

REFFE

**PRODUCT
CATALOG**



CREATOR OF QUALITY ACOUSTIC PRODUCTS
CREATING A BETTER SOUND ENVIRONMENT

ENVIRONMENTAL COMMITMENT

THE ORIGIN OF PET MATERIAL



ADVANTAGE

all our products are composed of min 50% recycle PET content.



+ About 272 = A POLYESTER ACOUSTIC PANEL

The average 600ml plastic bottle weighs 7kg

Generally, a standard POLYESTER ACOUSTIC PANEL is 1900g



Clean plastic bottle



Crush into crumbs



Process into pellets



Draw wire into fiber



Make into pet ACOUSTIC PANEL

PRODUCT CHARACTERISTICS



polyester acoustic panels is a new kind of sound absorption material made of 100% polyester fiber through high-technology heat pressing and fusion in the form of cocoon.



Recyclable



Water proof



Sound absorption



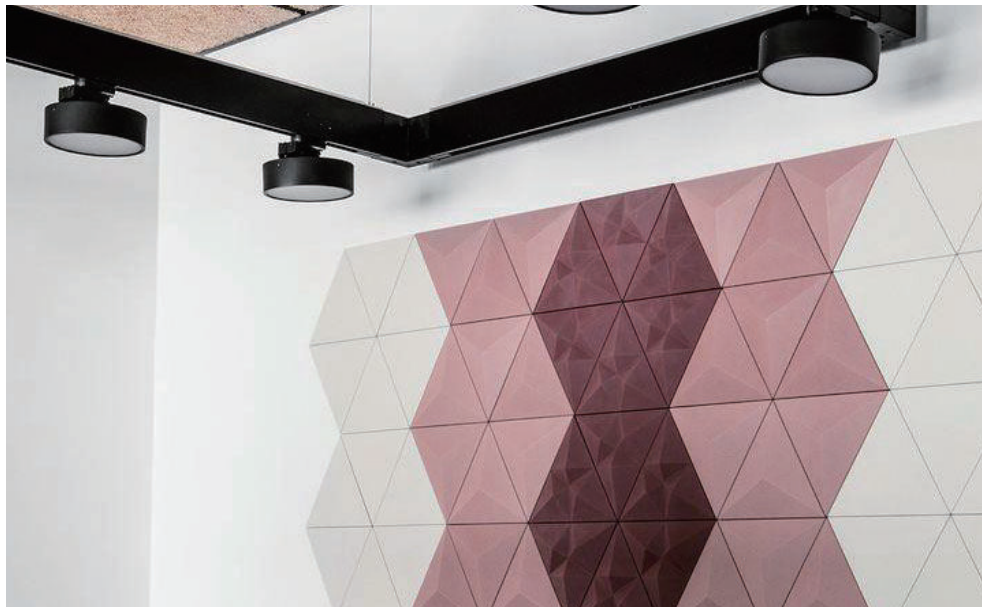
NO VOC



Flame retardant



Light weighted



cotton with different degree of air permeability and density, it is a new kind of interior finishing material with a combination of functions of sound absorption, heat insulation and decoration, featuring sound absorbing, fire retardant, non-toxic, non-irritant and odorless.

STANDARD SIZED POLYESTER PANELS

SPECIFICATIONS

Width(mm) 1220,customizable with 2440mm as the limit

Length(mm) 2440/2800,or customizable for any length

Thickness(mm) 9,12,15,18,24,48(+5%) or customizable with 2 inches as the limit

Fire Test Result ASTME84 Class A, EN 13501 Class B-s1, d0 or CN: B1 without fire rating

Composition 100% recyclable PET (70% at maximum post consumer recycled PET)

Sound Absorption Test Method ISO354:2006 ASTM C423-17

Noise Reduction Coefficient[NRC]

Direct fix:0,95(at maximum for a 2" thick panel)



PRODUCT DESCRIPTION

Non-woven, thermally bonded 100% polyester fiber panel.

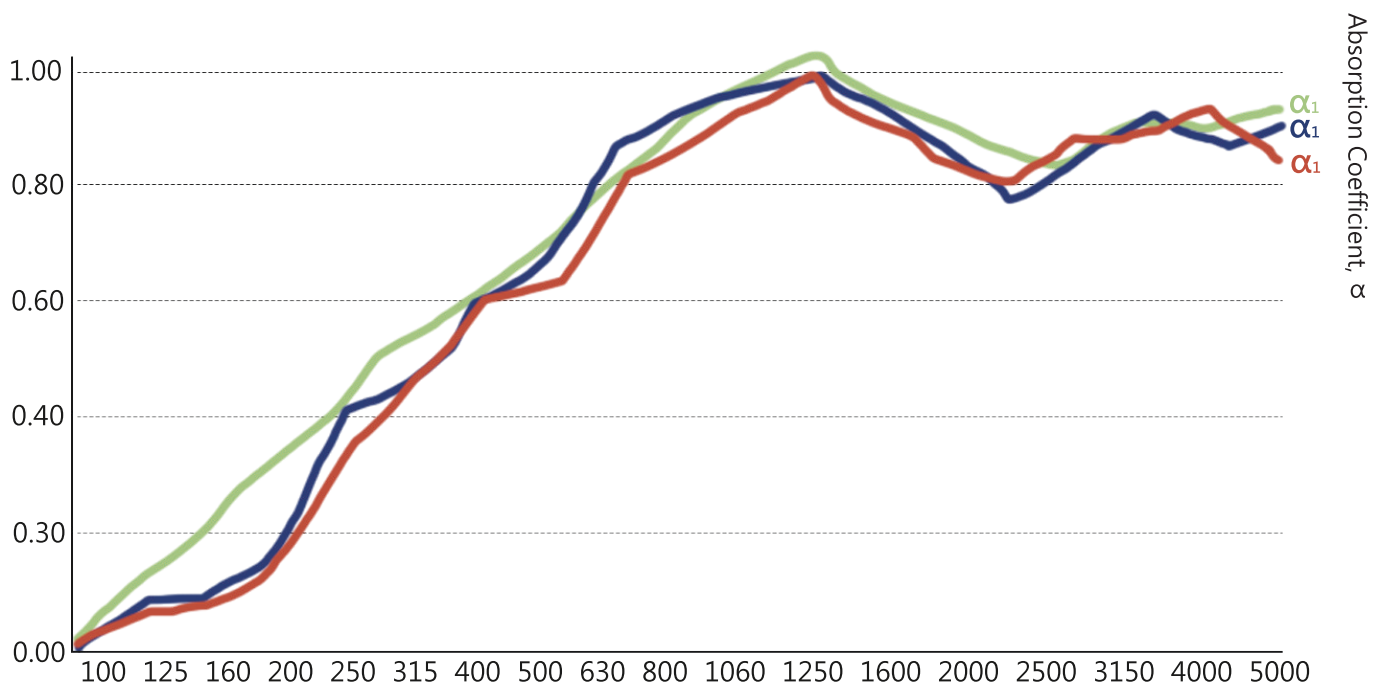
Classified as non-hazardous according to OSHA 29 CFR 1910.1200

First aid information:

Do not compress or band product or package for handling.

Segregate from strong oxidizers and keep covered, clean and dry for storage.

SOUND ABSORPTION COEFFICIENT



FLAME REACTION TEST

Fire behaviour		Smoke production			Flaming droplets	
B	-	s	1	,	d	0

Reaction to fire classification: B-s1,d0

STANDARD SERIES



○ INTRODUCTION

The standard solid color series is a new kind of sound absorption material made of 100% polyester fiber through high-technology heat pressing and fusion in the form of cocoon cotton with different degree of air permeability and density. A palette of 48 colors is available.



