acuphon

Acusorb Medera

Product Range & Technical Details

Revision 4.6

Medera timber acoustic solutions

Product Catalogue

Architectural Acoustics

Featuring Acusorb® Medera Perforated
(Version 4.6 2025)

In a world increasingly shaped by noise, true acoustic comfort becomes something exceptional - a quality to be protected and valued, preserving the clarity, balance and purity of sound.

At Acuphon, powered by Ideatec, we transform noise into acoustic comfort, shaping spaces that enhance wellbeing and deliver a truly refined acoustic experience.

Index

Acusorb Medera Products

Refined acoustic solutions for exceptional spaces.

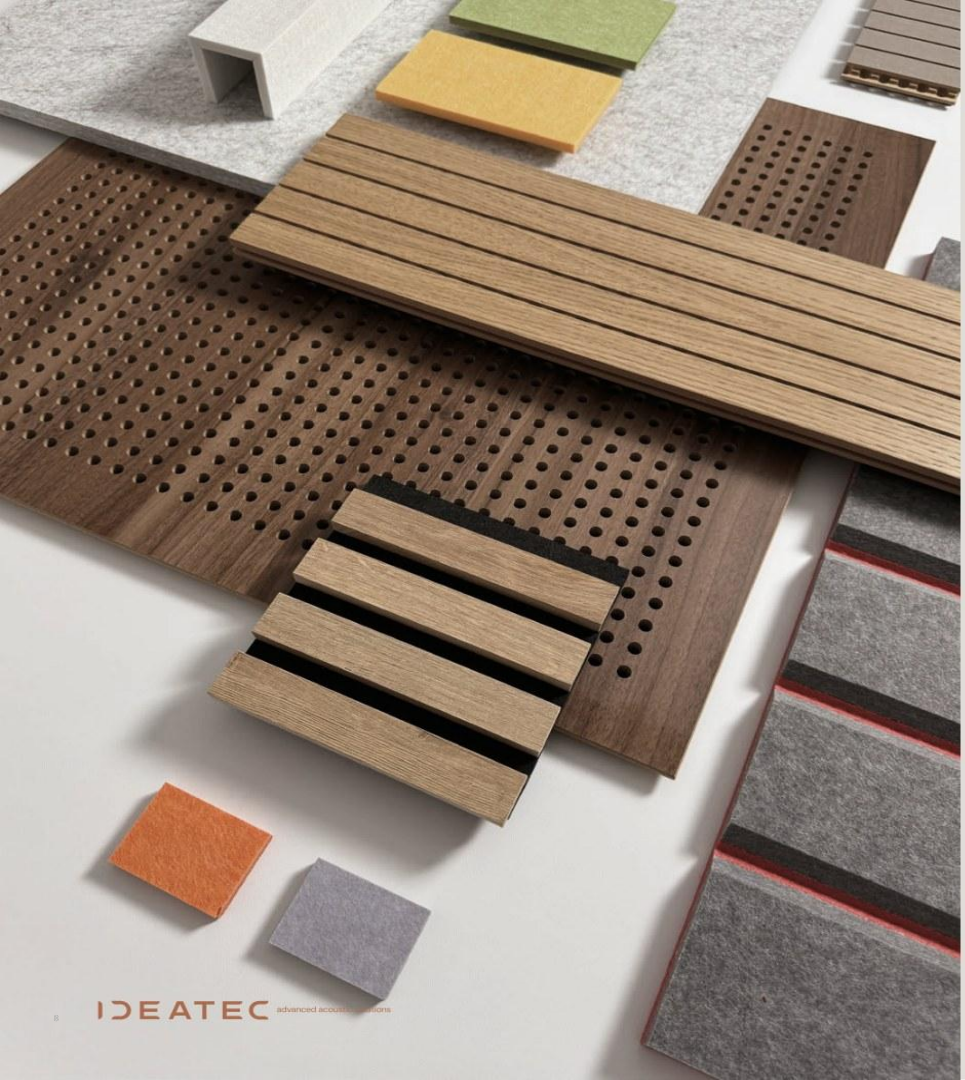
About Acuphon

At Acuphon, we curate and deliver exceptional acoustic solutions for discerning architectural and interior projects. Through partnerships with world-leading acoustic solution manufacturers, we bring together refined design, technical excellence and outstanding performance.

We work at the intersection of acoustics, craftsmanship and aesthetics, offering sophisticated systems for walls, ceilings and specialist interior applications. Each solution is selected to meet the precise demands of the project, balancing acoustic control, compliance and visual elegance.

Our carefully chosen manufacturing partners are recognised internationally for quality, innovation and reliability, enabling us to provide premium acoustic products with proven performance and respected certification standards.

At Acuphon, we believe true acoustic comfort is a hallmark of exceptional space design - enhancing wellbeing, elevating experience and bringing a sense of calm, clarity and luxury to the built environment.



A refined range of grooved, perforated and slatted acoustic panels, manufactured from fire-rated B-s1,d0 MDF

AcuSorb Medera

The AcuSorb Medera range, powered by Ideatec, delivers excellent acoustic comfort in spaces where design quality is just as important as performance. Suitable for both walls and ceilings, the panels are based on a system of grooves in varying widths and perforation diameters, allowing them to be tailored to a wide range of technical and aesthetic requirements.

These systems are widely used in contemporary architecture for their ability to combine refined design with effective acoustic absorption. With AcuSorb Medera, we achieve a distinctive finish particularly suited to commercial spaces, auditoriums and any interior where high-quality acoustic conditioning and visual elegance are equally important.

Ideacustic

Standard 32 | High 16 | Pro 11 | Pro 11 R | Pro 8 | Mix

Range of grooved acoustic panels made from fire-rated B-s1,d0 MDF

The Ideacustic range delivers excellent acoustic comfort in spaces where design quality is just as important as performance. Suitable for both walls and ceilings, the panels are based on a system of grooves in varying widths and perforation diameters, allowing them to be tailored to a wide range of technical and aesthetic requirements.

These systems are widely used in contemporary architecture for their ability to combine refined design with effective acoustic absorption. With Ideacustic, we achieve a distinctive finish particularly suited to commercial spaces, auditoriums and any interior where high-quality acoustic conditioning and visual elegance are equally important.

Acusorb Medera Slotted (Grooved) Acoustic Panels.

Ideacustic Range

Medera Standard 32

A high-performance MDF acoustic panel developed for spaces where considered acoustic control is required. It is ideal for large-volume interiors such as theatres and auditoria, while also being equally suited to restaurants, shops and lounge areas

Technical data
Application: Walls and ceilings
Size: 2430 × 160 × 16 mm
Composition: Medium-density fibreboard (MDF)
Weight: 10.8 kg/m²
Density: 750 kg/m³

Acoustic performance: αm = 0.70, αw = 0.70, NRC = 0.65

Medera High 16

An MDF acoustic panel designed to deliver high-performance sound absorption across a broad frequency range. Featuring 16 mm spacing between slots, High 16 provides an effective acoustic solution for demanding interior applications.
Its wide-band acoustic behaviour makes it a popular choice among architects, acousticians and interior specialists.

Technical Data
Application: Walls and ceilings
Size: 2430 × 160 × 16 mm
Composition: Medium density fibreboard MDF
Weight: 9.26 kg/m³
Density: 750 kg/m³

Acoustic performance: αm = 0.85, αw = 0.85, NRC = 0.80

Medera Pro 8

An MDF acoustic panel featuring an 8 mm gap between slots, designed to provide effective sound absorption across a wide frequency range. Pro 8 is particularly suitable for spaces where only a limited amount of acoustic treatment can be installed, helping to maximise absorption performance within a reduced panel area.

Technical Data
Application: Walls and ceilings
Size: 2430 × 160 × 16 mm
Composition: Medium density fibreboard MDF
Weight: 7.46 kg/m³
Density: 750 kg/m³

Acoustic performance: αm = 0.85, αw = 0.80, NRC = 0.75

Medera Pro 11

An MDF acoustic panel with 11 mm slot spacing, offering strong sound absorption with a refined aesthetic suitable for a wide range of interiors. It can be used on its own or combined with plain panels to create a high-quality acoustic and decorative finish. The rounded version is derived from the Pro 11 profile, improving its aesthetic and diffusive qualities with a softer rounded effect, making it suitable for lacquered finishes in any colour. The mixed groove version combines 16 mm and 32 mm groove spacing to optimise sound absorption while offering a high-quality acoustic solution adaptable to many spaces.

Technical Data
Application: Walls and ceilings
Size: 2430 × 160 × 16 mm
Composition: Medium density fibreboard MDF
Weight: 8.36 kg/m³
Density: 750 kg/m³

Acoustic performance: αm = 0.95, αw = 0.85, NRC = 0.90

Medera Pro 11R

An MDF acoustic panel derived from the Ideatec Acoustic Pro 11 profile, developed to enhance both aesthetic and diffusive performance. The rounded groove effect creates a softer, more refined appearance, making the panel especially suitable for lacquered finishes in any colour.

Technical Data
Application: Walls and ceilings
Size: 2430 × 160 × 16 mm
Composition: Medium density fibreboard MDF
Weight: 8.36 kg/m³
Density: 750 kg/m³

Acoustic performance: αm = 0.95, αw = 0.85, NRC = 0.90

Medera Mix 16/32

An MDF acoustic panel featuring an innovative combination of 16mm and 32mm groove spacing, designed to optimise sound absorption while providing a refined linear appearance. This high-quality acoustic solution is suitable for a wide range of wall and ceiling applications and can be adapted to many interior design schemes.

Technical Data
Application: Walls and ceilings
Size: 2430 × 160 × 16 mm
Composition: Medium density fibreboard MDF
Weight: 9.26 kg/m³
Density: 750 kg/m³

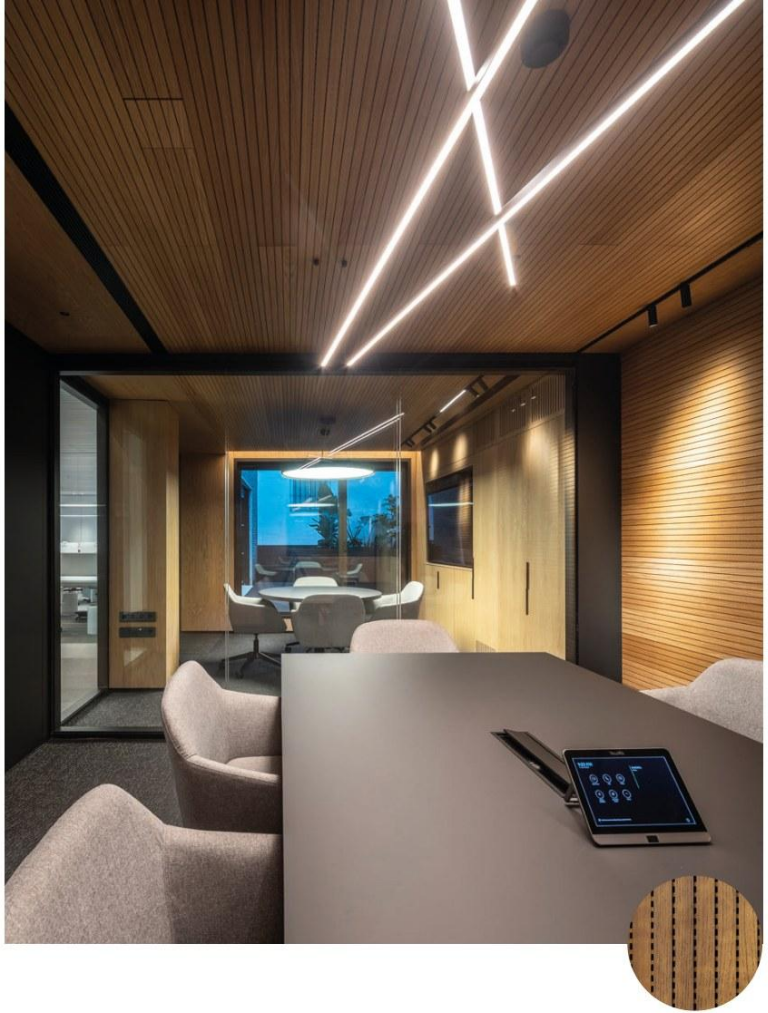
Acoustic performance: αm = 0.85, αw = 0.85, NRC = 0.80

Acusorb Medera.

