

# EWONA

FOR PERFECT ACOUSTICS

- Ewona Acustica Acoustic Panels
- Solutions for Background Acoustics
- AcuDesign Acoustic Lath Panels
- Acoustic and Thermal Insulation





FOR PERFECT ACOUSTICS

*Our products help you create a clean indoor climate where you can be heard.*

Ewona Finland Oy is a Finnish company whose expertise lies in acoustic solutions. Creating acoustic and insulation solutions that are completely dust and allergy free is our passion, as we spend most of our lives indoors.

We create spaces that stand the test of time, leave room for sound and life, and increase well-being, energy, and productivity. We produce solutions that amplify beneficial sounds, such as speech or music, and attenuate unwanted sounds, such as noise. Our products, made of up to 85% recycled material, create the indoor climate of the future. Our commitment to sustainable development, product safety, and ease of use guide all our activities.

### Recycled and safe materials

We take our responsibility for the environment seriously. All our products are manufactured from environmentally friendly, additive-free and recycled materials. All our polyester fibre products meet the allergy label and the M1 emission and purity classification requirements. The raw materials of the final product are made of up to 85% recycled fibre. The requirements for indoor air quality are constantly becoming more demanding, and we are the only completely allergy-free manufacturer of acoustic solutions on the market. We are proud to meet today's standards – we are committed to making our products dust-free and allergy safe.

### A Wide Range of Products

In addition to acoustic panelling and sound insulation solutions, our product range also includes thermal insulation, filter mats, and furniture wadding.

The main focus of our products is on allergy safety, recycling, and recyclability – and of course functionality. All our products are manufactured from environmentally friendly, additive-free and recycled materials, and all our wool products meet the allergy label and the M1 emission and purity classification requirements. Our products are both designed and manufactured in Finland.



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# EWONA

FOR PERFECT ACOUSTICS



# EWONA'S ACOUSTICS PRODUCTS



## *Creating the perfect indoor climates for work and rest*

Ewona's acoustic panels are made of heat-bound polyester fibres. They are made of 50–80% recycled fibre. The acoustic panels have been granted the right to use the Finnish Allergy, Skin and Asthma Federation's allergy label. The products have also been granted an M1 emission rating.

The acoustic panels do not absorb moisture, and therefore do not provide a favourable growth surface for moulds or other microbes. Installing the dust-free panels is easy, and working without protective equipment will not irritate the airways or the skin. Ewona's acoustic panels will not release harmful particles into the indoor air afterwards.

## Indoor climate – what is it?

Ewona's mission is to improve the indoor climate as a whole. We spend the majority of our lives indoors. Whether we're at home, at work, in hobby spaces, or out in the public, our well-being is constantly affected by air quality, temperature, and acoustics. Indoor climate refers to the combination of all those factors.

## Applications

Ewona's acoustic panels and insulation materials are suitable for almost any construction when your goal is to create comfortable and healthy indoor climates. The products dampen sounds and allow you to control echoes. They also function as thermal insulation.

Acoustics is one of the most important aspects in the design of any interior, as acoustics have a significant impact on comfort, health, and energy. Ewona's acoustic panels are popular with professionals, and they are easy to shape and suitable for most spaces.