NR01



NR02



NR03



NR04



NR05



NR06



NR07



NR08



NR09



NR10



NR11



NR12



NR13



NR14



NR15



NR16

○ FEATURES

Acoustical | Fire-Rated | Recyclable
Lightweight | Easy Installation | Low VOC
Printable | Customized



NR17



NR18



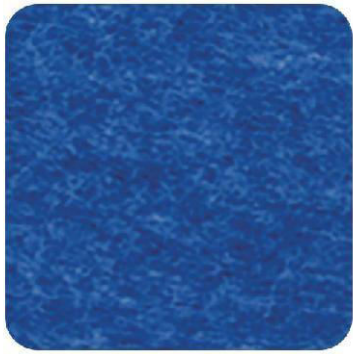
NR19



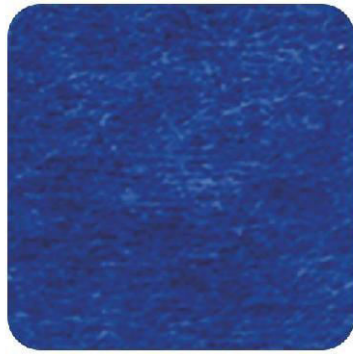
NR20



NR21



NR22



NR23



NR24



NR25



NR26



NR27



NR28



NR29



NR30



NR31



NR32

Colours: 102 (available)
Composition: 100% PET (minimum 50% recycled)
Panel Dimensions: 2440mm x 1220mm, 2850mm x 1220mm
Density: 1700-3000 gsm (customizable)
Thickness: 9mm, 12mm (customizable)



NR33



NR34



NR35



NR36



NR37



NR38



NR39



NR40



NR41



NR42



NR43



NR44



NR45



NR46



NR47



NR48

V GROOVED ACOUSTIC PANEL

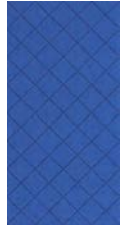
INTRO

Based on the polyester acoustic panel,V-slot series uses CNC Machine to make different lines, this product is suitable for various scenarios.

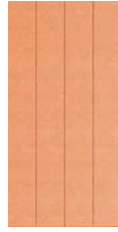
CUSTOMIZABLE MODULE



V-01



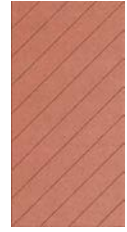
V-02



V-03



V-04



V-05



V-06



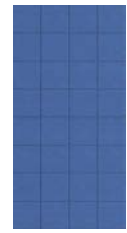
V-07



V-08



V-09



V-10

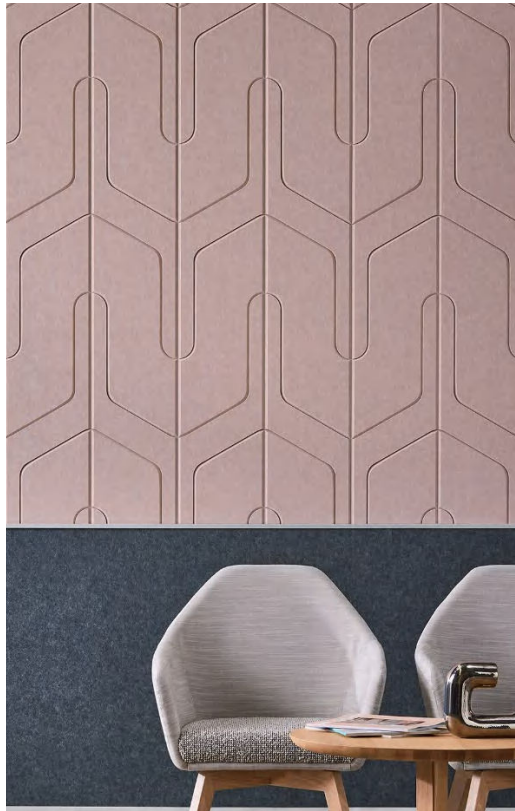
PERFECT FOR

Create a quieter, more comfortable environment in conference rooms, multi-function halls, home, theaters, hotels, gyms, and more.

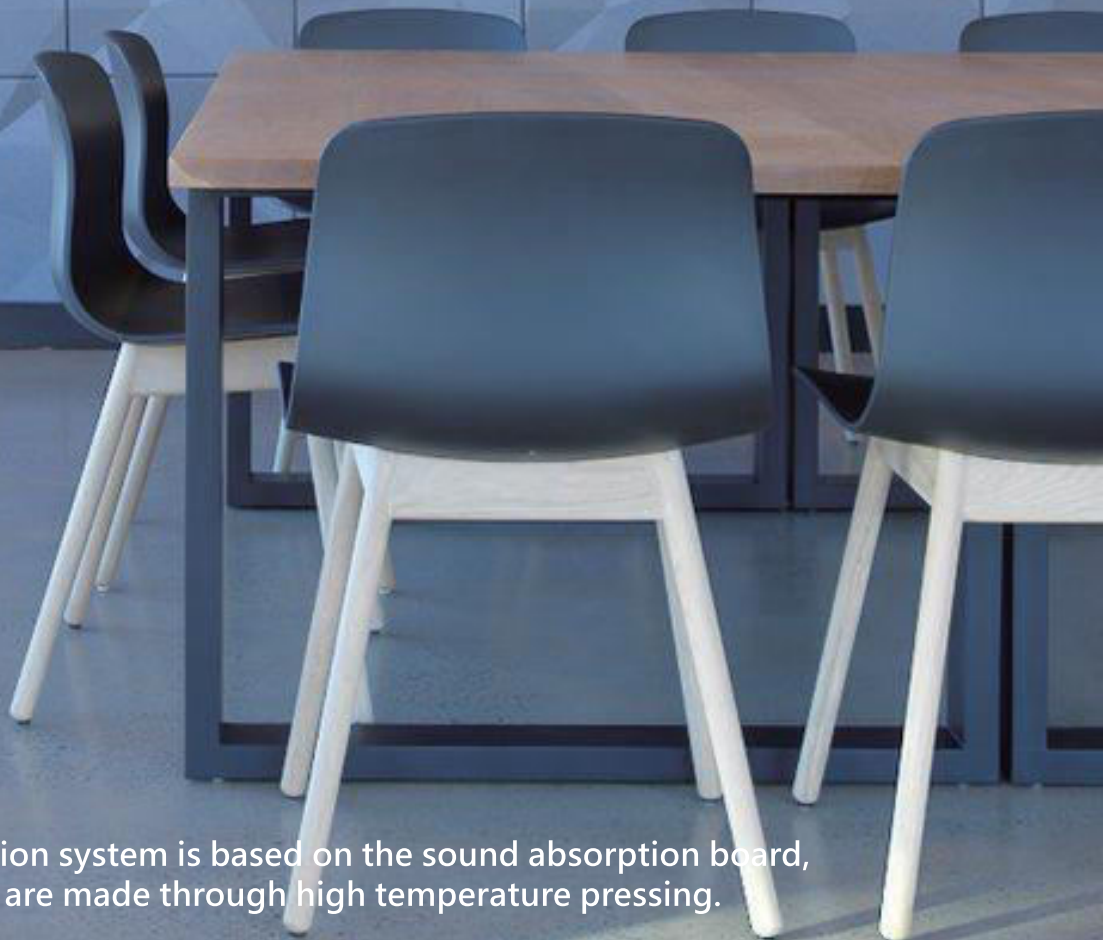




PRODUCT SCENE



3D ACOUSTIC PANEL



INTRO

The 3D sound absorption system is based on the sound absorption board, and different patterns are made through high temperature pressing.

CUSTOMIZABLE MODULE



Shell



Wave



Bamboo



Cube



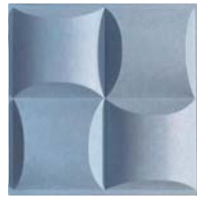
Shadow cube



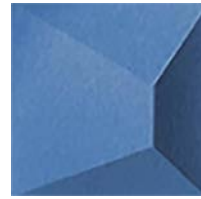
Meteorite



Rhombus cone



Drum



Eight buckets



Ice

PERFECT FOR

Create a quieter, more comfortable environment in conference rooms, multi-function halls, home, theaters, hotels, gyms, and more.