Ideacustic Projects

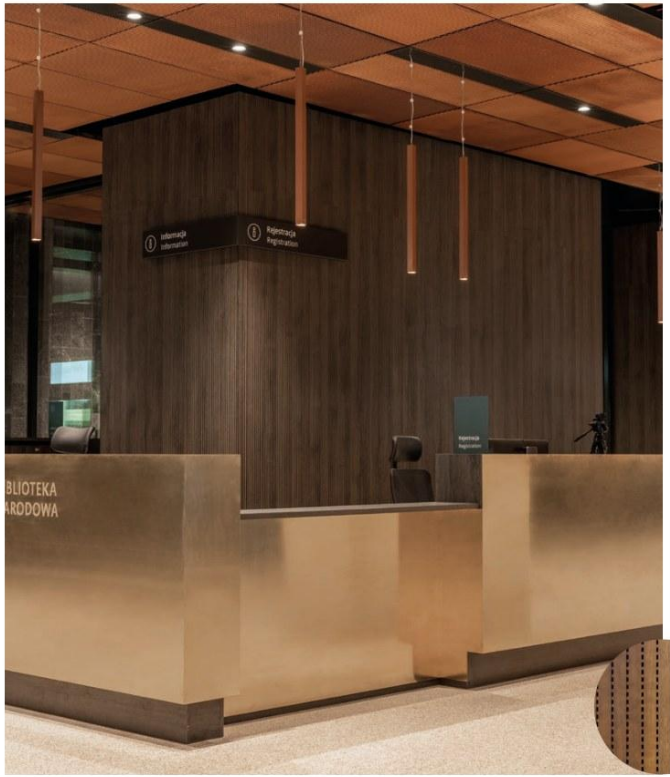
WORKSPACES.

Project: Caja Rural Headquarters
Architect: Studio Baum Arquitectura
Product: Ideacustic Standard 32
Finish: Oak Veneer.



Acusorb Medera.

Ideacustic Projects



PUBLIC SPACES.

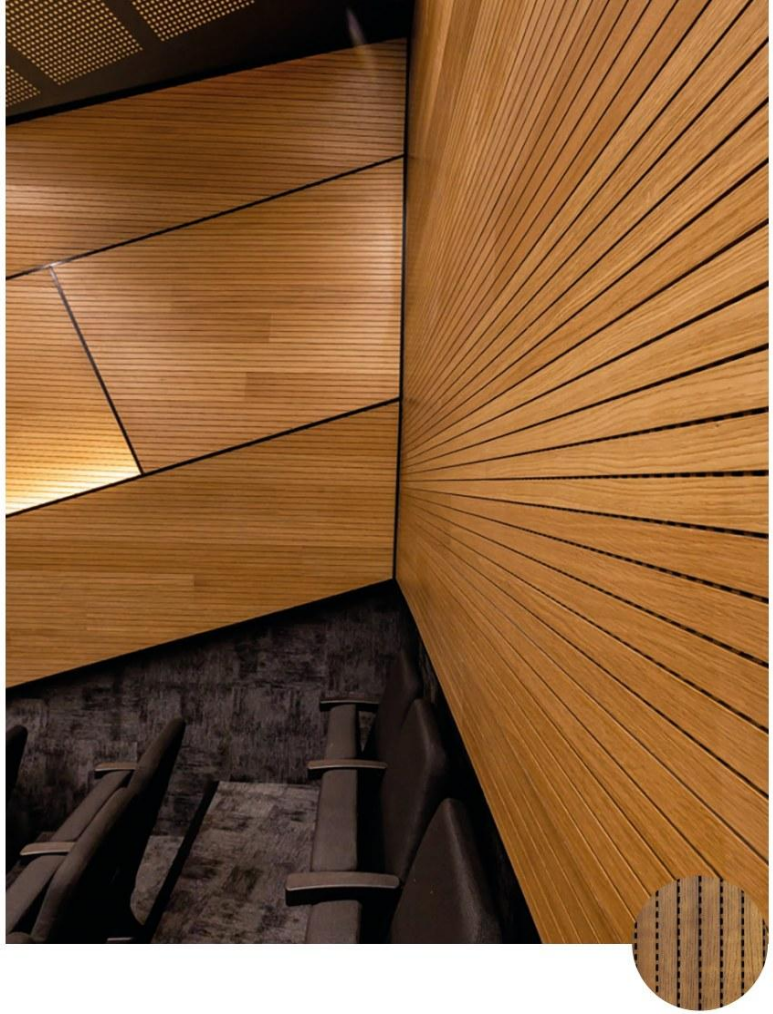
Project: National Library
Architect: Konior Studio
Product: Ideacustic High 16 and Standard 32 flex options
Finish: Anthracite Sherman Oak (Egger).

Acusorb Medera.

Ideacustic Projects

EDUCATIONAL SPACES.

Project: Curro School, Durbanville
Architect: BPAS Architects
Product: Ideacustic Standard 32
Finish: Oak Veneer

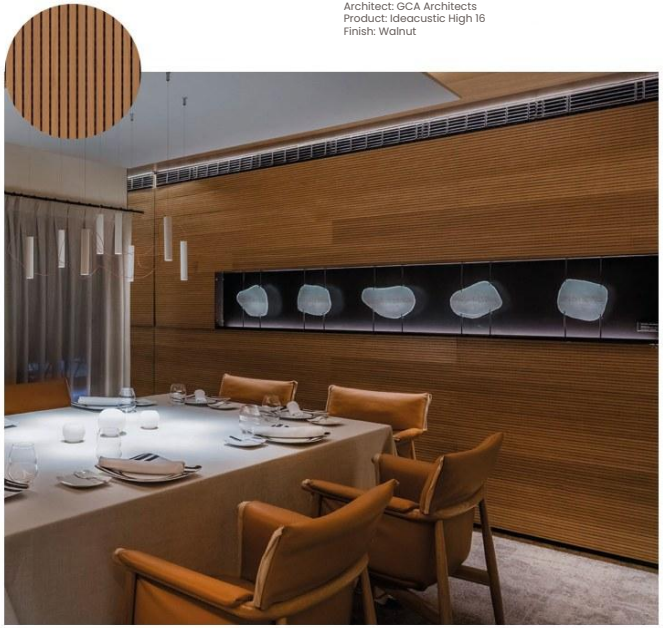


Acusorb Medera.

Ideacustic Projects

HOTELS & RESTAURANTS.

Project: Cram Hotel / Angle Restaurant
Architect: GCA Architects
Product: Ideacustic High 16
Finish: Walnut

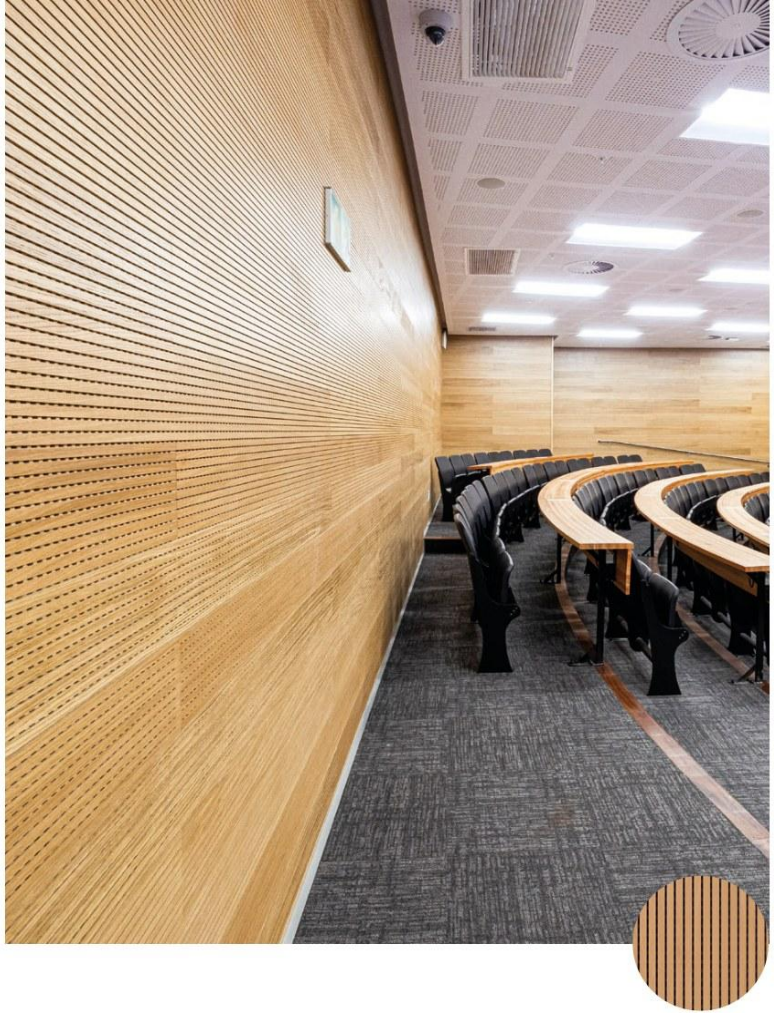


Acusorb Medera.

Ideacustic Projects

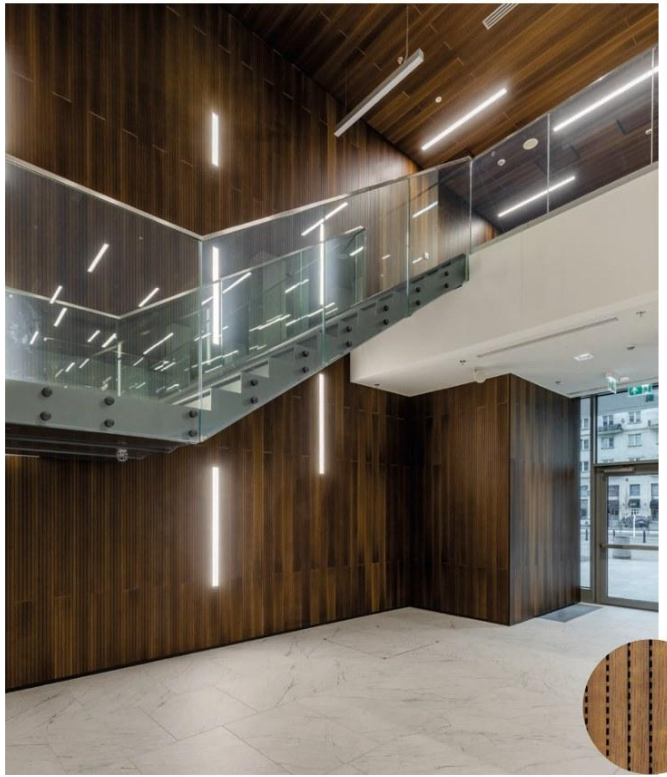
EDUCATIONAL SPACES.

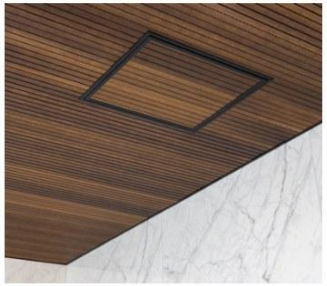
Project: Chis Hani Auditorium
Architect: Jakupa Architects and Urban Designers
Product: Ideacustic High 16
Finish: **Beech Veneer**



Acusorb Medera.

Ideacustic Projects





PUBLIC SPACES.

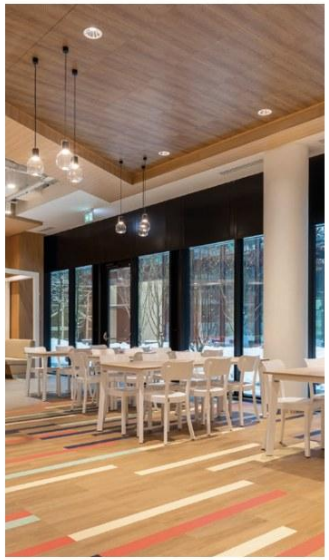
Project: Central Point Building
Architect: Kazimiersi & Ryba
Product: Ideacustic Standard 32
Finish: Falla Walnut

Acusorb Medera.

Ideacustic Projects

RESTAURANTS.

Project: Lixa coffee shop
Architect: Kazimiersi & Ryba
Product: Ideacustic Pro 8
Finish: Roble Oak.



RESTAURANTS.

Project: City Hotel Restaurant
Architect: Kazimiersi & Ryba
Product: Ideacustic Standard 32
Finish: Rivera Beech.

Acusorb Medera.

Ideacustic Projects

AUDITORIUMS.

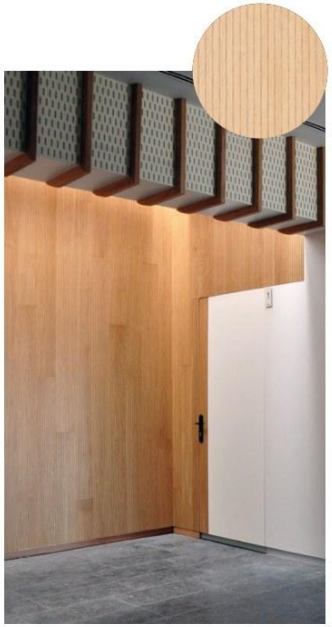
Project: Auditorium
Product: Ideacustic Mix Groove 16/32
Finish: Évora Ash.

Acusorb Medera.

Ideacustic Projects

AUDITORIUMS.

Project: Moise Safra Auditorium
Product: Ideacustic Pro 8
Finish: Cherry.



EDUCATIONAL SPACES.