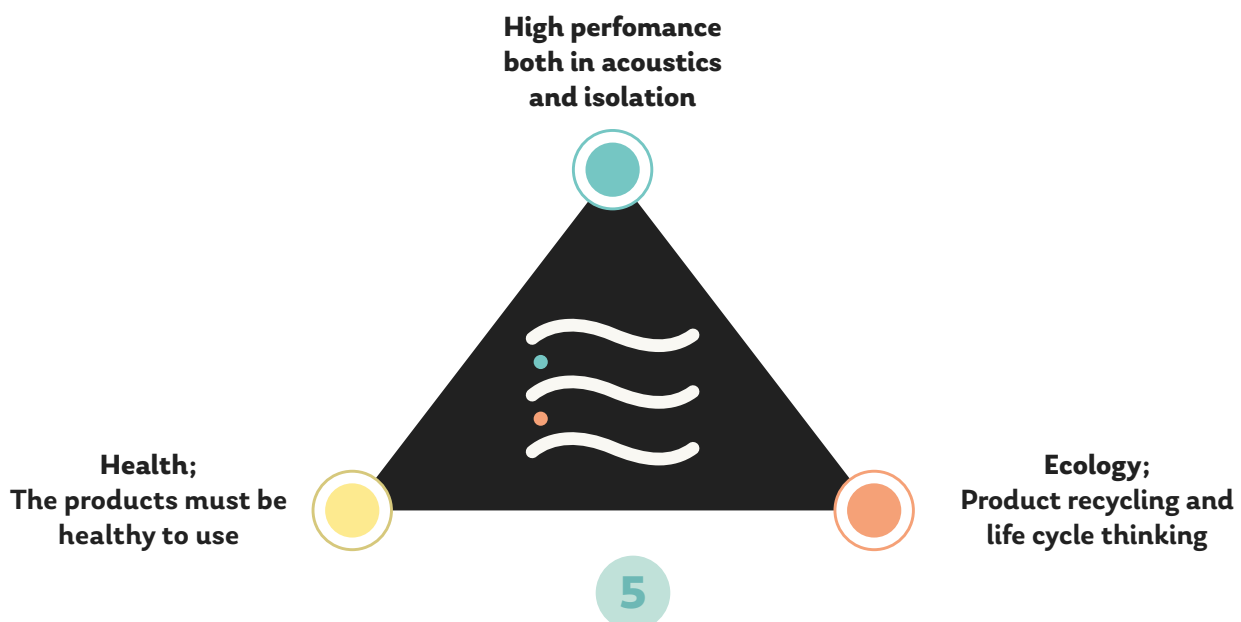
The acoustic panels are attached without painting and encapsulation, so e.g. making holes does not cause problems for indoor air quality later on. Ewona Acustica acoustic panels are particularly well suited for the following applications.

Typical applications of Ewona acoustic and insulation panels include:

- Hospitals and nursing homes
- Schools and daycares
- Swimming pools
- Sports facilities
- Cinemas and concert halls
- Office spaces
- Industrial and production facilities
- Residential construction
- Many other spaces

## What is important to us?

Ewona's product development always aims for the best possible product that both customers and users can enjoy as long as they are in contact with the products. In particular, we are guided by three fundamental principles:



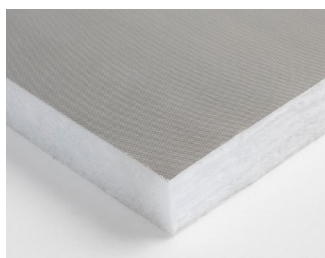
# EWONA ACUSTICA PRODUCTS

The Acustica products have an answer to every need. All Acustica products are suitable for both public construction and private homes. Since their materials are inhospitable to bacterial growth, they are suitable even for damp spaces such as swimming pools.



## Ewona Acustica Basic

Acustica Basic is a high-quality and versatile basic product for improving acoustics. It can be adapted to suit any colour environment, thanks to its colouring and coating options. The Acustica Basic panels can be installed on a trim on suspended ceilings as well as by gluing them directly to the wall or ceiling. The Basic panels are available in several thicknesses, and up to 100 mm by special order.



## Ewona Acustica Excellence

The Acustica Excellence panels are the superior option when the best possible performance is required from the acoustic panelling. Their sturdy covering fabric not only enhances the panel's sound absorption qualities but also braces the panel, making it even easier to handle as well as improving its durability. The Acustica Excellence panels can be installed on a trim on suspended ceilings as well as by gluing them directly to the wall or ceiling. The Excellence panels are available in a variety of thicknesses.



## Ewona Acustica Premium

The Acustica Premium panels are thin, dense, and rigid acoustic panels. The Premium panels are available both uncoated and coated (Premium+). The panels are 20 mm thick and absorb sound very well. The panels are intended to be installed on suspended railing systems, but they can also be glued to a wall or a ceiling. The product's absorption values only indicate the capacity of a suspended installation.



