easy installation
- Can be combined with heating and cooling ceiling





A PLACE TO ENCOURAGE CONNECTIONS

FOOD COURT

A café or food court adds an inviting and social ambience. Multiple conversations, music and spacious, open architecture with hard, reflective surfaces generate high sound levels. This can force people to raise their voices to be heard, further increasing the overall noise. This phenomenon is known as the Lombard effect.

To improve the acoustic experience in this space, we need to:

- Reduce background noise from kitchen activity and technical equipment
- Manage high sound levels to avoid the Lombard effect
- Ensure speech clarity

Listen

to a simulation
of this room
before and after
acoustic treatment



81%

*of people avoid dining
places that are too noisy.*

*Source: Survey on noise in restaurants on a
representative sample, France, 2022*

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Ecophon Solo™ Baffle Wave

Using baffles to create distinct zones is an alternative to regulating background noise.
Adjust coverage ratio and height for the desired acoustic experience.


CASE STUDY: ACOUSTIC DESIGN IN A MULTI-PURPOSE SPACE

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FOOD COURT

PLAY WITH CEILING HEIGHT

Working with varying ceiling heights in a dining area will enhance acoustic design. Absorbers placed closer to the sound source help to regulate background noise and control speech propagation.



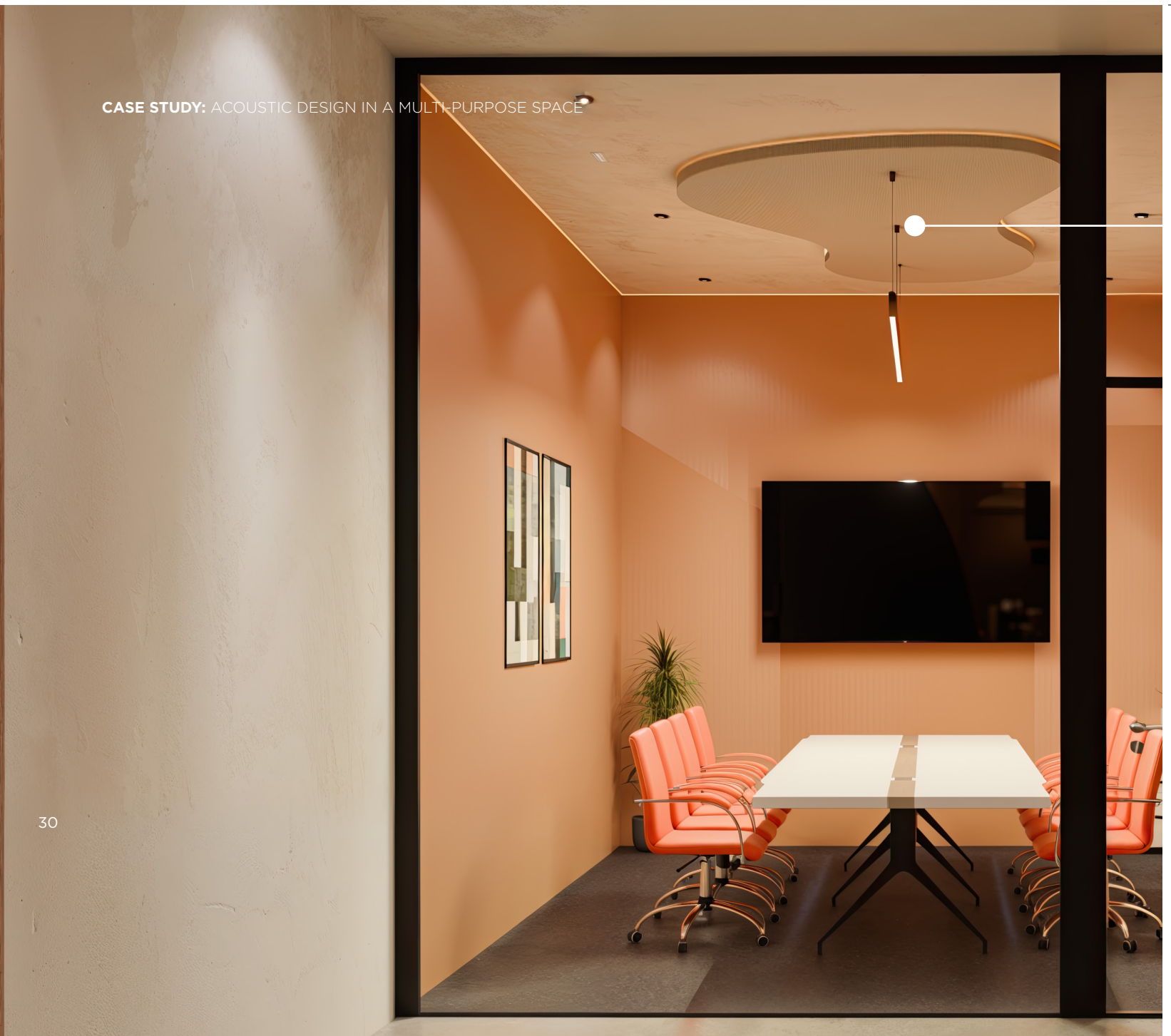
*Restaurant
revenue increased after
refurbishment by **11% y-t-y**,
along with an improved
online rating.**