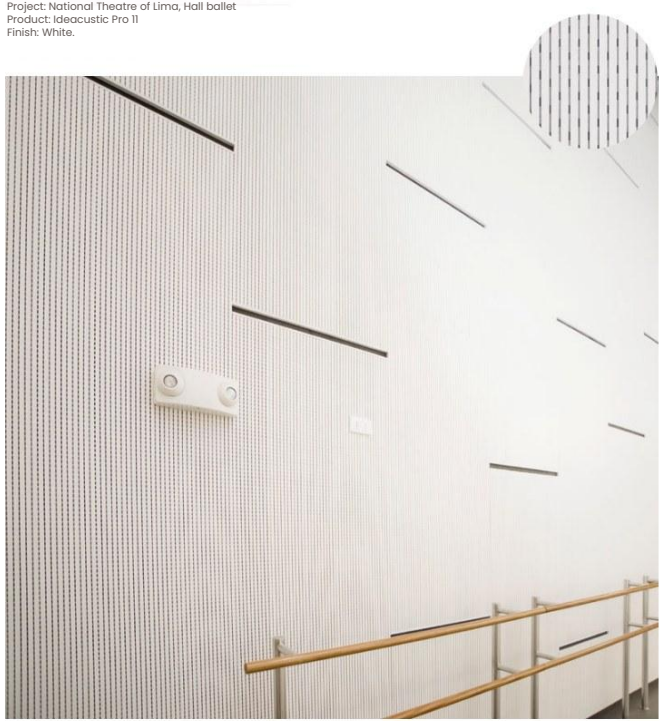
Project: Khalifa University (Abu Dhabi)
Product: Ideacustic Pro 11R
Finish: Green.

Acusorb Medera.

Ideacustic Projects

EDUCATIONAL SPACES.

Project: National Theatre of Lima, Hall ballet
Product: Ideacustic Pro 11
Finish: White.



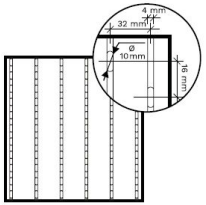
RESTAURANTS.

Project: Club Nora Restaurant
Product: Ideacustic Standard 32
Finish: Beech.

Acusorb Medera.

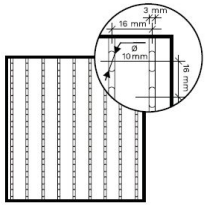
Ideacustic

Panel Profiles and Slot Configurations .



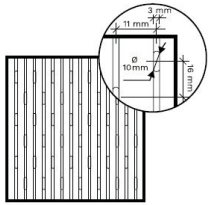
Standard 32

Modules: 2430 × 160 × 16 mm modules with 2, 3 or 4 mm slots at 32 mm centres, plus 10 mm rear perforations.



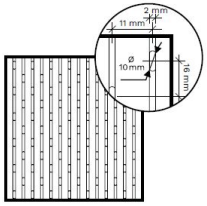
High 16

Modules: 2430 × 160 × 16 mm modules with 2, 3 or 4 mm slots at 16 mm centres, plus 10 mm rear perforations.



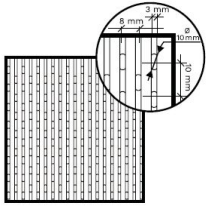
Pro 11

Modules: 2430 × 160 × 16 mm modules with 2 or 3 mm slots at 11 mm centres, plus 10 mm rear perforations.



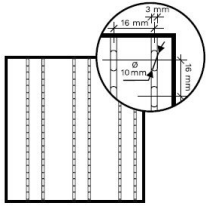
Pro 11R

Modules: 2430 × 160 × 16mm modules with 2 mm slots at 11mm centres, plus Ø10mm rear perforations



Pro 8

Modules: 2430 × 160 × 16mm modules with 2 or 3mm slots at 8mm centres, plus Ø10mm rear perforations.



Mix

Modules: 2430 × 160 × 16mm modules with 2, 3 or 4mm slots at alternating 16/32mm centres, plus Ø10mm rear perforations.

Technical data

TECHNICAL CHARACTERISTICS.

	Standard 32	High 16	Pro 11	Pro 11R*	Pro 8	Mix 16/32
Dimensions	2430 x 160 x 16mm					
Tolerance	(Length × Width): ±1.5mm tolerance					
Perforation open area	5.74%	11.47%	8.60%	5.78%	11.47%	5.79%
Finishing	Melamine, veneer or lacquered finish available in RAL, Pantone or NCS colour references.			Available in RAL, Pantone or NCS colour references.	Melamine, veneer or lacquered finish available in RAL, Pantone or NCS colour references.	
Backing Fleece	Black acoustic fleece, 0.25 mm thick, bonded to the rear of the panel.					
Reaction to Fire	Fire Classification (EN 13501-1): B-s2, d0					

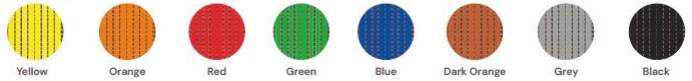
***Other support materials and dimensions available on request.**

FINISHES.

Standard melamines.

Standard veneer sheets.

Lacquered MDF panels.

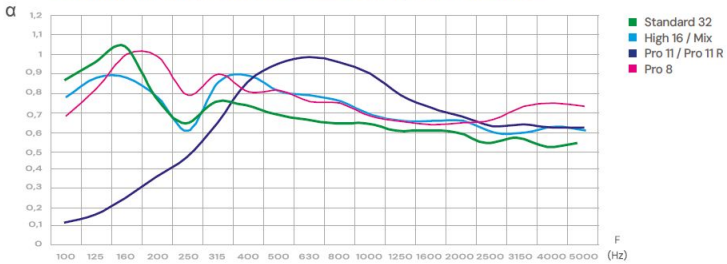


Acusorb Medera.

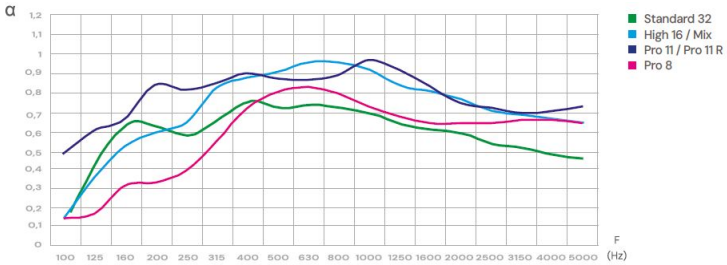
Ideacustic

Acoustic Test Installation Build-Up (Indicative)

IC 32 / 16 / Mix / 11 / R11: 210mm plenum with 40mm mineral wool infill
IC 8: 200mm plenum with 40mm mineral wool infill

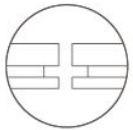


IIC 32 / 16 / Mix / 11 / R11: 50mm plenum with 40mm mineral wool infill
IC 8: 40mm plenum with 40mm mineral wool infill

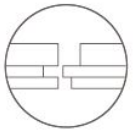


Standard Installation System Details for Cladding and False Ceilings

Double Female



Male - Female



Storage & Conditioning
Materials should be stored at the installation site for a minimum of 24 hours prior to installation.
Recommended Conditions:
Temperature: 18°C to 25°C
Relative Humidity: 40% to 60%

Technical data

Technical Specification by Panel Type

Data Studied	Standard 32	High 16	Pro 11	Pro 11R*	Pro 8	Mix 16/32
Dimensions	2430 x 296mm	2430 x 296mm	2430 x 160mm	2430 x 160mm	2430 x 128mm	2430 x 296mm
Thickness	16mm	116mm	16mm	16mm	16mm	16mm
Slot Width	4mm	3mm	3mm	3mm	3mm	3mm
Rear Perforation Diameter	10mm	10mm	10mm	10mm	10mm	10mm
Density	750 kg/m³ (+/- 6%)	750 kg/m³ (+/- 6%)	750 kg/m³ (+/- 6%)	750 kg/m³ (+/- 6%)	750 kg/m³ (+/- 6%)	750 kg/m³ (+/- 6%)
Weight	10.8 kg/m²	9.26 kg/m²	8.36 kg/m²	8.36 kg/m²	7.46 kg/m²	9.26 kg/m²

*** Weight may vary depending on finish and machining.**

Acoustic Performance by Panel Type and Installation Build-Up

Acoustic Test Data	Standard 32 / High 16		High 16 / Mix		Pro 11 / Pro 11R		Pro 8	
Average sound absorption coefficient (α_m)	**0.60**	0.70	**0.75**	0.85	**0.95**	0.95	**0.70**	0.85
Weighted sound absorption coefficient (α_w)	**0.70**	0.70	**0.80**	0.85	**0.80**	0.85	**0.75**	0.80
Noise Reduction Coefficient **(NRC)**	**0.65**	0.65	**0.75**	0.80	**0.85**	0.90	**0.80**	0.75
Absorption Class	**C**	C	**B**	B	**B**	B	**C**	B

Installation Build-Up (Test Conditions)

- **Ideacustic 32 / 16 / Mix / 11 / R11:** **210mm plenum + 40mm mineral wool** / 50mm plenum + 40mm mineral wool
- **Ideacustic 8:** **200mm plenum + 40mm mineral wool** / 40mm plenum + 40mm mineral wool

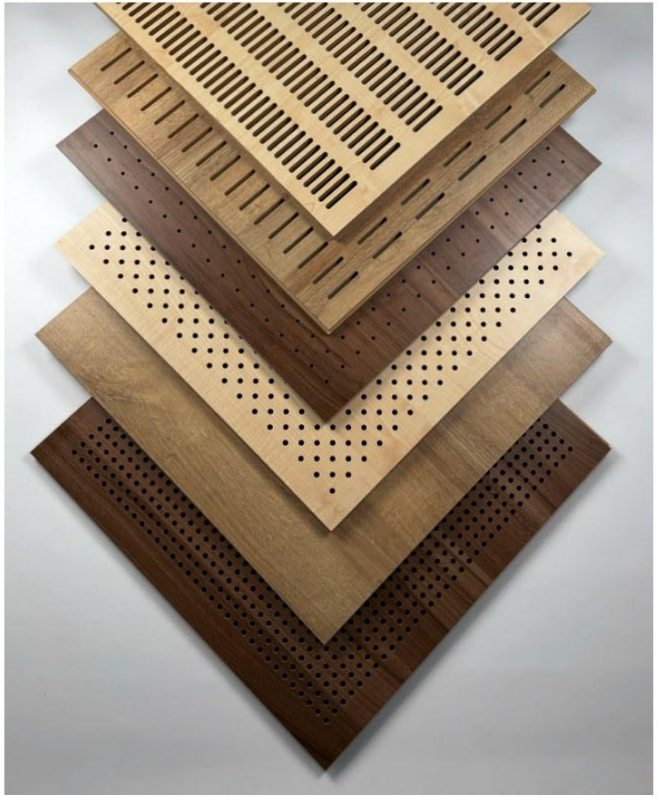
Ideaperfo

T32 | T16 | Mi | Microacustic | Micro 05 | Design | R16 | R32

Range of perforated acoustic panels made from fire-rated B-s1,d0 MDF

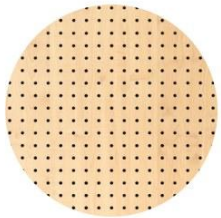
Ideaperfo sound-absorbing panels for walls and ceilings are manufactured from fire-rated MDF, classified B-s1, d0. The range is available with different perforation patterns, hole diameters and finishes, including melamine, natural wood veneer and lacquered options.

Ideaperfo panels provide a flexible solution for tailored acoustic conditioning, allowing different levels of absorption and visual finishes to be achieved depending on the selected pattern and configuration.



Acusorb Medera Perforated Acoustic Panels.

Ideaperfo Range



T32

Ideaperfo T32 is an MDF acoustic panel with perforations spaced at 32mm centres, both vertically and horizontally. It provides an effective balance of sound absorption, visual consistency and cost efficiency.
Suitable for wall and ceiling applications, the panel offers a clean perforated appearance while helping to improve acoustic comfort in interior spaces.

Technical Data
Application: Walls and ceilings
Size: 600 × 600 × 12mm
Composition: Medium density fibreboard MDF
Weight: 9.17 kg/m²
Density: 750 kg/m³

Acoustic performance: αm = 0.40, αw = 0.25, NRC = 0.45

**** High absorption performance at medium and low frequencies.***

T16

Ideaperfo T16 is an MDF acoustic panel with staggered perforations at 16mm centres, combining effective sound absorption with a refined wood finish.
Designed for wall and ceiling applications, it provides a practical acoustic solution for larger spaces where both performance and appearance are important.

Technical Data
Application: Walls and ceilings
Size: 600 × 600 × 12mm
Composition: Medium density fibreboard MDF
Weight: 9.10 kg/m²
Density: 750 kg/m³

Acoustic performance: αm = 0.55, αw = 0.30, NRC = 0.55

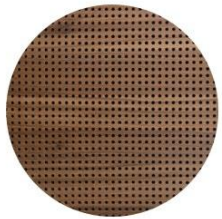
**** High absorption performance at medium and low frequencies.***

Mi

Ideaperfo Mi is an MDF acoustic panel with 6mm diameter perforations at 16 mm centres. The level of sound absorption is influenced by the percentage of open area, allowing the panel to be selected to suit specific acoustic requirements, such as controlling reverberation.
Suitable for wall and ceiling applications, it provides a balanced solution between acoustic performance and visual consistency.