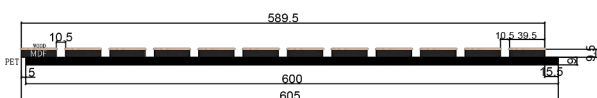
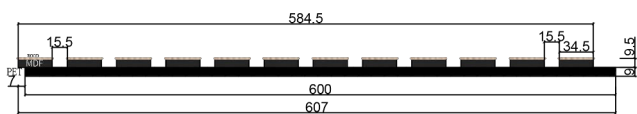
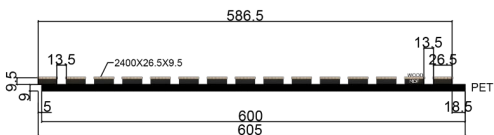
PRODUCT SCENE



ACOUSTIC SLAT PANEL



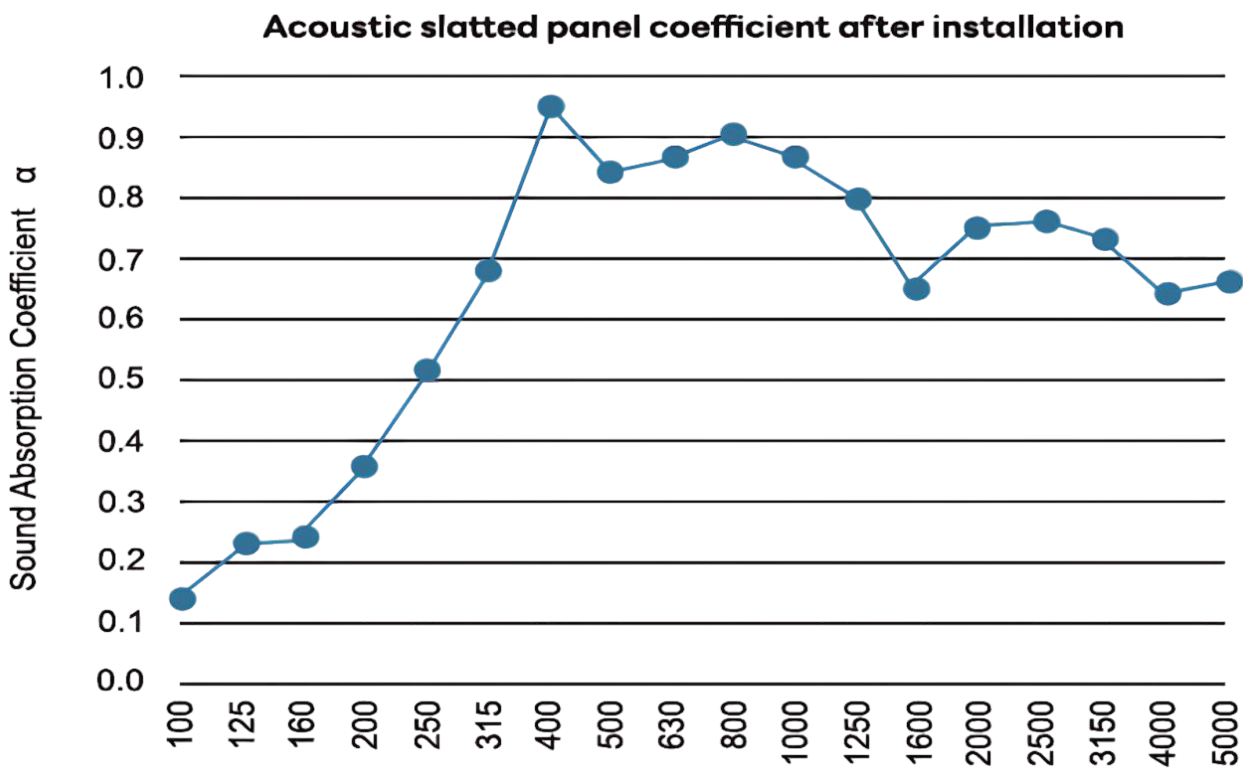
MODEL OPTIONS



SPECIFICATIONS

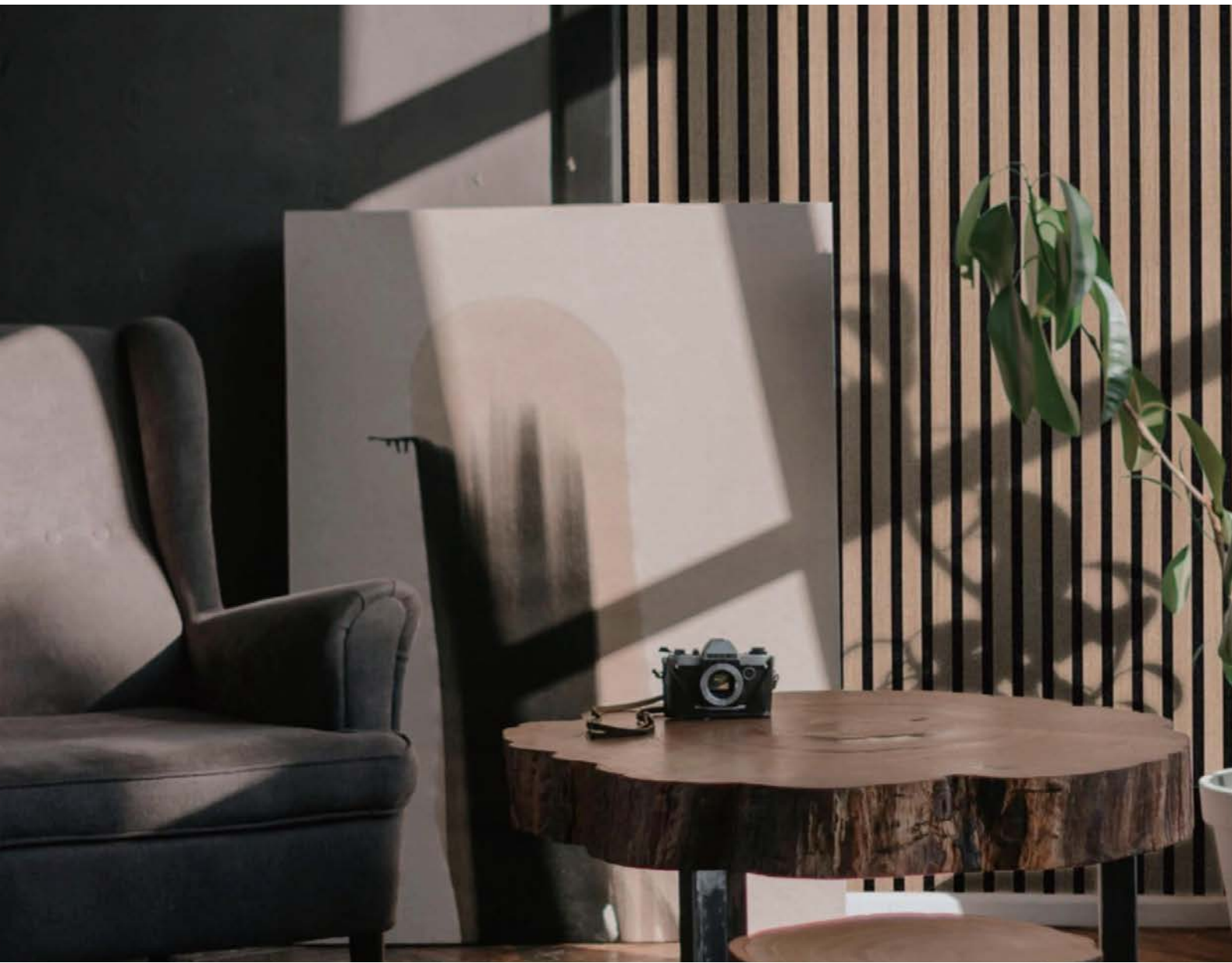
Panel width	280~600mm
Panel height	2400-3600mm
Panel thickness	18/21mm
Panel weight	7-8.5kg/sqm
Slat edge	Beveled / Square

SOUND ABSORPTION COEFFICIENT



INSTALLATION GUIDE

1. Confirm the wall size, check the surface and mark the length.
2. For an expanded acoustic solution, you can place 45mm insulation between the studs.
3. Cutting the panels is easily done with a fine jigsaw. The underlying acoustic felt is easily cut with a good knife.
4. Install the acoustic panels directly on the battens with screws (min. 3.5mm x 35mm) You can easily fit the screws between the lamellas into the underlying acoustic felt.