## Ewona Acustica 10

Acustica 10 is the densest and thinnest acoustic panel in the product family. It is only 10 mm thick and suitable for locations where a thicker panel cannot be used, either due to a lack of space or for stylistic reasons. The Acustica 10 panels are always mounted to a background, such as a wall or ceiling. The panels are uncoated, but their surface is treated by ironing, making it pleasantly smooth and slightly glossy.

## Acustica Products Have a Long Life Cycle

In addition to their acoustic performance and health values, the core value of Ewona products lies in their ecological aspects. The products in the Acustica family are largely made of recycled materials. They are designed to last as long as buildings. When the building is demolished one day, the Acustica products used within it can be recycled again completely.

The acoustic panels are very impact resistant. Their impact resistance classification is Class 1A, EN 13964

### Fire classifications

The fire classification of Ewona Acustica acoustic panels is defined according to the EN 13501-1 standard. The fire classification is affected by the installation method. For example, if the panel is coated with gypsum boarding, the fire class will be determined based on the gypsum board used. Product-specific fire classification can be found on the product cards on our website.

	Basic	Excellence	Premium	10
<b>On the surface</b>	Bs2d0	Bs1d0	-	Bs1d0
<b>Suspended</b>	Bs1d0	Bs1d0	Bs1d0	Not to be installed



The Harjavalta sports and swimming hall's acoustic design and sound insulation was carried out by using the Acustica Basic acoustic panels. A product that tolerates moisture and impacts is a very functional choice for a sports and swimming hall's conditions.

*"They adapt to everything. All of our orders have always been converted to Ewona products – also because they can be manufactured as large sheets. Since 2009, Ewona has never once had any delivery difficulties, and everything always happens precisely according to schedule. We haven't had to make a single complaint."*