Technical Data
Application: Walls and ceilings
Size: 600 × 600 × 12mm
Composition: Medium density fibreboard MDF
Weight: 8.53 kg/m²
Density: 750 kg/m³

Acoustic performance: αm = 0.60, αw = 0.50, NRC = 0.55



Microacoustic

Microacoustic is a high-performance MDF acoustic panel featuring 2mm diameter perforations at 8mm centres. This configuration delivers enhanced sound absorption, making it particularly suitable for environments where strong acoustic control is required.
Ideal for restaurants, offices, conference and meeting rooms, lecture theatres and other shared spaces, the panel helps manage reverberation while maintaining a clean, consistent finish.

Technical Data
Application: Walls and ceilings
Size: 600 × 600 × 12mm
Composition: Medium density fibreboard MDF
Weight: 7.82 kg/m²
Density: 750 kg/m³

Acoustic performance: αm = 0.70, αw = 0.35, NRC = 0.70

**** High absorption performance at medium and low frequencies.***

Acusorb Medera Perforated Acoustic Panels.

Ideaperfo Range

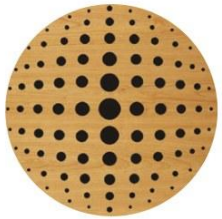
Micro 05

Micro 05 is a high-performance MDF acoustic panel designed for large wall and ceiling areas where a smooth, refined surface appearance is required.
With 0.5mm micro-perforations on the visible face, the panel delivers strong acoustic absorption while maintaining a discreet, elegant finish.

Technical Data
Application: Walls and ceilings
Size: 600 × 600 × 16 mm
Composition: Medium density fibreboard MDF
Weight: 7.64 kg/m²
Density: 750 kg/m³

Acoustic performance: αm = 0.75, αw = 0.60, NRC = 0.75

**** High absorption performance at medium and low frequencies.***



Design

Design is a perforated MDF acoustic panel for wall and ceiling applications, suitable for large interior spaces where effective sound absorption and visual flexibility are required.
The panel can be customised to create different perforation layouts, allowing the acoustic finish to be adapted to the design requirements of each project.

Technical Data
Application: Walls and ceilings
Size: 600 × 600 × 12 mm
Composition: Medium density fibreboard MDF
Weight: 3.25 kg/m²
Density: 750 kg/m³

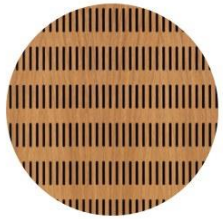
Acoustic performance: αm = 0.65, αw = 0.55, NRC = 0.60

R16

R16 is an MDF slotted acoustic panel with a classic, timeless linear appearance.
The slots are spaced at 16mm horizontally and 37mm vertically, providing a strong balance of acoustic absorption, aesthetics and value.
Suitable for wall and ceiling applications, R16 allows high-quality acoustic finishes to be achieved at a medium cost.

Technical Data
Application: Walls and ceilings
Size: 600 × 600 × 12mm
Composition: Medium density fibreboard MDF
Weight: 7.92 kg/m²
Density: 750 kg/m³

Acoustic performance: αm = 0.65, αw = 0.55, NRC = 0.60

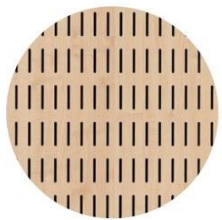


R32

R32 is an MDF slotted acoustic panel with slot spacing of 32mm horizontally and 37 mm vertically. By varying the slot pattern and width, different levels of absorption and visual effect can be achieved.
Suitable for acoustic walls, wall cladding and sound-absorbing timber ceiling applications.

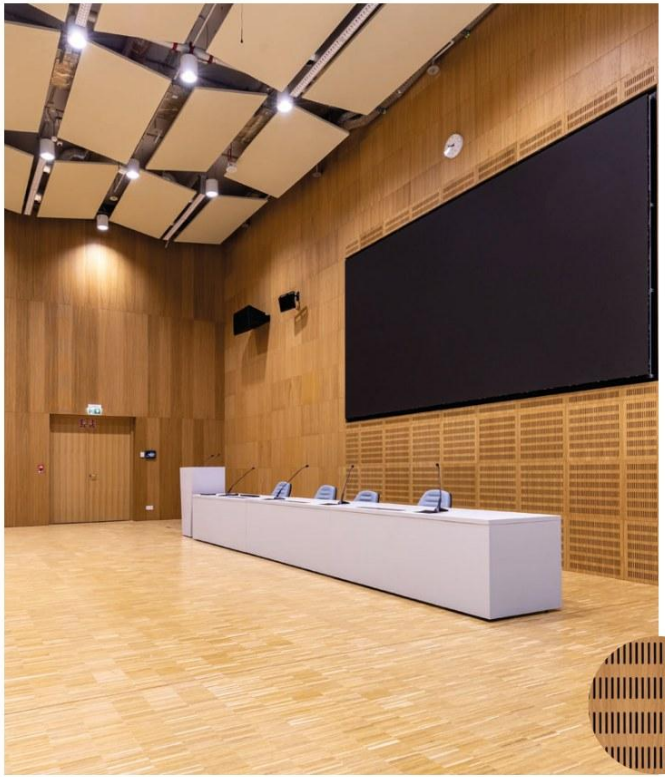
Technical Data
Application: Walls and ceilings
Size: 600 × 600 × 12mm
Composition: Medium density fibreboard MDF
Weight: 8.53 kg/m²
Density: 750 kg/m³

Acoustic performance: αm = 0.55, αw = 0.40, NRC = 0.55



Acusorb Medera.

Ideaperfo Projects

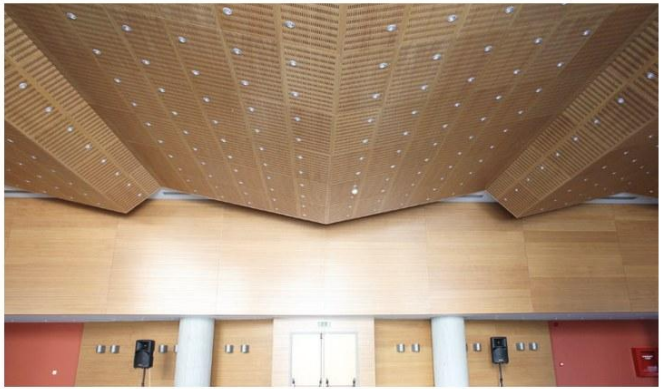


EDUCATIONAL SPACES.

Project: Warsaw University
Architect: -
Product: Ideacustic High 16 - Ideaperfo R16
Finish: Oak Veener.

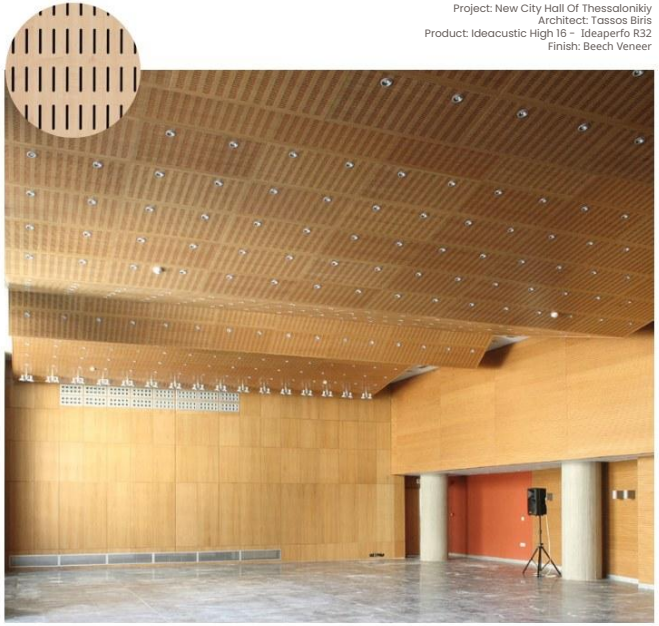
Acusorb Medera.

Ideaperfo Projects



PUBLIC SPACES.

Project: New City Hall Of Thessalonikiy
Architect: Tassos Biris
Product: Ideacustic High 16 - Ideaperfo R32
Finish: Beech Veneer

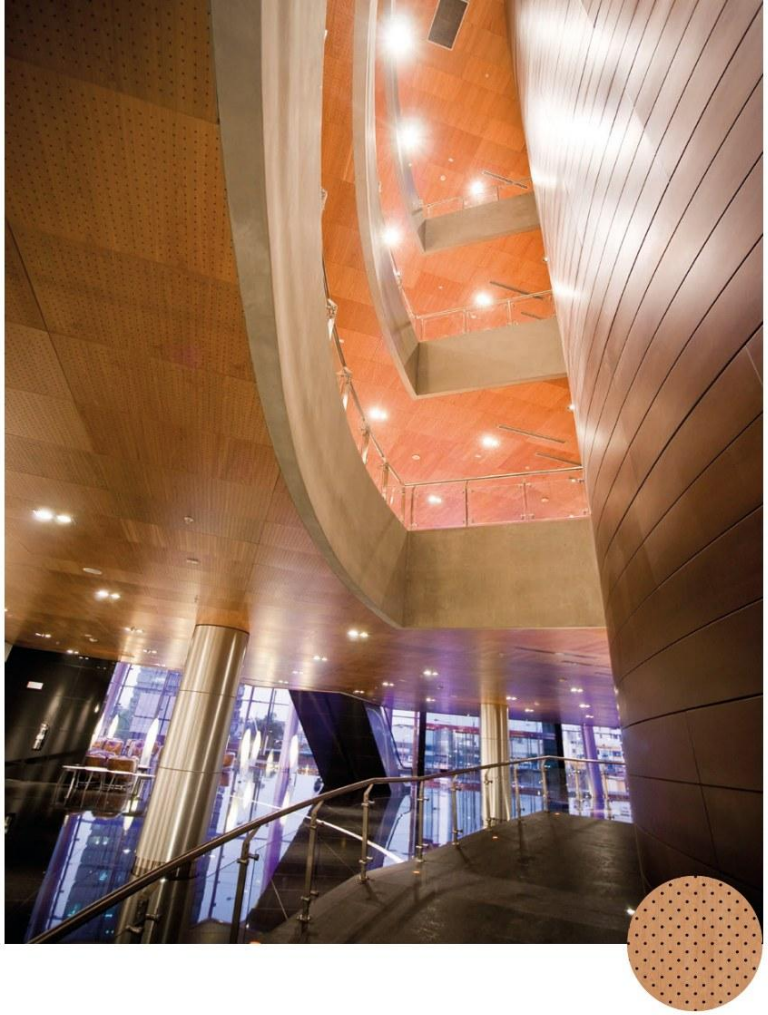


Acusorb Medera.

Ideaperfo Projects

PUBLIC SPACES.

Project: Gran Teatro Nacional Entrance Hall
Product: Ideaperfo T32
Finish: Cherry Veneer

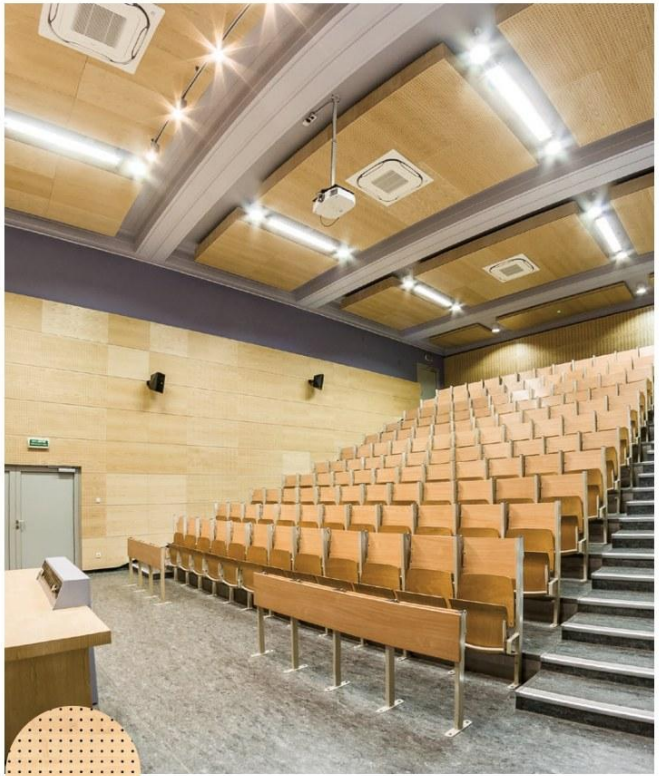


Acusorb Medera.

Ideaperfo Projects

EDUCATIONAL SPACES.

Project: AGH Polonio University
Product: Ideaperfo T32
Finish: Maple Veneer



Acusorb Medera.

Ideaperfo Projects

AUDITORIA.

Project: Casa Decor 2024 Studio Space
Architect: Sandra Antón, Ess Interiores
Product: Ideaperfo Micro 05
Finish: Melamine

Acusorb Medera.