PRODUCT ANATOMY DIAGRAM



Surface of a wood panel typically refers to the outermost layer or facing of the panel, which is the part that is visible and exposed.

Slats are narrow, elongated strips or blades typically made of materials from wood oak.

Acoustic felt is a specialized material designed to dampen and absorb sound in various applications. It is typically made from natural or synthetic fibers that are tightly packed together to create a dense and porous structure.

ACOUSTIC SLAT PANEL

• FEATURE DISPLAY

Sound absorption	Panel width	280~600mm
Fire retardant High density MDF	Panel Height	2400~3600mm
Decoration	Thickness	18/21mm
	Wood surface	Natural wood veneer Technological wood veneer



60 X 60

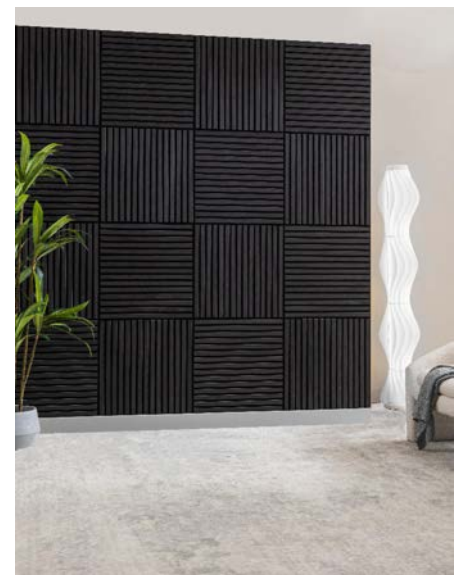
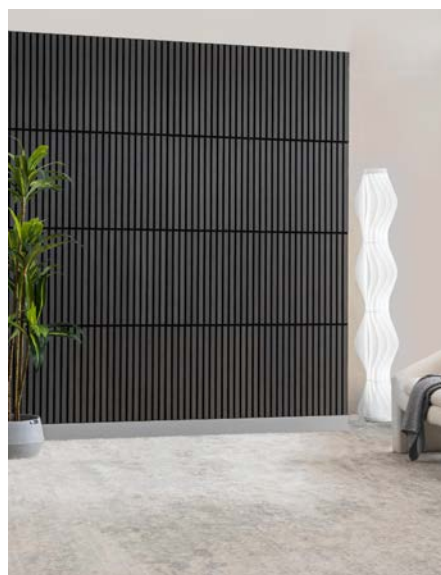
FLEX ACOUSTIC SLAT PANEL

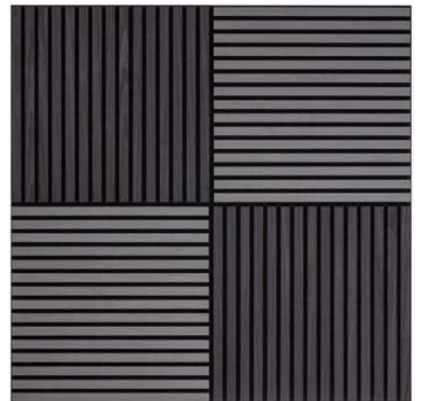
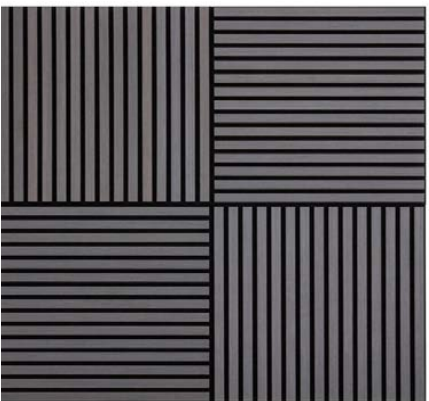
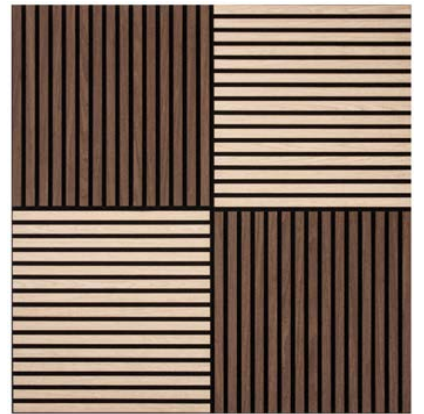
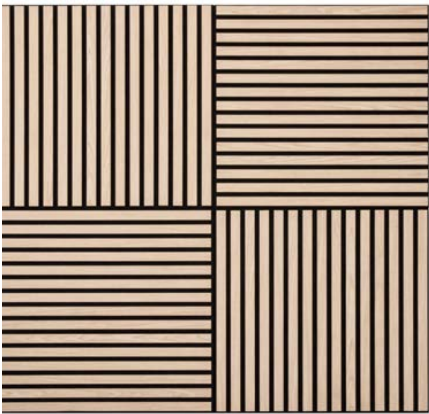
Our 60X60 Acoustic Slat Panel is a very flexible solution with many options for different combinations of design and look. You can turn the panel to change the look, or you can mix colors as you wish, use your imagination to create the design and look you like.

We use the same high-quality materials as we do in our normal slat panel, the 60X60 panel has the same function when it comes to sound reduction. The panel is made with PET for the sound absorbing backside of the panel, and MDF slats in our 4 most popular colors of veneer. But, we can produce the panel in many other colors for both the veneer and PET according to your needs.

The 60X60 panel can be installed on both walls and ceiling very easily with either screws or glue depending on the surface. Its a perfect building material even for DIY installation, and can be installed in many places such as your residential home, stores, restaurants, office.

We can produce the panel according to many different specifications such as using a minimum of 50% recycled PET to make it more ecofriendly. If you need fire rating for the PET we can make it according to different standards, or if you want the MDF and surface made with FSC certified materials.

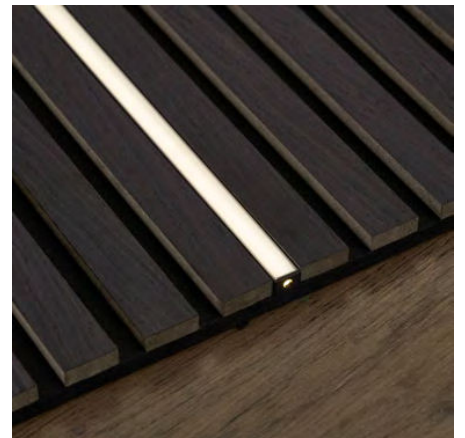
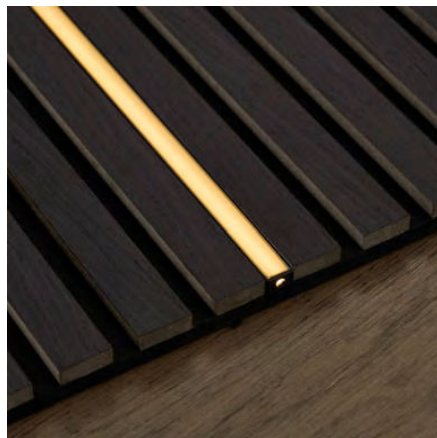
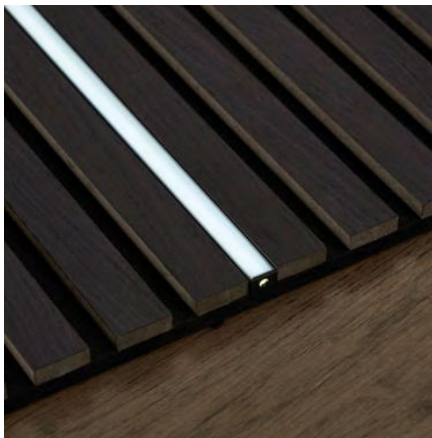






SMART LED

Our Smart LED strips can be controlled by your Smart Home system, mobile app, voice or remote control, with options for Matter, WiFi and Zigbee. We have solutions for most Smart Home environments, like Google, Apple and Amazon, and it can be used on many platforms such as Philips Hue, Smart Life, Apple Home Kit, Amazon Alexa, Samsung SmartThings, etc. Allowing you to schedule timers, control brightness, color, and many other functions from your mobile or voice assistant. Perfect for creating a cozy vibrant atmosphere.