*Harri Suonperä, Product Manager, Barrisol Oy*

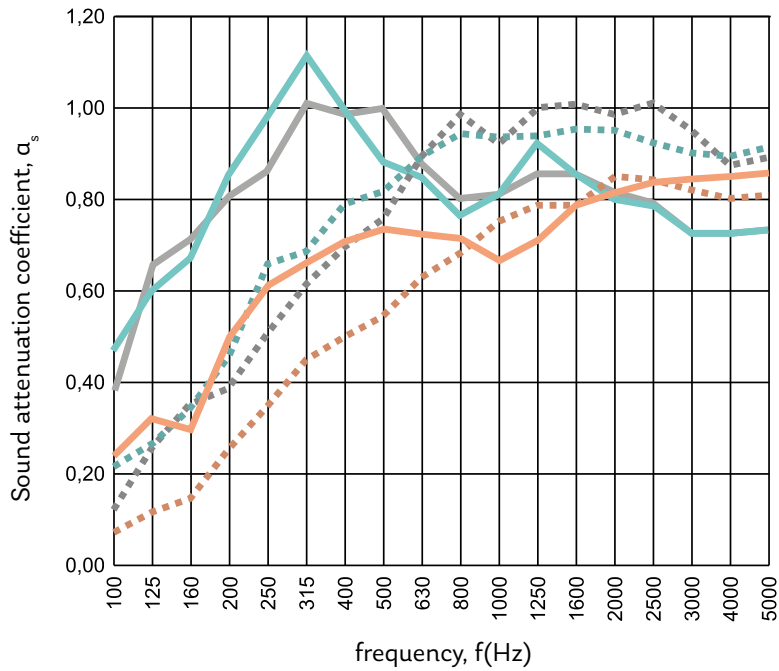
## Dimensions and colours

	Basic	Excellence	Premium	10
<b>Density(kg/m<sup>3</sup>)</b>	24 (50 mm panel) 30 (40 mm) 36 (30 mm)	24 (50 mm panel) 30 (40 mm) 36 (30 mm)	110	156
<b>Thickness(mm)</b>	30, 40 or 50 mm 100 mm on special request	30, 40 or 50 mm 100 mm on special request	20 mm	10 mm
<b>Panel size (mm)</b>	592x592, 592x1192 or customer's measurements	592x592, 592x1192 or customer's measurements	592x592, 592x1192 or customer's measurements	600x2400, 2700 tai 3000 or customer's measurements
<b>Panel colors</b>	White, gray and black	White, gray and black	White and black	White and black
<b>Uncoated</b>	Not available	Not available	Yes	Yes
<b>Coated</b>	Yes	Yes	Yes	On request, optional
<b>Coating colors</b>	Standard colors: White, gray and black  RAL Classic- and NCS color chart available for min. 200 m <sup>2</sup> orders.	Standard colors: White, gray and black  RAL Classic- and NCS color chart available for min. 200 m <sup>2</sup> orders.	Standard colors: White, gray and black  RAL Classic- and NCS color chart available for min. 200 m <sup>2</sup> orders.	White, gray, black as well as RAL Classic- and NCS color chart available for min. 200 m <sup>2</sup> orders.

Learn more about the technical features of the products on our website at [www.ewona.fi](http://www.ewona.fi).

# Ewona Acustica; acoustic properties

Sound attenuation coefficient  $\alpha_s$ , By one-third octave bands



## Ewona Acustica Basic

*Suspended, type E-200 installation*

- 30 mm panel thickness
- 40 mm panel thickness
- 50 mm panel thickness

*Type A installation directly onto the surface*

- - - 30 mm panel thickness
- - - 40 mm panel thickness
- - - 50 mm panel thickness

### Absorption classes

*Panel thickness 50 mm*

Ceiling: B when mounted on a background, A on suspended installations

Wall: B when mounted on a background, B on suspended installations

*Panel thickness 40 mm*

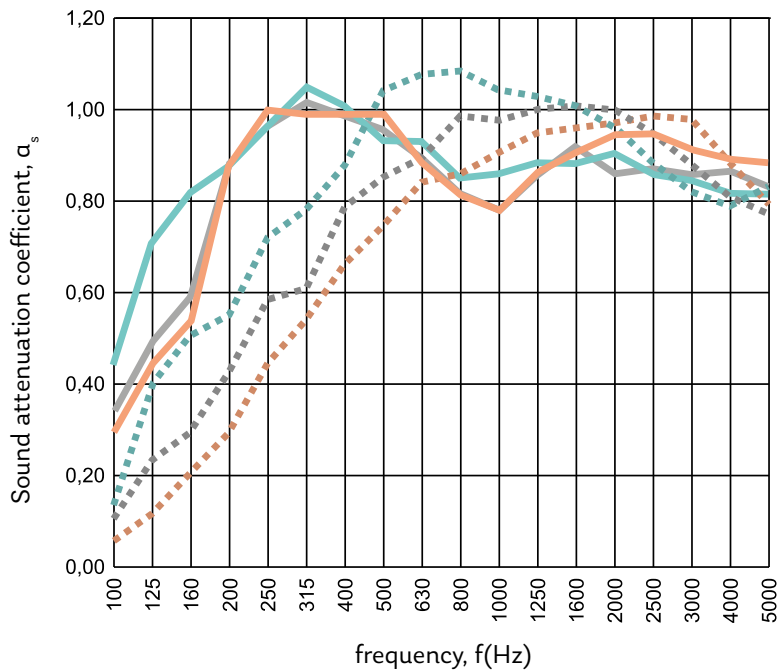
Ceiling: B when mounted on a background, A on suspended installations

Wall: B when mounted on a background, B on suspended installations

*Panel thickness 30 mm*

Ceiling: C when mounted on a background, C on suspended installations

Wall: C when mounted on a background, C on suspended installations



## Ewona Acustica Excellence

*Suspended, type E-200 installation*

- 30 mm panel thickness
- 40 mm panel thickness
- 50 mm panel thickness

*Type A installation directly onto the surface*

- - - 30 mm panel thickness
- - - 40 mm panel thickness
- - - 50 mm panel thickness