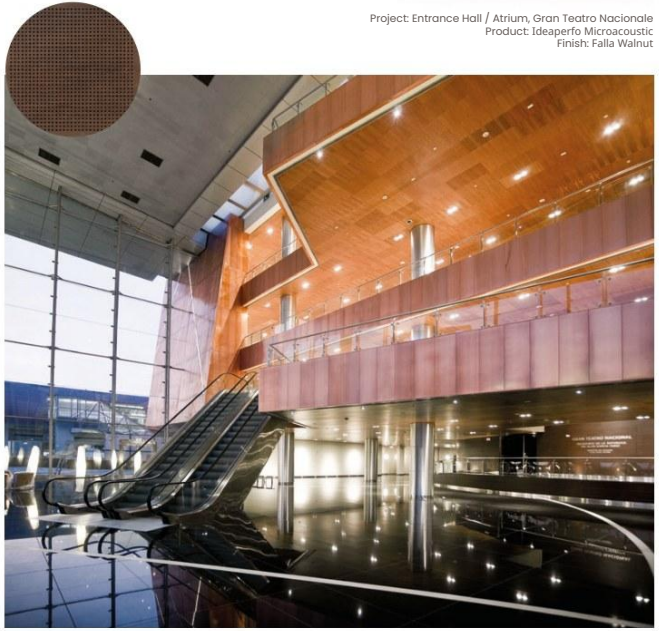
Ideaperfo Projects

RESIDENTIAL.

Project: Private living room
Product: Ideaperfo Mi
Finish: Cherry Veneer

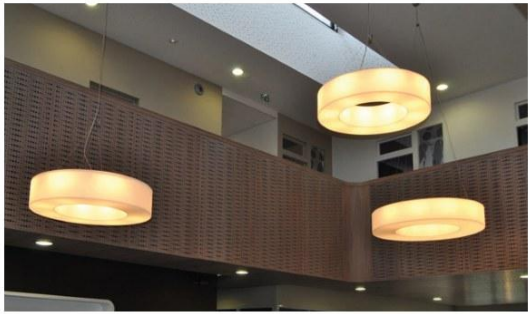
PUBLIC SPACES..

Project: Entrance Hall / Atrium, Gran Teatro Nacionale
Product: Ideaperfo Microacoustic
Finish: Falla Walnut



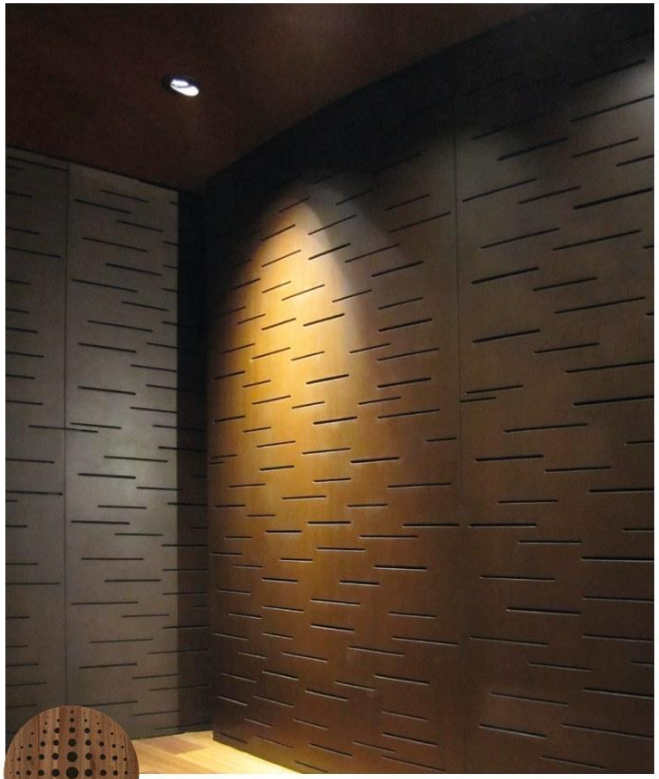
Acusorb Medera.

Ideaperfo Projects



PUBLIC CENTERS. EDIFICIOS PÚBLICOS

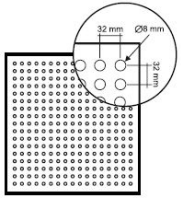
Project. Proyecto: City Council
Location. Ubicación: Saint Quentin Fallavier (France)
Product. Producto: Ideaperfo Design
Finish. Acabado: Falla Walnut. Nogal Falla



Acusorb Medera.

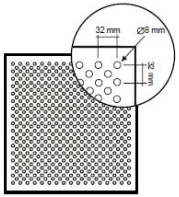
Ideaperfo

Panel Profiles, Perforation and Slot Configurations.



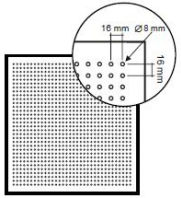
T32

12mm thick modules with through-holes of 4, 6, 8 or 10 mm diameter at 32 mm centres.



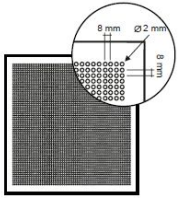
T16

12mm thick modules with through-holes of 4, 6, 8 or 10mm diameter at 16mm staggered centres.



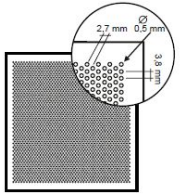
Mi

12mm thick modules with through holes of 4, 6 or 8mm diameter, spaced 16mm apart.



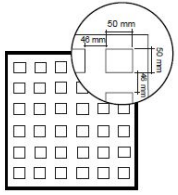
Microacoustic

12mm thick modules with 2mm diameter through - holes at 8mm centres.



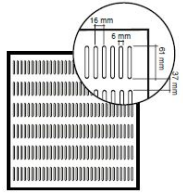
Micro 05

16mm thick modules with 0.5mm diameter through - holes at 3.8mm vertical and 2.7mm diagonal centres.



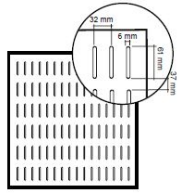
Design

12mm thick modules with through-perforations to bespoke design.



R16

12mm thick modules with 4/6/8 × 61mm through - slots at 16mm centres.



R32

12mm thick modules with 4/6/8/10 × 61mm through - slots at 32mm centres.

Technical data

TECHNICAL CHARACTERISTICS.

	T32	T16	Mi	Microacoustic	Micro 05	Design	R16	R32
Dimensions	600 x 600 x 12mm				600 x 600 x 16mm	600 x 600 x 12 mm		
Tolerance	(Length × Width): ±1.5mm tolerance							
Perforation open area	4.13%	7.79%	16.51%	3.78%	2.67%	-	20.17%	10.39%
Finishing		Melamine, veneer or lacquered finish available in RAL, Pantone or NCS colour references.						
Backing Fleece		Black acoustic fleece, 0.25 mm thick, bonded to the rear of the panel.						
Reaction to Fire		Fire Classification (EN 13501-1): B-s2, d0[1] Fire Classification (EN 13501-1): B-s1, d0[2]						

***Other support materials and dimensions available on request.**

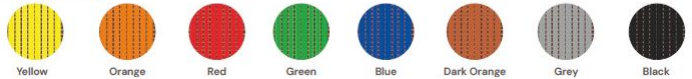
1. B-s2,d0: Melamine - **2.** B-s1,d0: Wood Veneer

FINISHES.

Standard melamines.

Standard veneer sheets.

Lacquered MDF panels.



Melamine or HPL laminates: Available in a range of over 100 colours.
Lacquered finishes: Can be customised to any RAL, Pantone or NCS colour reference.

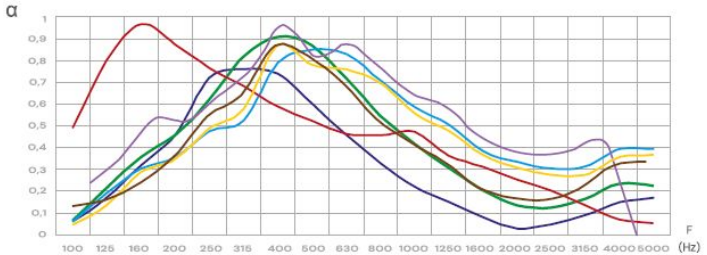
Acusorb Medera.

Ideaperfo

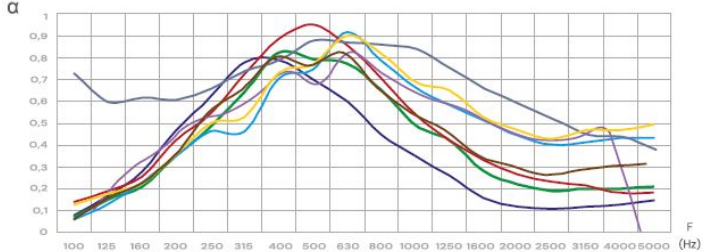
Technical data

Acoustic Test Installation Build-Up (Indicative)

T32 / T16 / Mix / Design / R16 / R32: 80mm plenum + 40mm mineral wool
Microacustic: 200mm plenum + 40mm mineral wool



T32 / 16 / MI / DESIGN / R16 / R32: 50mm plenum + 40mm rockwool. - **Microacustic:** 40mm plenum + 40mm rockwool.
Micro 05: 400mm plenum + 40mm rockwool.

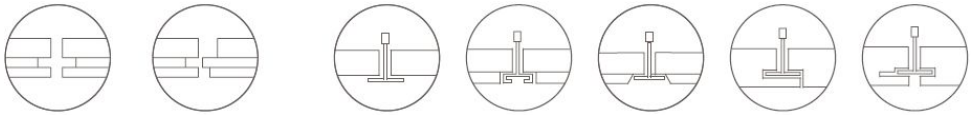


Technical Specification by Panel Type *(All dimensions are in mm)*

Data Studied	T32	T16	Mi	Microacoustic	Micro 05	Design	R16	R32
Dimensions (mm)	600 x 600mm				1200 x 600mm	600 x 600mm		
Thickness (mm)	12mm				16mm	12mm		
Slots (mm)	-						6 x 61mm	6 x 61mm
Squares (mm)	-					50 x 50mm	-	
Diameter (mm)	8mm	8mm	8mm	2mm	0.5mm	10mm	-	
Density	750 kg/m³ (+/- 6%)							
Weight	9.17 kg/m²	9.1 kg/m²	8.53 kg/m²	7.82 kg/m²	7.64 kg/m²	3.25 kg/m²	7.92 kg/m²	8.53 kg/m²

*** Weight may vary depending on finish and machining.**

Standard Installation System Details for Cladding and False Ceilings



*** Demountability is achieved through the selected T15 or T24 support profile, provided the front retaining detail (if any) allows the panels to be removed without damage.**

Acoustic Performance by Panel Type and Installation Build-Up

Acoustic Test Data	T32		T16		Mi		Microacoustic		Micro 05		Design		R16		R32	
Average sound absorption coefficient (α_m)	0.30	0.40	0.50	0.55	0.60	0.60	0.50	0.70	-	0.75	0.60	0.65	0.6	0.65	0.45	0.55
Weighted sound absorption coefficient (α_w)	0.15*	0.25*	0.25*	0.30*	0.45*	0.50*	0.25*	0.35*	-	0.60*	0.45*	0.55	0.45*	0.55	0.25*	0.40*
Noise Reduction Coefficient (NRC)	0.40	0.45	0.55	0.55	0.55	0.55	0.60	0.70	-	0.75	0.60	0.60	0.55	0.60	0.50	0.55
Absorption Class	E	E	E	D	D	D	E	D	-	C	D	D	D	D	E	D

***Material with high absorption coefficients at medium (M) and low (L) frequencies.**

Storage & Conditioning

The material must be stored on site for a minimum of 24 hours before installation to allow it to acclimatise. Ideal conditions are 18ºC to 25ºC with a relative humidity of 40% to 60%.

Ideawood

Idealux LR | Idealux LT | Idealux FL | Slats

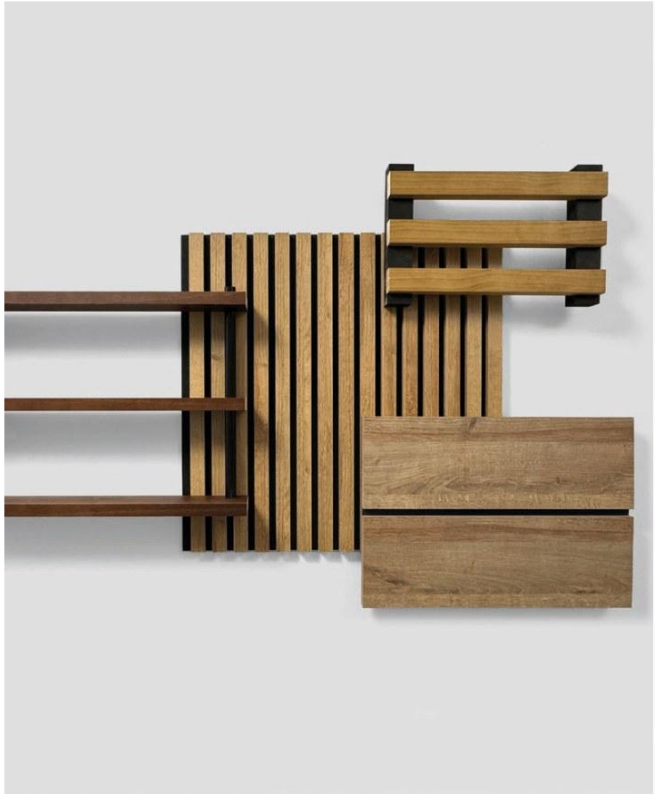
Acoustic design in natural wood panels

Solid wood modules that combine the elegance of natural materials with the efficiency of acoustic conditioning.