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Ecophon Clipso™ So Acoustic

With an acoustic fabric solution, you can manage sound reflections from the ceiling while keeping a sleek look.

* Source: Good acoustics as an extra source of income in restaurants – A case study, J.Negreira, N.Oseland, INCE Conference Proceedings, 2019



LET EVERYONE ENGAGE **MEETING ROOM**

Meeting rooms should be able to accommodate various meeting styles, from presentations to group discussions, including remote participants. The aim is for everyone – regardless of age, language, hearing impairment, or neurodiversity – to engage in the conversation and feel fully included.

To improve the acoustic experience in this space, we need to:

- Lower reverberation time
- Ensure speech intelligibility and clarity
- Balance between speech and background noise
- Prevent conversations from leaking outside

Listen

to a simulation
of this room
before and after
acoustic treatment



*A good acoustic
environment can improve
task motivation by 66%.*

*Source: Evans, Johnson, Cornell University,
"Stress and open office noise", Journal of
Applied Psychology, 2000, vol. 85,
no. 5, 779-783.*

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Ecophon Clipso™ So Acoustic

It is optimal to treat two adjacent walls with acoustic fabric to reduce flutter echo and enhance speech clarity. For patch application, always position the centre of the panels at eye level and ensure adequate planning for rooms intended for standing meetings.

Ecophon Clipso™ So Aero

An acoustic island creates a focal point and adds an extra layer of absorption to enhance listening comfort. Available in both standard and custom shapes.

CASE STUDY: ACOUSTIC DESIGN IN A MULTI-PURPOSE SPACE

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MEETING ROOM

ADDING THE FEELING OF WOOD

Wood wool panels combine timeless design with complete acoustic solutions, incorporating Ecophon absorbers and Connect™ grids for effective sound absorption. The natural texture of shredded wood creates a warm atmosphere in the space.