### Absorption classes

*Panel thickness 50 mm*

Ceiling: A when mounted on a background, A on suspended installations

Wall: A when mounted on a background, A on suspended installations

*Panel thickness 40 mm*

Ceiling: A when mounted on a background, A on suspended installations

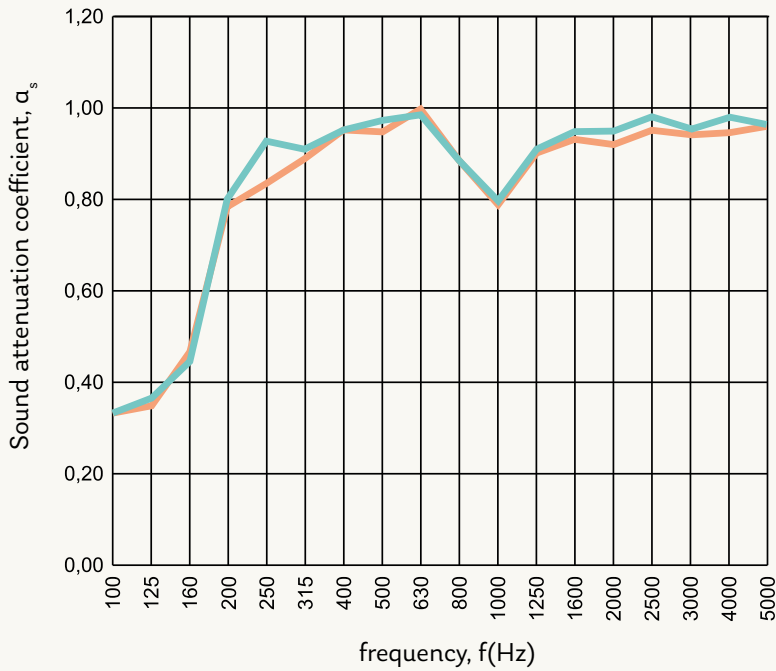
Wall: A when mounted on a background, A on suspended installations

*Panel thickness 30 mm*

Ceiling: C when mounted on a background, A on suspended installations

Wall: C when mounted on a background, A on suspended installations





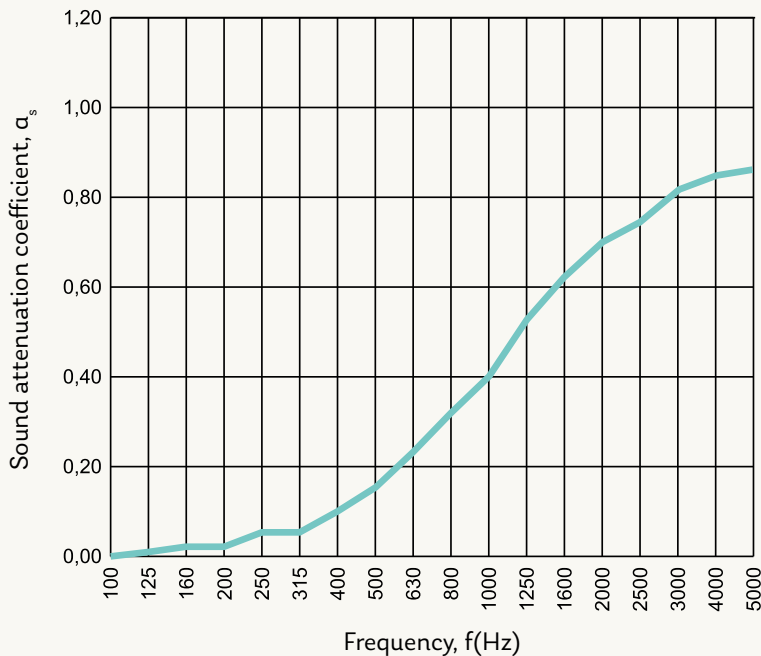
## Ewona Acustica Premium

*Suspended, type E-200 installation*

- 20 mm uncoated
- 20 mm coated

### Absorption classes

A for both coated and uncoated panels.