This environmentally friendly product range is recommended for all types of interior design, with **fire-retardant options available** to suit project requirements where enhanced fire performance is needed.

The panels combine functionality and aesthetics, meeting both the practical and visual requirements of interior spaces.

With their modular design and simple installation, the Ideawood family offers an adaptable and durable solution for improving both the acoustic quality and appearance of any space.



Acusorb Medera Natural Wood Acoustic Panels.

Ideawood Range

Idealux LR

Idealux LR is a classic linear acoustic system that combines the natural appearance of wood with the strength and stability of a metal rod construction. Designed for suspended ceilings and wall cladding, the solid wood slats are connected at right angles using a continuous round through-tube. This creates a robust open-slat design where the gaps can either remain visible or be fitted with thermally reinforced acoustic fleece and polyester fibre panels to improve acoustic absorption.

Technical Data
Application: Walls and ceilings
Size: 2380 x 600 mm
Composition: Natural wood board
Weight: 10.92 kg/m²
Density: 490 kg/m³

Acoustic performance: αm = 0.85, αw = 0.80, NRC = 0.80

Idealux FL

Idealux FL panels are suitable for suspended ceilings and wall cladding, offering simple installation, high acoustic absorption and a wide variety of finish options for both the base and slats.
The system is formed from a recycled polyester fibre backing panel with MDF slats. The slats can be finished in melamine, natural veneer, varnished solid wood or stained solid wood, providing a flexible acoustic solution for a wide range of interior spaces.

Technical data
Application: Walls and ceilings
Size: 2400 x 600 mm
Composition: Medium density fibreboard MDF and polyester fibreboard
Weight: 9 kg/m²
Density: MDF 750 kg/m³, PET 220 kg/m³

Acoustic performance: αm = 0.93, αw = 0.95, NRC = 0.88

Idealux LT

Idealux LT is a high-performance solid wood acoustic panel system from the Ideawood family, designed for simple installation with fully demountable and accessible modules.
The panels are constructed using cross-linked solid wood slats with a rear cross member, providing a robust and versatile acoustic solution for both walls and ceilings. Available in a range of slat widths, spacings and finishes, Idealux LT can also include accessible panel options for easier handling, inspection and maintenance.
Idealux LT is available in varnished or stained solid wood finishes.

Technical Data
Application: Walls and ceilings
Size: 2380 x 600 mm
Composition: Natural wood board
Weight: 7.73 kg/m²
Density: 490 kg/m³

Acoustic performance: αm = 0.95, αw = 0.85, NRC = 0.90

Slats

Ideawood Slats combines the elegance of natural wood with a timeless linear design, offering extensive possibilities for both wall and ceiling applications.
As one of the standout products within the Ideawood range, it provides effective acoustic conditioning while delivering a refined architectural finish. Its clean lines and natural appearance make it suitable for a wide variety of interior spaces, from commercial and hospitality environments to education, leisure and high-end residential projects.

Technical data
Application: Walls and ceilings
Size: 2380 x 100 x 22 mm
Composition: Natural wood board
Weight: 10.44 kg/m²
Density: 490 kg/m³

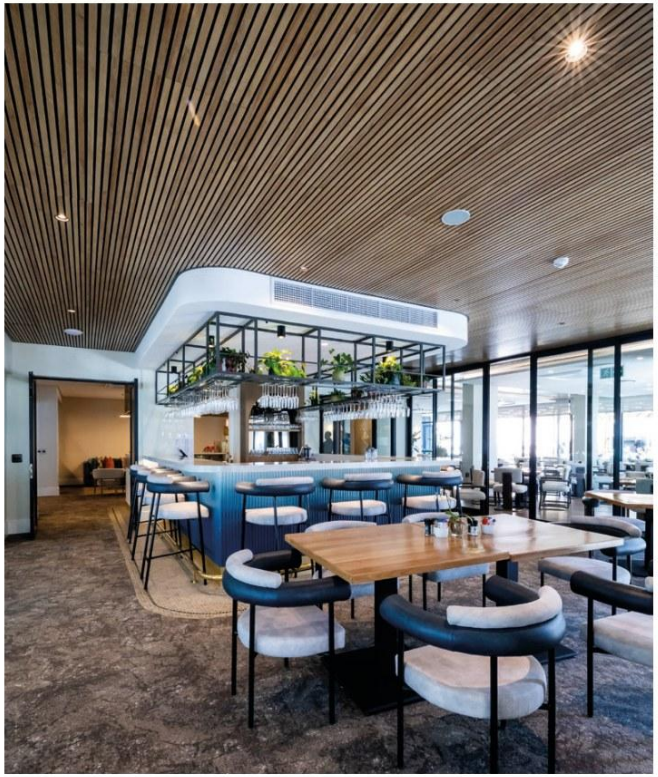
Acoustic performance: αm = 0.45, αw = 0.40, NRC = 0.45

Acusorb Medera.

Ideawood Projects

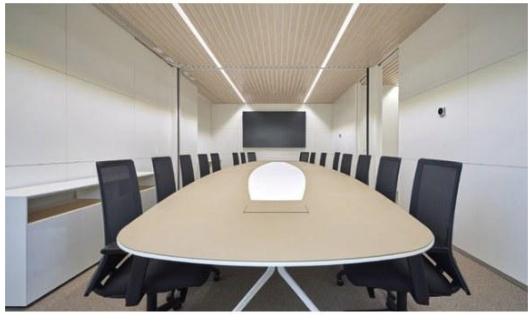
PUBLIC SPACES.

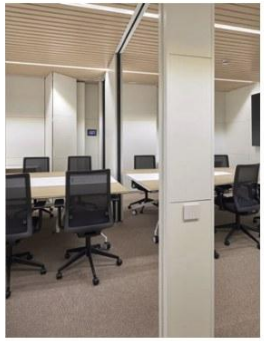
Project: Great Oaks Retirement Village
Arcitect: Genius Loci Group
Product: Idealux FL
Finish: Oak Melamine

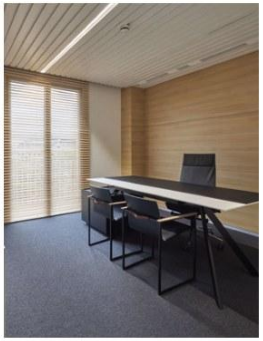


Acusorb Medera.

Ideawood Projects

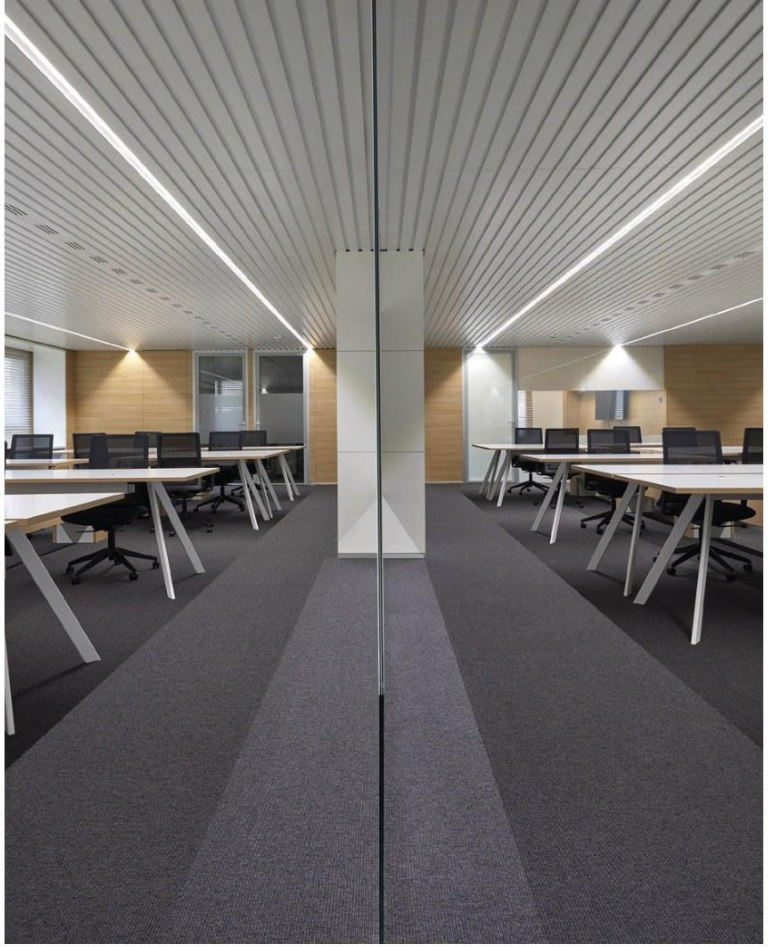






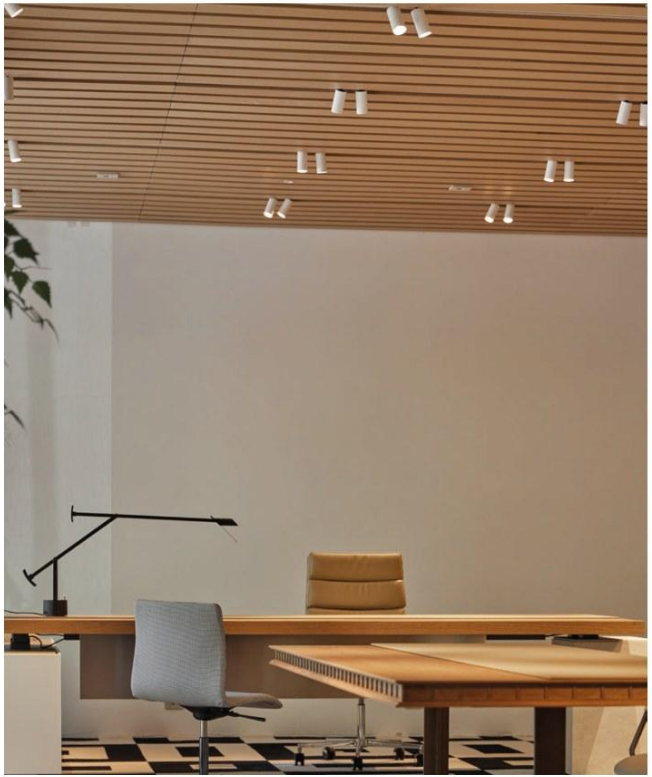
WORKSPACES.

Project: Grupo Romeu Offices
Arcitect: Maria Castellet Diseño
Product: Idealux FL White lacquered and Idealux FL with Maple-covered slats
Finish: White, Maple



Acusorb Medera.

Ideawood Projects



WORKSPACES.

Project: Showroom José Martínez Medina
Arcitect: María Castellet Diseño
Product: Ideawood Idealux FL
Finish: Stained Cherry

Acusorb Medera.

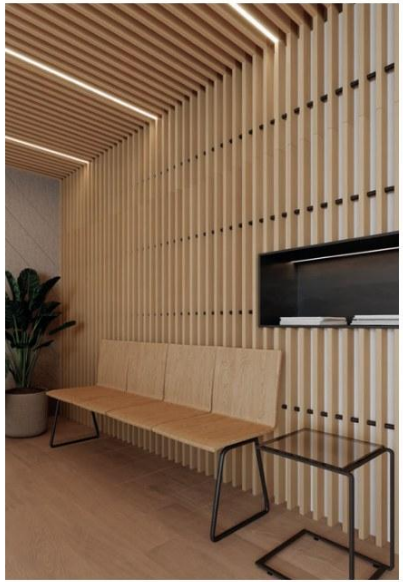
Ideawood Projects

WORKSPACES.

Project: Spin Master Offices
Arcitect: Destudio / @destudioarquitectura
Product: Ideawood Idealux FL
Finish: Stained Oak.