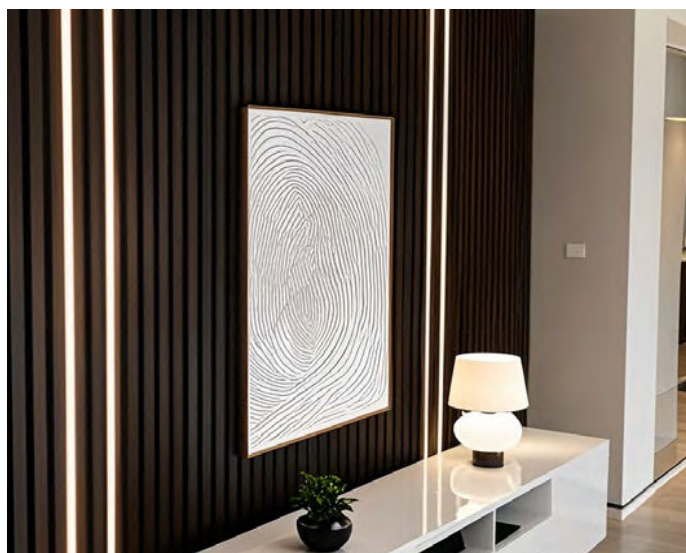
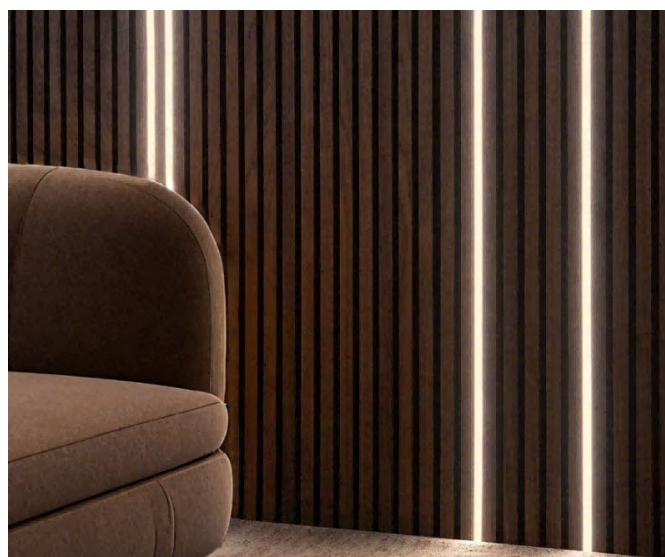
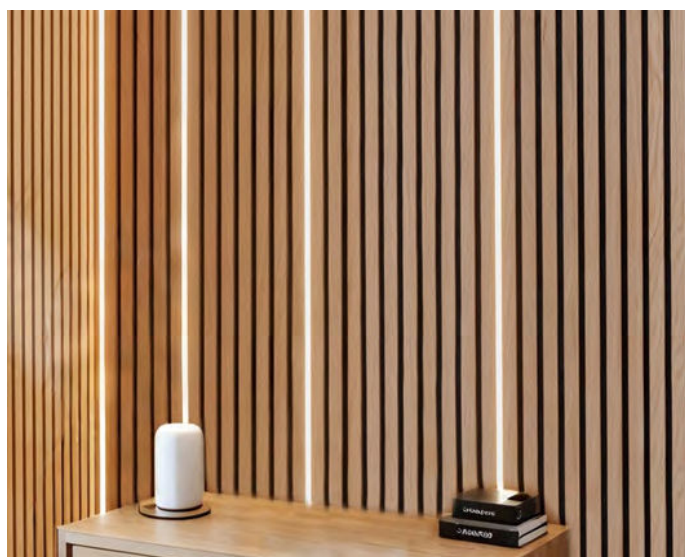
ACOUSTIC LED

Bring your Acoustic Slat Panels to life with our Smart LED. Choose from warm white, adjustable white from warm to cold (2700–6500 Kelvin), or Multi color RGB. Our LEDs improve your lighting, creating the perfect atmosphere for your room.

We use LED COB strips so you don't see each individual LED chip, giving it a nice even look. We have the same function in our easy to install aluminum profile which has a smoked matt grey PVC cover for smooth light diffusion.

We use energy efficient 12V LED strips, if you also use our Smart controller you can save more energy by turning down the brightness and set schedule for automatic ON /OFF, which also has the benefit of your home looking alive, even when you're away.

The quality of our products is very high and is certified for CE and RoHS compliance. We use only factories who also produce for some of the major players in the market, this will ensure you can rely on our products for many years to come.



LED



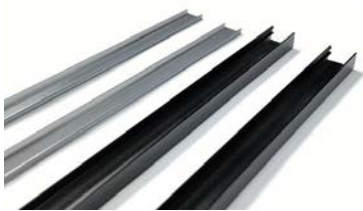
LED COB Strip 3000K, 12V, 2.4m
Warm white 3000K, 800 lumen /M
320 Chips /M, RA 80, Angle 180°
8 MM wide, Cutting Length 25 MM
2-wire (red/black) connection, 2 M Cable
Certifications CE and Rohs, IP20



LED COB CCT Strip 2700K-6500K,, 34W, 12V, 2.4 M
Warm to Cold White, 2700K-6500K, 1050 Lumen /M,
560 Chips, RA 90, Angle 180°
8 MM Wide, Cutting Length 30 mm
3-wire (White/Yellow/Red) connection, 2 M Cable
Certifications CE and Rohs, IP20



LED COB Multi color RGB Strip, 33W, 12V, 2.4 m
Multi color RGB strip, 550 Lumen /M
576 chips/M, Angle 180°
10 MM Wide, cutting Length 30 mm
4-wire (Black/Red/Green/Blue) connection, 2 M Cable
Certifications CE and Rohs, IP20



LED Aluminum Profile, 2 x 1.2 M Profile, Smoked PVC Cover
Measure, 2 X 1,2 M Length, 14.1 MM Wide, 8.8 MM high
Matt Grey Smoked PC cover for smooth even light diffusion
2 X end caps with hole and protective film
Packed in in a PVC Poly bag



LED Power-Driver-12V, 36W or 72W
Input: AC 100-240V
Output: DC 12V, 3-6A
1.2 m DC cable with standard 5.5×2.1 mm DC jack
1 m EU Plug AC power cord
36W for 1 LED Strip, 72W for 2 LED Strips
Certifications CE, GS and Rohs, IP20

SMART



Matter WiFi 5-in-1 LED Controller

Matter + 2.4GHz 5-in-1 controller for LED strips

Compatible with Google, Apple Home, Philips Hue, Samsung, Alexa, Smart Life and many others.

This controller has many functions to control your LED

Use our power – Driver for this controller

Certifications CE and Rohs



WiFi 5-in-1 LED Controller

WiFi + 2.4GHz 5-in-1 controller for LED strips

Compatible control with Google, Smart life and Other

Use App, Remote or voice control of many functions such as Brightness, Color, RGB, Schedule, Music ect.

Use our power – Driver for this controller

Certifications CE and Rohs



Zigbee + RF 5-in-1 LED Controller

Zigbee 3.0 + 2.4GHz 5-in-1 controller for LED strips.

Compatible control with Google, Smart life and Other

Use App, Remote or voice control of many functions such as Brightness, Color, RGB, Schedule, Music ect.

Remark, you need our Zigbee Gateway for this controller

Certifications CE and Rohs



Zigbee 3.0 Gateway – Multi-Mode

Multi-mode Zigbee 3.0 + Bluetooth Mesh gateway for connecting our controller to your Internet Network

Use App, Remote or voice control of many functions such as Brightness, Color, RGB, Schedule, Music ect.