## Ewona Acustica 10

*Type A installation  
directly onto the surface*

### Absorption classes

B for suspended installation  
E when mounted on a background

### Please note:

An E-200 type installation refers to an installation done in accordance with the measurement standard on a suspended ceiling.

A Type A installation refers to fixing an acoustic panel to a surface such as the walls or the ceiling of a space. This type of fixing is typically done with acoustics or construction glue.



**EWONA**  
FOR PERFECT ACOUSTICS

Ewona's products have been used in the acoustics of the Helsinki Music Centre. Visible acoustic panels were not desired for architectural reasons, so the design utilises background acoustics.

# EWONA BACKGROUND ACOUSTICS

*Effective acoustics that cannot be seen or heard*

Background acoustics refers to installations where acoustic panels need to be out of sight, for example, by installing them inside the walls or behind panelling. Ewona's background acoustics panels are made of the same polyester fibre as the Acustica products, and they're made 50–85% recycled fibre. The products are dust-free and allergy safe.

## Using background acoustics

While the Acustica products are used in plain sight, including as interior design elements to dampen the reflections from sound sources on surfaces, background acoustics aims to dampen sounds within structural elements. A typical use of background acoustic panels is to incorporate them inside suspended ceilings. That way, the panels will dampen the sounds reflected in the airspace between the suspended ceiling and the roof, preventing noise in the room's soundscape.

Background acoustic panels are uncoated, as they're not intended to be seen. Background acoustic panels are an excellent choice when the need for acoustic fittings is minor and you don't want to use visible acoustics products. If the need for acoustics is greater than what can be achieved with visible solutions, background acoustic panels can be used alongside Acustica or AcuDesign products.



## Background Acoustics 10

A version of the Acustica 10 panel developed for background acoustics is also available. These dense, rigid panels are only 10 mm thick, and can be used for acoustics for a variety of spaces where using a thickened panel would not be optimal.

Background Acoustics 10 is primarily available in black, but can also be delivered in white on request.

## Technical dimensions

**Density(kg/m<sup>3</sup>)**

**Thickness(mm)**

**Panel colors**

**Background acoustics**

**Background acoustics 10**

20 or 40	156
25, 30, 50 or 100	10
White. On request also gray and black are available	White and black



# EWONA

FOR PERFECT ACOUSTICS



## Create the Perfect Indoor Climate – Even at a Construction Work Site!

Ewona's acoustic panels and insulation are an ecological and healthy choice in every respect. Where regular insulators can be an outright health hazard, you don't even need a respirator while installing Ewona products. The products can be cut, shaped, handled, and even torn without releasing dust or harmful particles into the air.



Acustica Premium panels were chosen as the acoustic solution for Lifehood homes thanks to its thinness, discreetness and ability to be smoothed with an acoustic screed. Premium panels were also used for background acoustics.

Ewona's products were chosen for the acoustic fittings of Orimattila's new swimming pool and sports hall because they are dust-free and allergy safe, and have been designed with the product's entire life cycle in mind.



# EWONAWOOL INSULATION PANELS

*Allergy safe, dust-free, ecological and effective sound and thermal insulation for all construction*



## Premium Sound and Heat Insulation

Thanks to its excellent insulation properties, Ewona's insulation products are suitable for virtually any construction where sound or heat insulation is required, even in humid conditions. The cutting-edge sound and thermal insulation capacity is a result of the excellent air absorption of the porous structure. The product is used in both residential and public construction as sound and thermal insulation. Its special features include being dust-free and easy to clean.

Our products have also been used, for example, as sound insulation in various premises, booths, and machinery. As the insulation does not retain moisture, does not mould, or become brittle during its service life, it is even suitable for outdoor use. Our sound insulation has even been used in such applications as road and rail noise control solutions. The products retain their soundproofing properties for up to 50 years.

These noise barriers have reached the highest absorption class, A4.



Ewona's insulation is pleasant to handle and install, as they do not release dust or cause itching. The insulation panels are easy to shape with special tools, such as a wool knife or a hole saw, which can be purchased from us along with other products.