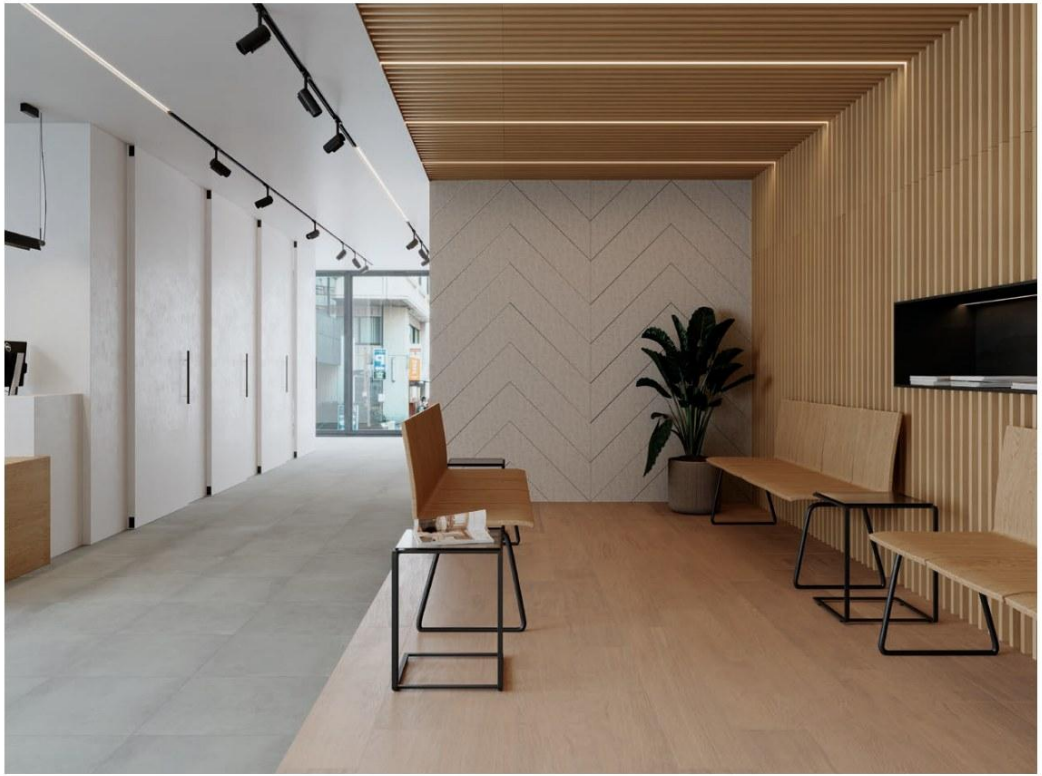
Acusorb Medera.

Ideawood Projects



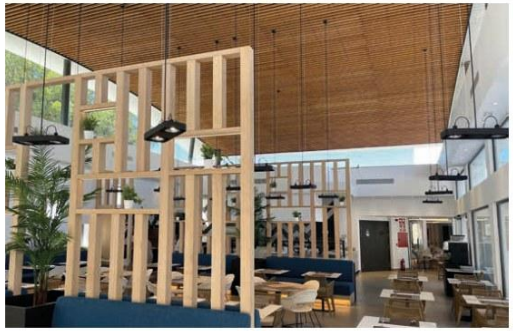
WORKSPACES.

Project: Offices
Product: Ideawood Idealux LR - Ideaflow V-cut panels
Finish: Beech.



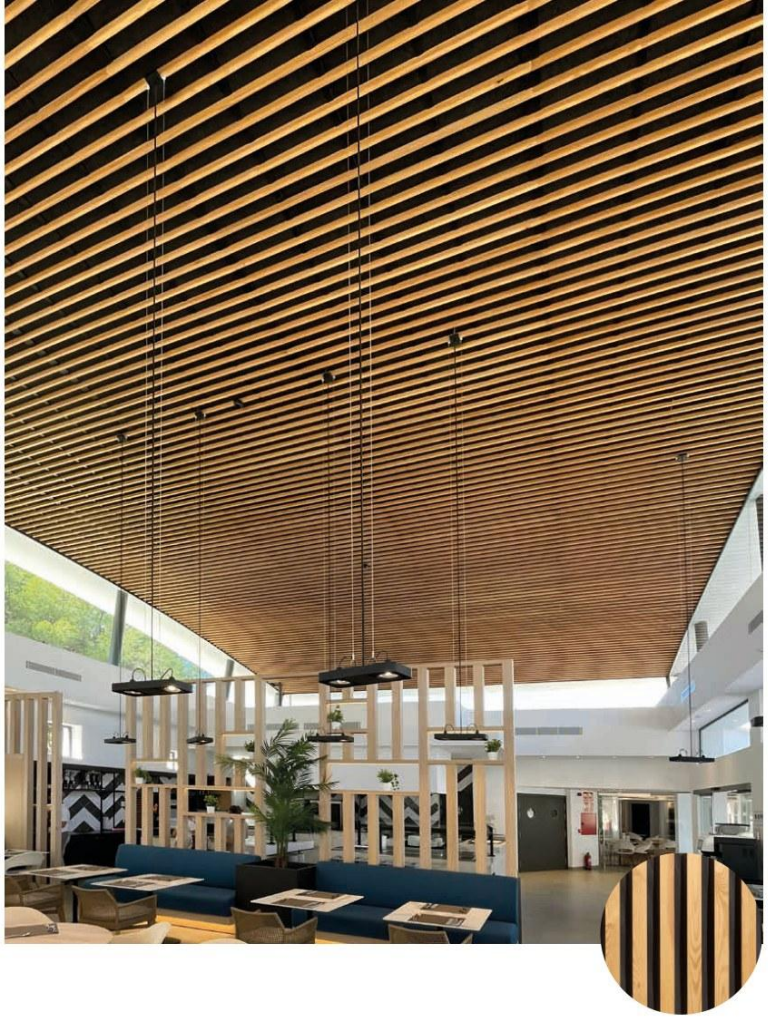
Acusorb Medera.

Ideawood Projects



WORKSPACES.

Project: Morlans Hotel
Product: Ideawood Idealux LT
Finish: Pine transparent varnished.



Acusorb Medera.

Ideawood Projects

FUNERAL HOME

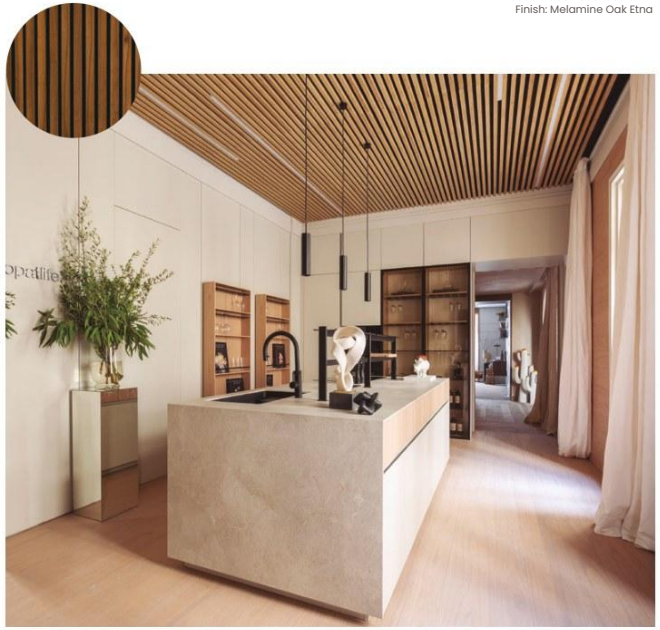
Project: Ripoll Mortuarys
Arcitect: ETC Estudi Tècnic de Construcció
Product: Ideawood Idealux FL
Finish: Oak Veneer

Acusorb Medera.

Ideawood Projects

KITCHEN

Project: Casa Decor 2023s
Arcitect:Virginia Albuja for CopatlifeV
Product: Ideawood Idealux FL
Finish: Melamine Oak Etna

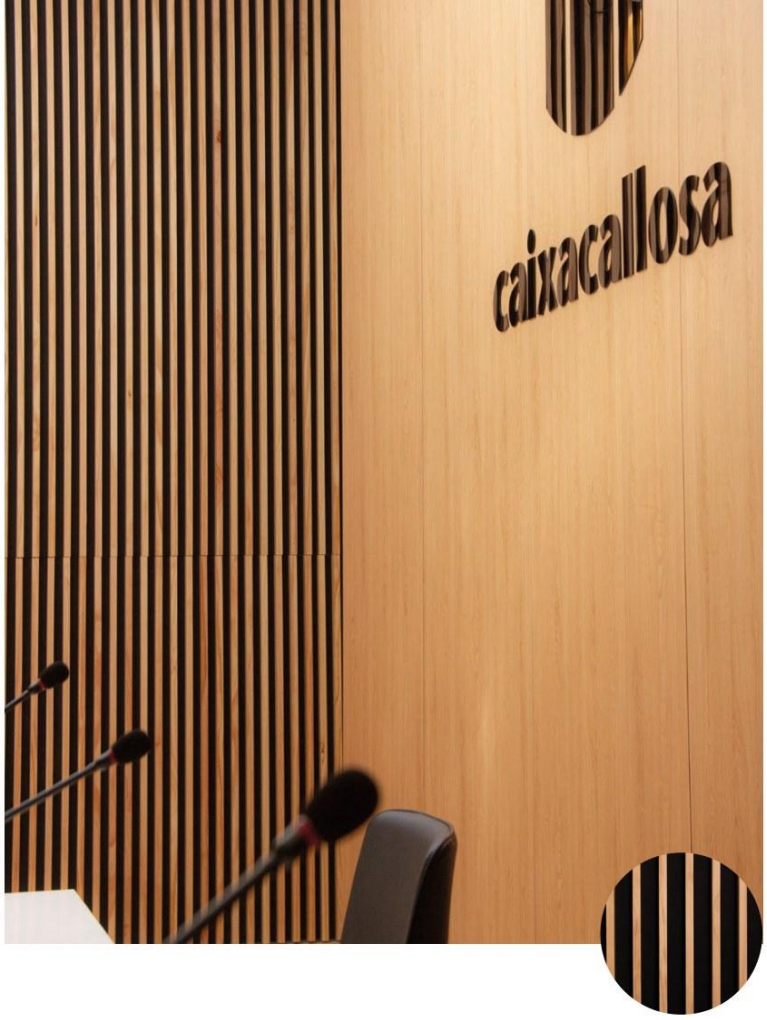


Acusorb Medera.

Ideawood Projects

AUTITORIA.

Project: Auditorium
Product: Ideawood Idealux FL
Finish: Pine.



Acusorb Medera.

Ideawood Projects

FUNERAL HOME

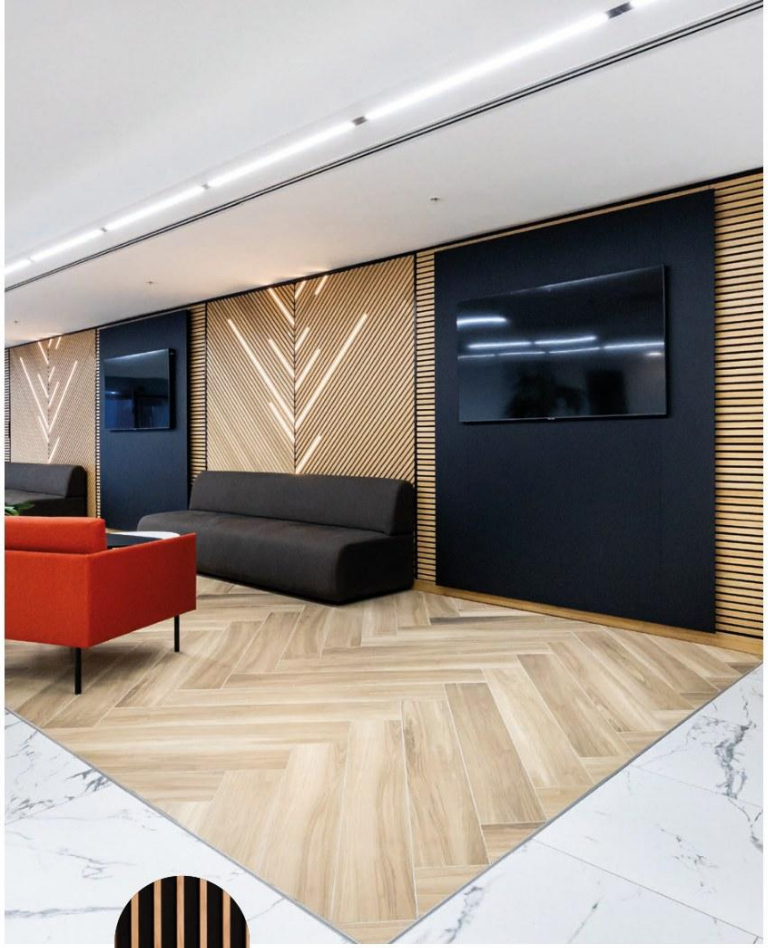
Project: Sancho de Ávila MortuarY
Arcitect: ETC Estudi Tècnic de Construcció
Product: Ideawood Slats - Idealux LT (waiting room.)
Finish: Oak Veneer

Acusorb Medera.