Listen

to a simulation
of this room
before and after
acoustic treatment



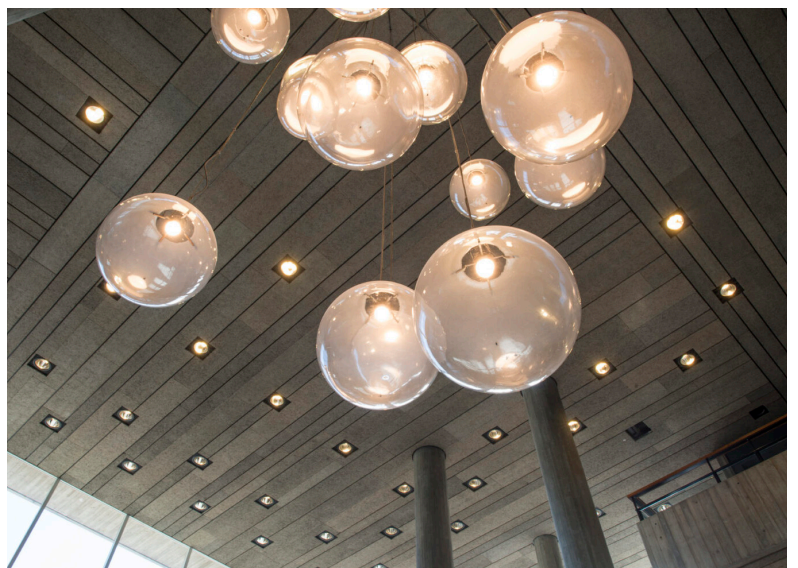
Ecophon Saga™ wood wool

By combining different materials, you can create unique solutions while enhancing both the acoustics and the aesthetics of the room.

Ecophon Saga™

KEY BENEFITS

- Sound absorption up to Class A
- Adds a warm and natural aesthetic
- Contributes to a comfortable indoor climate
- Locally sourced Swedish wood
- 13 colours – or any NCS/RAL colour
- Two installation options: an exposed grid system or edge-to-edge bonding
- Impact resistance (1A, 2A)





*Studies show that colour
contributes to a happier,
healthier and more
engaging environment.*

*Source: Big demands and high expectations,
The Deloitte Millennial Survey, Deloitte,
Page 2, 2014*

FACILITATING TEAMWORK **COLLABORATION AREA**

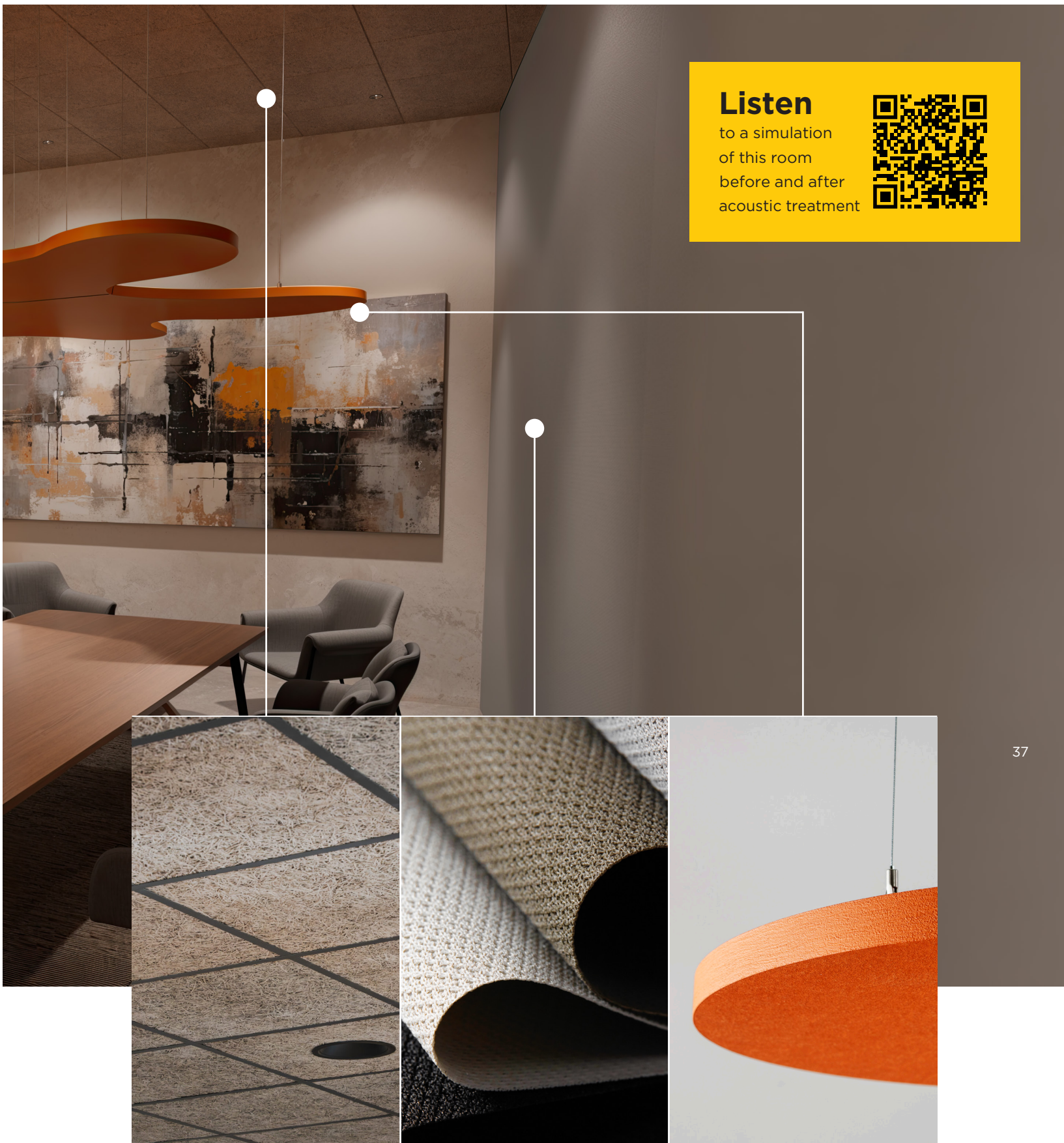
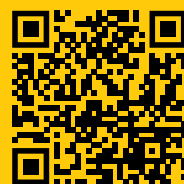
Collaboration zones present several acoustic challenges due to their dynamic nature. The main challenge is to ensure that discussions flow seamlessly. Participants should hear one another clearly without raising their voices, thus escalating the noise. This often requires an acoustic treatment in several steps.