<b>Density (kg/m<sup>3</sup>)</b>	20, 30
<b>Thickness(mm)</b>	20, 30, 40, 50, 100 or customer's measurements
<b>Panel size(mm)</b>	565x1170 or customer's measurements
<b>Panel color</b>	White, also available black
<b>Thermal conductivity<math>\lambda</math></b>	0,041 W/mK
<b>Fire classification</b>	B-s1, d0
<b>Impact resistance</b>	Class EN 13964

## Insulating Ventilation Ducts

Ewona's insulation material is also ideal for sound and thermal insulation in ventilation ducts. We have developed a special product family for this purpose, and it is manufactured and sold by Insuplast Finland Oy.

The product range covers all insulation parts for ventilation ducts from Ø100 mm to Ø250 mm ducts. The product range includes 45° and 90° angles, T-branches, and straight insulation parts with the listed diameters. All parts are available uncoated or coated with vapour barrier plastic. Insulation is available in 50 mm and 100 mm thicknesses. 45-degree angles and T-branches are not used in 50 mm insulation because they are easy to make yourself, but they are available for the 100 mm insulation.

For more information, please visit [www.insuplast.fi](http://www.insuplast.fi)



# AcuDesign

by EWONA



Coating pictured: Light imitation oak



# ACUDESIGN PRODUCTS



## Perfect style and a pure soundscape

Ewona's AcuDesign product family features the perfect products for decorators and interior designers. The sound-absorbing acoustic lath panelling suits a wide variety of spaces and needs. Acoustics is one of the most important aspects in the design of any interior, as acoustics have a significant impact on comfort, health, and energy.

You can easily create comfortable and visually attractive indoor decoration solutions for a wide range of spaces with the AcuDesign acoustic lath panels! In addition to your home, it is also a great choice for offices and business premises, reception facilities, hospitals, nursing homes, cinemas, sports facilities, schools, and daycares. AcuDesign creates a pleasant soundscape wherever one is needed!

## Structure and Use of the AcuDesign Lath Panels

The product's back panel is the thin but sturdy Acustica 10 panel, to which the laths are attached. The wide range of coating options includes both genuine wood veneers and a variety of imitation coatings, and it offers stylish and functional options for any space. The AcuDesign panels are easy to shape and install, and suitable for most spaces.

The panels are delivered as sheets, which makes them easy to shape and to install. AcuDesign panelling is an allergy-safe and durable sound absorption material that promotes well-being and increases comfort. The product can be easily cleaned by vacuuming or gently brushing between the laths and wiping the laths and the acoustic panel with a damp cloth. All AcuDesign products are UV lacquered and do not require surface treatment.

The AcuDesign panels are suitable for use in the walls and ceilings of dry indoor environments. They can be installed horizontally, diagonally, or vertically, which increases architectural freedom. can also choose Ewonawool insulation as the building's thermal insulation to create the best indoor air quality and a safe living environment.

## AcuDesign Colour and Coating Options



Genuine ash wood veneer  
+ black back panel



Genuine oak wood veneer  
+ black back panel



Imitation oak  
+ black back panel



Imitation oak  
+ white back panel



Imitation smoky oak  
+ black back panel



Light imitation oak  
+ black back panel



Grey imitation oak  
+ black back panel



Imitation concrete  
+ black back panel



White lacquered imitation ash  
+ white back panel



White  
+ white back panel



Black  
+ black back panel

Please note! The colours of the images may differ from the actual product due to printing.

## Got an Idea?

We also offer AcuDesign lath panelling with different laths and back panel colour options by special order for larger applications. Read more on our website at [www.ewona.fi](http://www.ewona.fi).

If you have a particular coating design idea and application in mind, please get in touch with one of our representatives! Let's find out how to implement your idea and we'll make you an offer.

Coating pictured: Imitation smoky oak



**AcuD**  
by E

Coating pictured: Black





Coating pictured: Imitation oak

**Design**  
**WONA**

Coating pictured: Imitation oak with a white back panel





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