Ideawood Projects

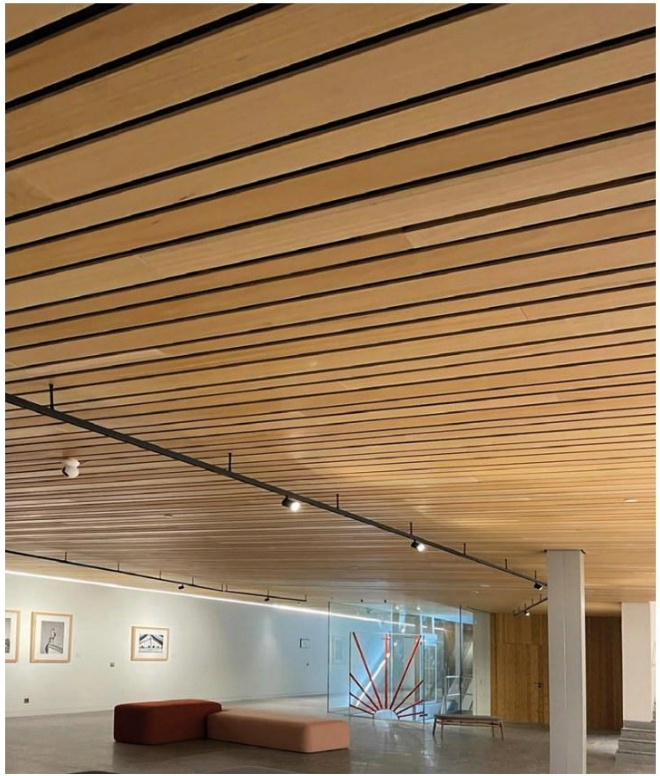
WORKSPACES

Project: Mutual Park
Arcitect: In House
Product: Ideawood Idealux FL
Finish: Oak Veneer



Acusorb Medera.

Ideawood Projects



HOTELS

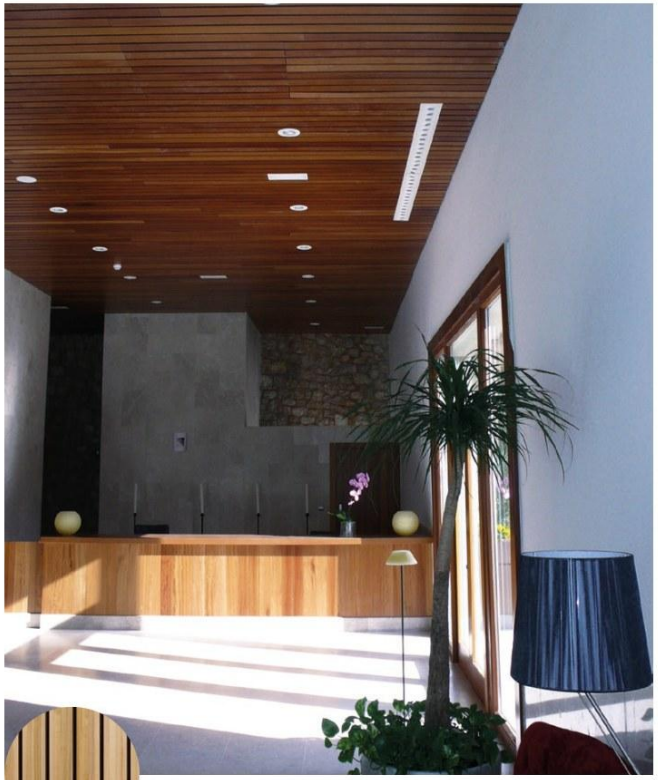
Project: Parador Costa de Morte
Product: Ideawood Slats
Finish: Beech Wood with Clear Varnish

Acusorb Medera.

Ideawood Projects

WORKSPACES

Project: Arzuaga Wineries
Product: Ideawood Slats
Finish: Walnut.



Acusorb Medera.

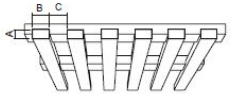
Ideawood

Technical data

System Description

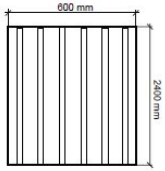
Idealux LR

Slats are joined transversely using an exposed round tube and are available in various widths (A, B) and spacings (C). Accessible panels can also be incorporated for easier handling.



Idealux LT

Slats are connected transversely by a rear crossbeam and are available in various widths (A, B) and spacings (C). Accessible panels can also be incorporated for easier handling.



Idealux FL

Modules: 2400 x 600 mm
Veneer slats: 27 mm wide x 13 mm high
Melamine slats: 27 mm wide x 12 mm high
Alternative module size: 2380 x 600 mm
Slat heights: 22 / 42 / 68 mm
Core: Recycled polyester fibre
Finish: Melamine

Slats

Modules of 2380x100x22 mm, in solid wood.

TECHNICAL CHARACTERISTICS.

	Idealux LR	Idealux LT	Idealux FL	Slats
Dimensions	2380x600 (42/68/90x22) mm	2380x600 (22x45/68) mm	2400x600 mm	2380x100x22 mm
Tolerance	**Length / Width tolerance:** ±1.5 mm			
Finishing	**Lacquered pine wood** **Finish:** Natural lacquer or stained finish		Melamine, veneer or natural wood	**Lacquered pine wood** **Finish:** Natural lacquered or stained
Reaction to Fire	UNE 13501-1: B-s1, d0 Autoclave treatment		**Polyester fibre:** B-s1,d0 **MDF board:** B-s2,d0	UNE 13501: B-s1,d0 **Treatment:** Autoclave treatment

* Consult other backing/support materials. .

FINISHES

Solid wood: Radiata pine

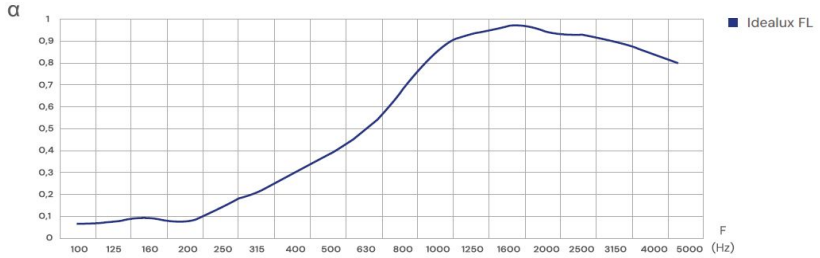
Standard Melamines

Standard Veneer Sheets

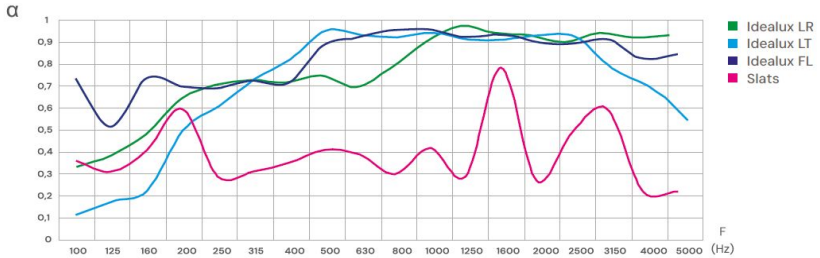
Acusorb Medera.

Ideawood

FL: Without Plenum



FL: 400mm plenum + 40mm rockwool - **LT / LR / Slats:** 50mm plenum + 40mm rockwool



Acoustic Performance by Panel Type and Installation Build-Up

Acoustic Test Data	Idealux LR		Idealux LT		Idealux FL		Slats	
Average sound absorption coefficient (α_m)	-	0.85	-	0.95	0.66	0.93	-	0.45
Weighted sound absorption coefficient (α_w)	-	0.80	-	0.85	0.35	0.95	-	0.40
Noise Reduction Coefficient **(NRC)**	-	0.80	-	0.90	0.51	0.88	-	0.45

Technical data

TECHNICAL CHARACTERISTICS.

	Idealux LR	Idealux LT	Idealux FL	Slats
Dimensions	1800 x 600mm	1935 x 600mm	2400 x 600 mm	1190 x 100mm
Battens	**22 x 90 mm** **6 pcs** *(rear. 3 pcs)*	**22 x 45 mm** **7 pcs** *(rear. 4 pcs)*	-	-
Thickness	-	-	21mm	22mm
Density	**490 kg/m3**	**490 kg/m3**	**PET fibre:** 220 kg/m³ ±6% **MDF:** 750 kg/m³ ±6%	**490 kg/m3**
Weight	**10.93 kg/m²**	**7.73 kg/m²**	9.0 kg/m²	10.44 kg/m²

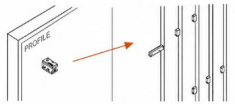
* Simulated test.

STANDARD INSTALLATION SYSTEM

Idealux LR

Cladding

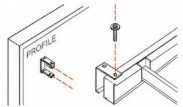
Fastening clip



Idealux LT

Cladding

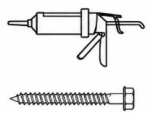
Metal angle bracket



Idealux FL

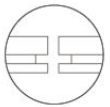
Cladding

By means of mounting adhesive or lag screws



Slats

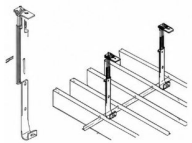
Cladding & false ceiling



Double female

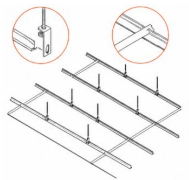
False ceilings

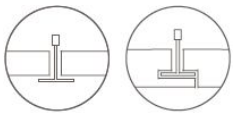
Roof anchorage, bar support, and bar support pin.



False ceilings

Angular, threaded rod and nut, clamping gauge, T-profile and hanger.





Viewed **Hidden**

NOTE: Site Conditioning Prior to Installation

Materials should be stored at the installation site for a minimum of 24 hours before installation. Recommended conditions are:
Temperature: 18ºC to 25ºC
Relative humidity: 40% to 60%

Acusorb Medera.

Un-tested / Un-verified Guidance.

Improving Absorption Performance...

Advisory guidance for enhanced cavity depths and acoustic mineral wool backing

How performance may be improved.

The published acoustic performance values are based on the specific tested installation build-ups shown within this data sheet. Where improved absorption is required, performance may be enhanced by increasing the rear cavity depth behind the panels and incorporating a suitable layer of acoustic mineral wool within the void.

This can assist absorption particularly at medium and lower frequencies, by allowing the panel system to interact with a wider frequency range.

Indicative enhanced build-up.

Decorative acoustic panel face

▼

Rear air cavity / void

▼

40–50mm acoustic mineral wool

▼

Wall or ceiling substrate

Typical advisory cavity depths.

Build-up type	Rear cavity	Acoustic intent
Standard tested	As tested	Declared published performance
Shallow cavity	50–100mm	General absorption improvement
Medium cavity	100–200mm	Broader mid-frequency benefit
Deep cavity	200–400mm	Improved lower-frequency potential
High-performance cavity	400mm+	Greatest potential uplift, subject to test

Panel-Type Guidance - Indicative **Real-World** Absorption Class Pathway - Advisory Only .

The guidance below identifies potential absorption class pathways based on panel type, increased rear cavity depth and the inclusion of suitable acoustic mineral wool backing. These pathways are provided as advisory design guidance only and must not be used as declared, certified or guaranteed absorption classes unless the complete system has been independently tested and classified.

	Panel type	Published tested class range	Suggested enhanced build-up	Indicative potential direction
Medera Ideacoustic	Standard 32	Class C	100–200mm void + 40–50mm mineral wool	Potentially towards Class B
	High 16	Class C / B	100–200mm void + 40–50mm mineral wool	Potentially within Class B range
	Mix 16/32	Class B	100–200mm void + 40–50mm mineral wool	Potential upper Class B pathway
	Pro 8	Class C / B	100–200mm void + 40–50mm mineral wool	Potentially within Class B range
	Pro II / Pro IIR	Class B	100–200mm void + 40–50mm mineral wool	Potential upper Class B pathway
Medera Ideaperfo	T32	Class E / D	100–200mm void + 40–50mm mineral wool	Potentially towards Class D
	T16	Class E / D	100–200mm void + 40–50mm mineral wool	Potentially towards Class D / C
	Mi	Class D	100–200mm void + 40–50mm mineral wool	Potentially towards Class C
	Microacoustic	Class E / D	100–200mm void + 40–50mm mineral wool	Potentially towards Class D / C
	Micro 05	Class C / B	200–400mm void + 40–50mm mineral wool	Class C or better may be possible, subject to test
	Design	Class D	100–200mm void + 40–50mm mineral wool	Potentially towards Class C
	R16	Class D	100–200mm void + 40–50mm mineral wool	Potentially towards Class C
	R32	Class E / D	100–200mm void + 40–50mm mineral wool	Potentially towards Class D / C

Potential 'Class A' sound absorption target route.

Where **Class A absorption** is the design target, the most appropriate **Acusorb Medera** options to consider would typically be the highest-performing tested systems within each product range.
For **Ideacustic**, **High 16 / Mix** and **Pro 11 / Pro 11R** are the strongest candidates, as these already achieve **Class B** performance within the published tested data. For **Ideaperfo**, **Micro 05** is the closest candidate shown.
Any enhanced Class A route would require a **project-specific construction**, typically involving increased rear cavity depth and suitable acoustic mineral wool backing. The final performance would depend on the exact panel type, cavity depth, mineral wool specification, fixing method, backing substrate and perimeter detailing.

This guidance is **advisory only** and must not be used as a declared, certified or guaranteed **Class A** performance unless the exact panel type and complete installation build-up have been independently tested and classified.

IDEATEC

DESIGNED | SUPPLY | SOLUTION

Partnered with Acuphon (UK) Ltd
13 Brooks Lane
Middlewich
Cheshire
CW10 0JH
United Kingdom
T. +44 (0) 1904 900 194