Remark, you need our Zigbee controller for this Gateway

Certifications CE and Rohs



Remote Control for 1 or 4 Zone Model

2.4GHz remote control for Matter, WiFi and Zigbee controller

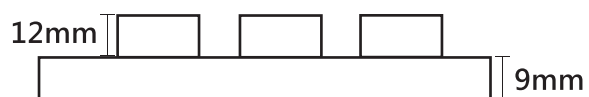
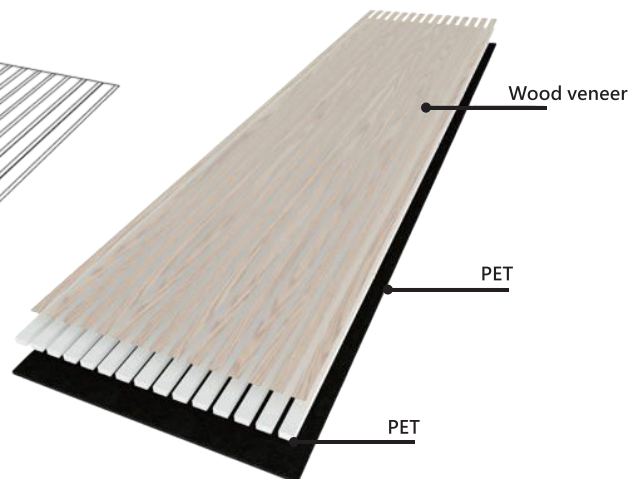
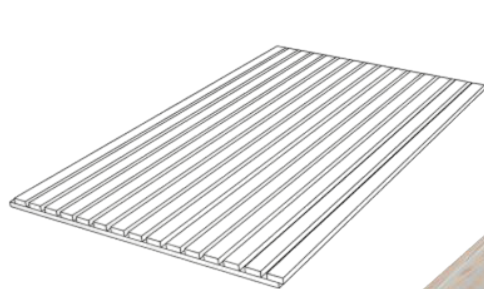
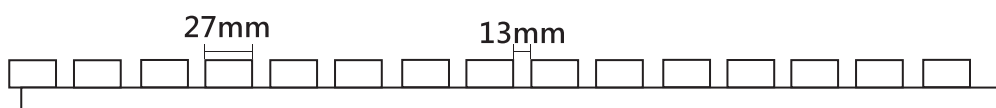
Available in single-zone (C4) or 4 zone (C5) model

Control colors, brightness, color temperature etc.

Certifications CE and Rohs



PRODUCT DETAILS



PET SLAT PANEL

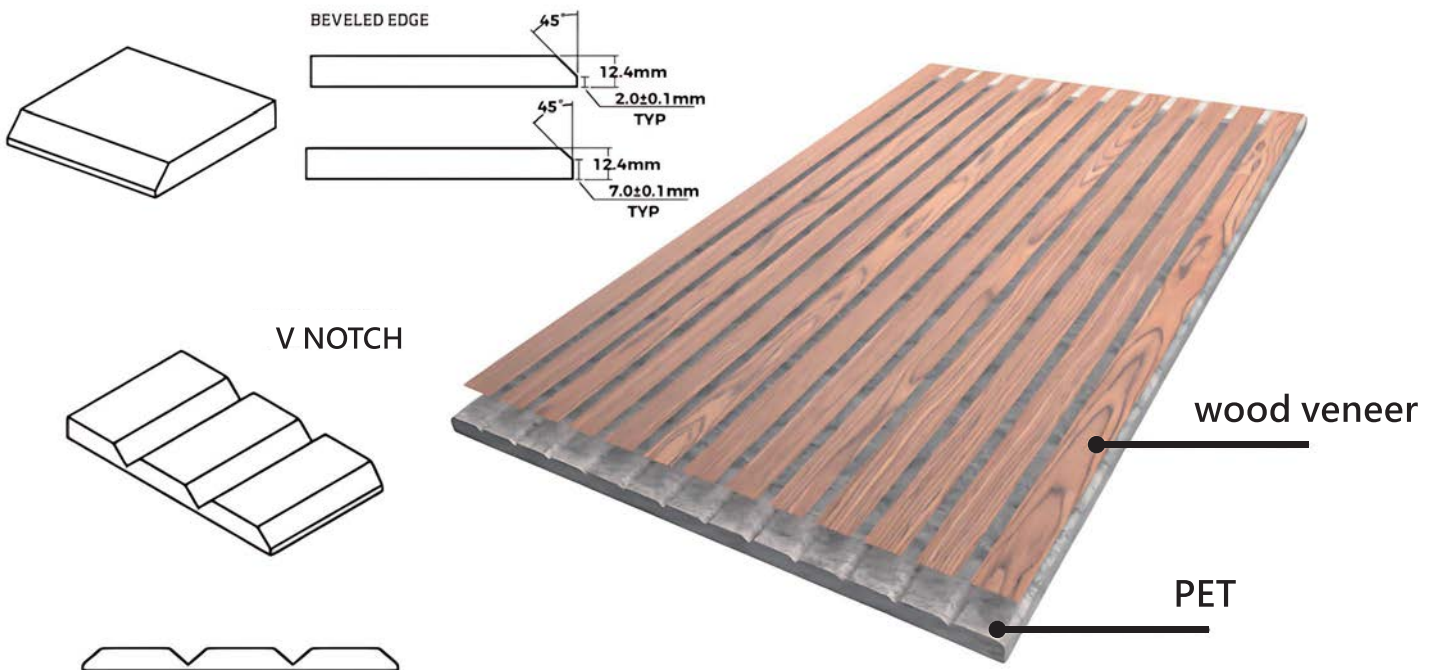
• FEATURE DISPLAY

Sound absorption	Panel width	300-600mm
Fire retardant	Panel height	600-2400mm
Decoration	Thickness	18/21mm
	Wood surface	Natural wood veneer Technological wood veneer





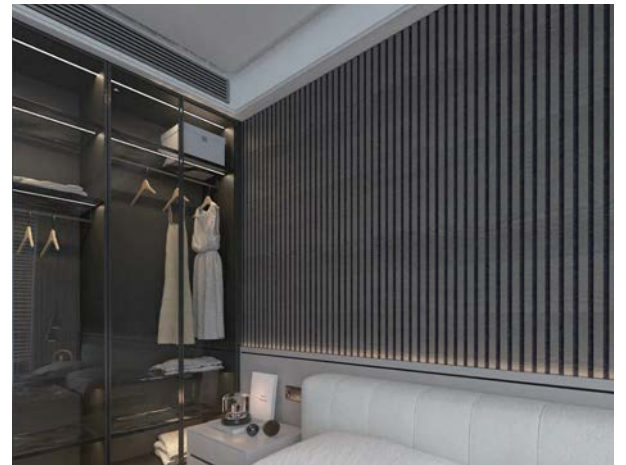
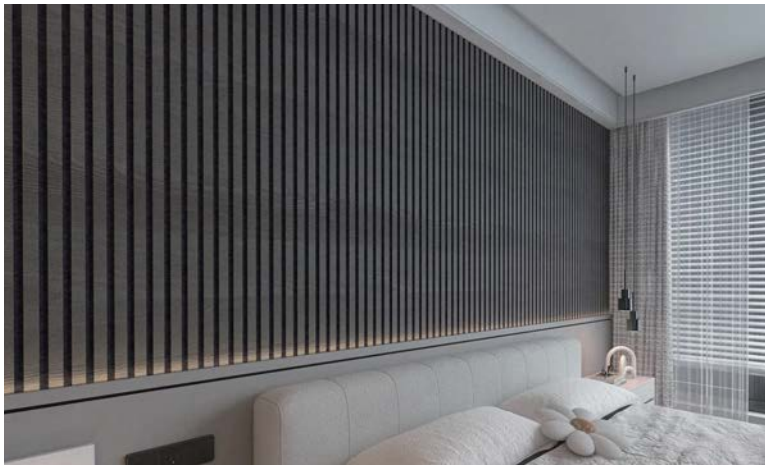
PRODUCT ANATOMY DIAGRAM



PET (V GROOVED) SLAT PANEL (WITHOUT MDF)