To improve the acoustic experience in this space, we need to:

- Ensure speech clarity at short distances
- Limit overall sound levels to allow for productive discussions
- Prevent speech propagation

Listen

to a simulation
of this room
before and after
acoustic treatment



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Ecophon Saga™ wood wool

Acoustic wood wool panels provide effective sound absorption and a natural vibe. Reduced noise levels will facilitate communication and minimise disturbance for others.

Ecophon Clipso™ So Acoustic

Acoustic treatment on the walls is essential to prevent sound reflections, improve speech clarity, and minimise sound transmission to other areas of the room.

Ecophon Solo™ Freedom

In addition to the ceiling tiles, an acoustic island suspended close to the noise source will further reduce sound levels and improve speech comfort in the zone.

TOOLS & SERVICES

FOR SUPPORT ALL THE WAY

With our tools and services – developed to make acoustics more tangible – you can explore environments and measure the effects, from the conceptual stages to installation.

PROJECT START



Ecophon Immersive Acoustic Experience

The only way to truly understand the value of better acoustics is to experience them yourself. We have developed virtual reality audio tools that demonstrate the critical difference between good and bad acoustics through several virtual rooms and scenarios.

DESIGN PHASE



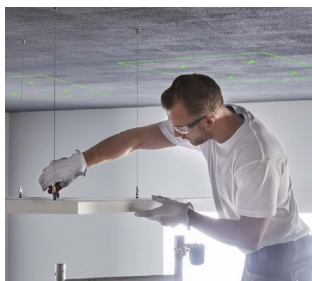
Ecophon Acoustic Calculator

Give an estimation of how the product will affect the room acoustics before it's been built. With this tool you will be able to estimate acoustic values early in the design stage.

Open-Plan Office Calculator

This tool is designed to help you create more productive and comfortable open-plan offices. Based on ISO 22955 standards, it estimates optimal spacing between activities to enhance acoustic comfort.

INSTALLATION



Ecophon laser projection service

Experience faster installations with this cutting-edge solution designed to streamline installation processes. Our system uses advanced laser technology to transform digital plans into precise, real-time visual tools that project directly onto construction surfaces.