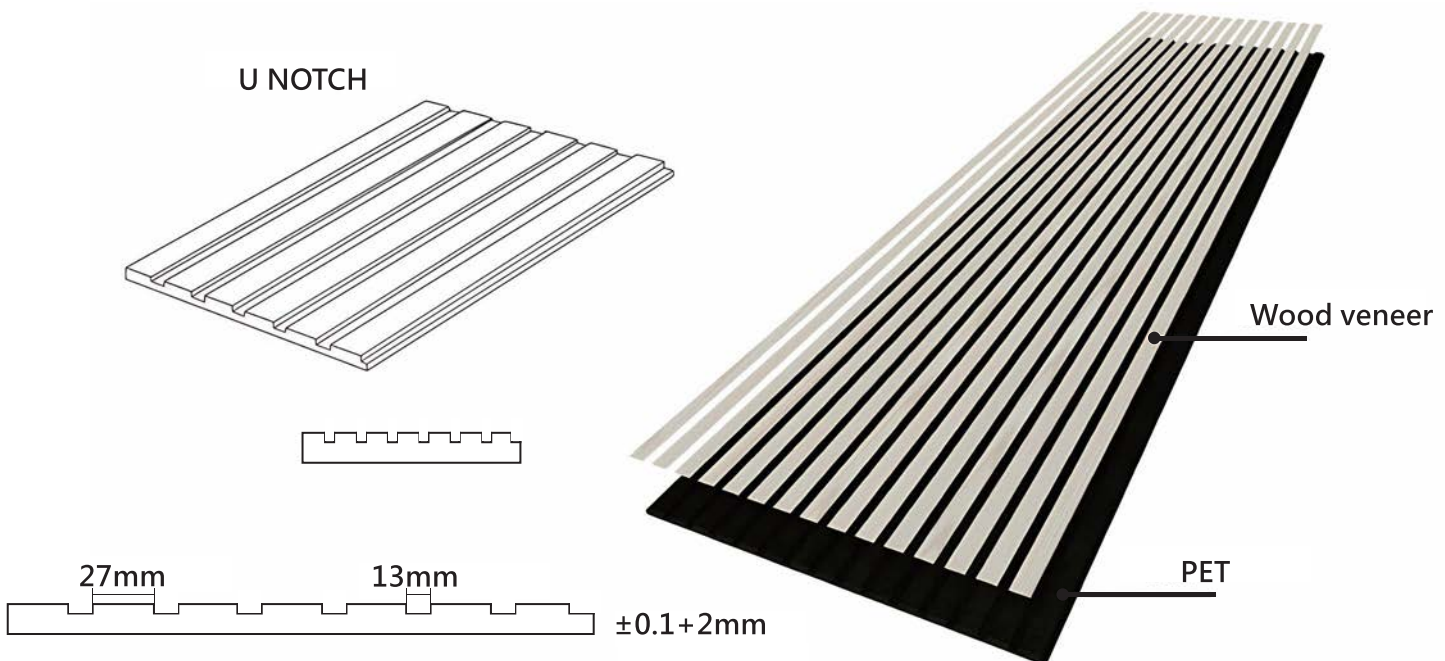
• FEATURE DISPLAY

Sound absorption	Panel width	300-1200mm
Fire retardant	Panel height	2400-3000mm
Decoration	Thickness	12.4mm
	Wood surface	Natural wood veneer Technological wood veneer





PRODUCT ANATOMY DIAGRAM

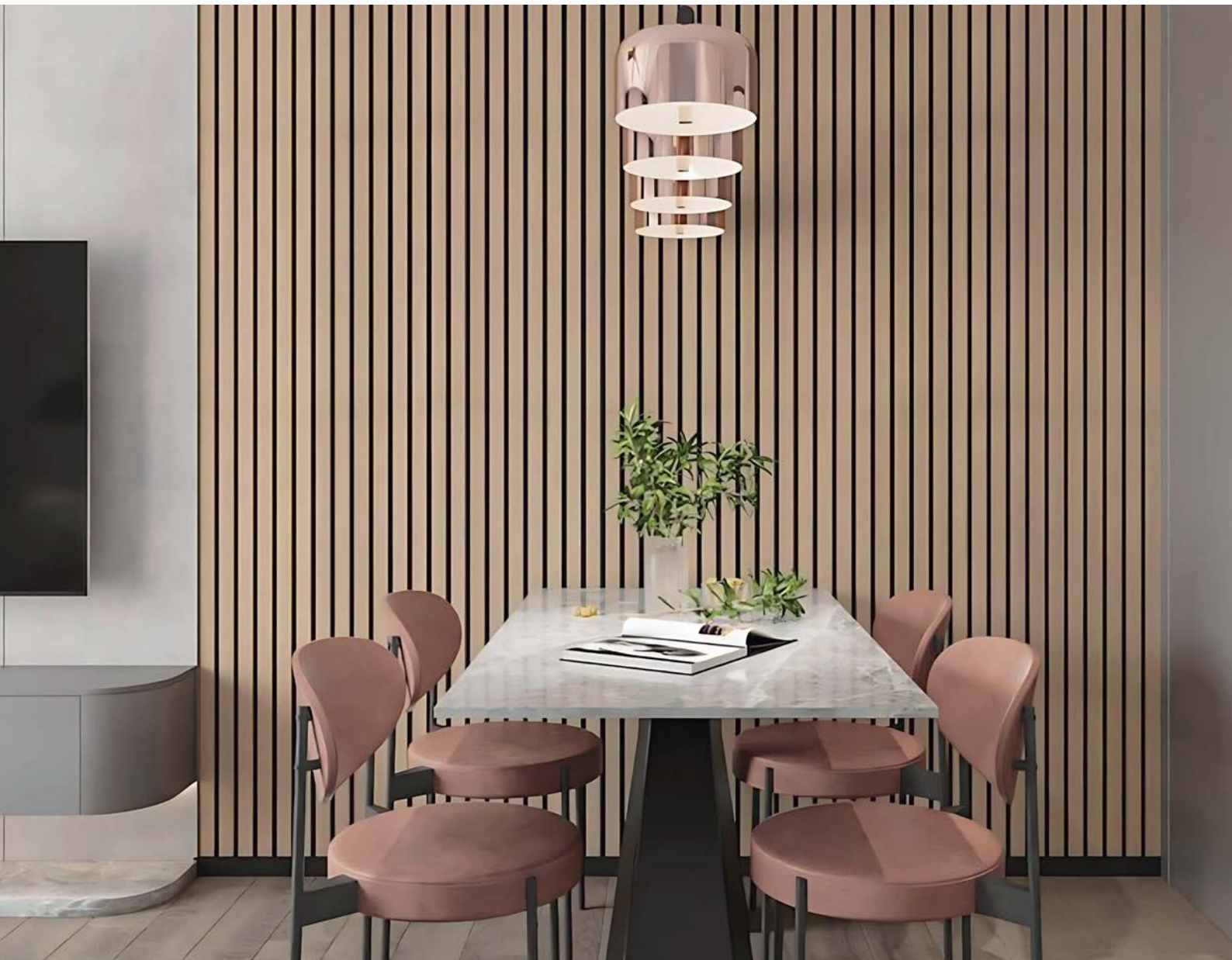


PET (U GROOVED) SLAT PANEL

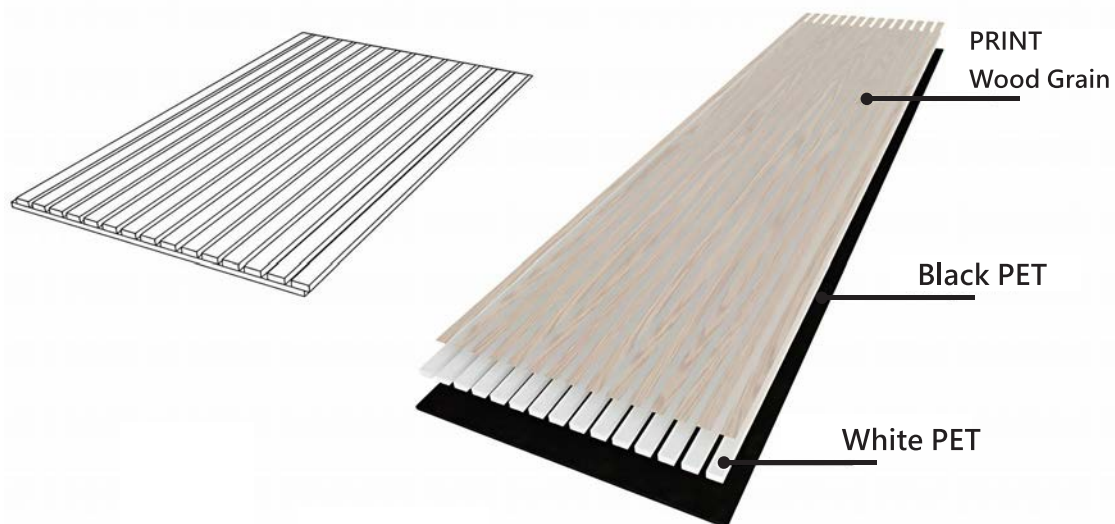
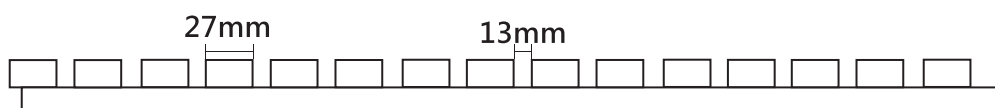
• FEATURE DISPLAY

Sound absorption	Panel width	280mm
Fire retardant	Panel Height	600-3000mm
Decoration	Thickness	9 (±0.1-2) mm
	Wood surface	Natural wood veneer Technological wood veneer





PRODUCT ANATOMY DIAGRAM



WOODEN GRAIN PET SLAT PANEL

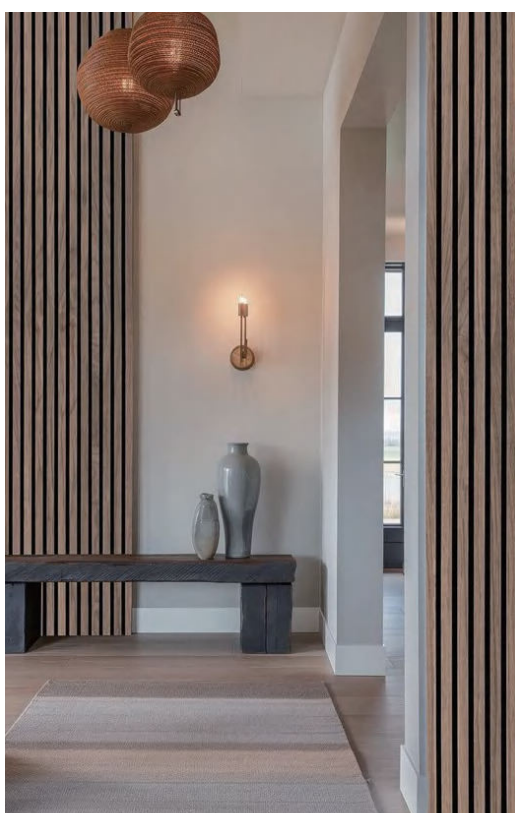
• FEATURE DISPLAY

Sound absorption	Panel width	300-1200mm
Fire retardant	Panel Height	2400-3000mm
Decoration	Thickness	18/21mm
	Wood surface	Natural wood veneer Technological wood veneer





PRODUCT SCENE



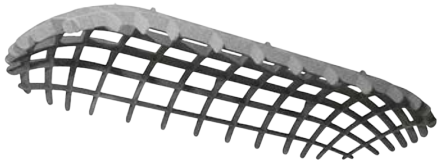
ACOUSTIC CEILING BAFFLES



INTRO

Based on the polyester acoustic panel, the polyester acoustic panel can be cut from 2D to 3D. Different shapes can be combined into different ceiling shapes.

CUSTOMIZABLE MODULE



Cage



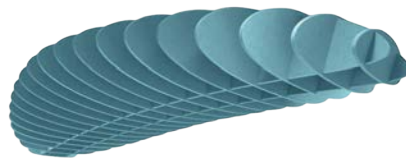
Wave



Interwoven



Disc



Pea

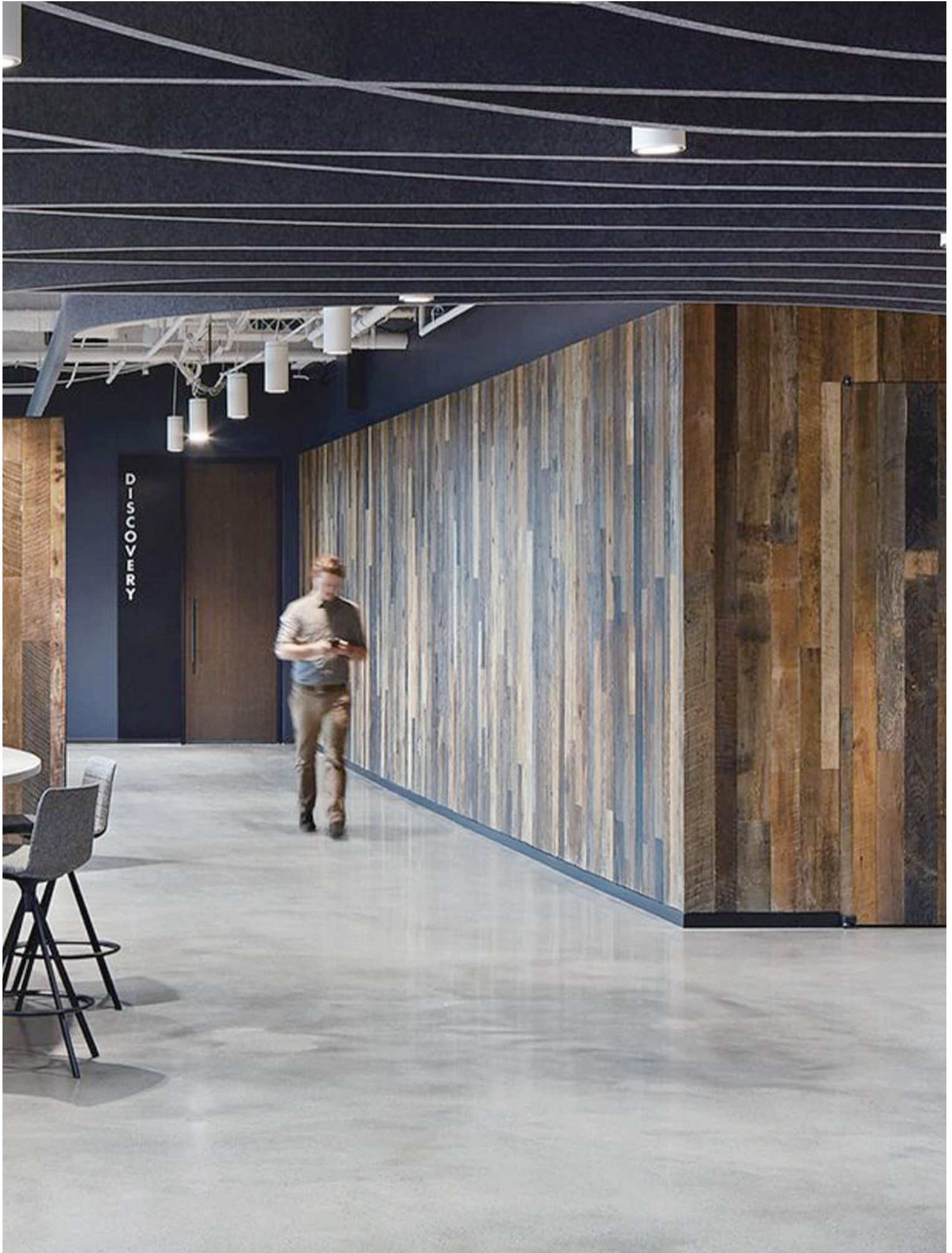


Rectangle

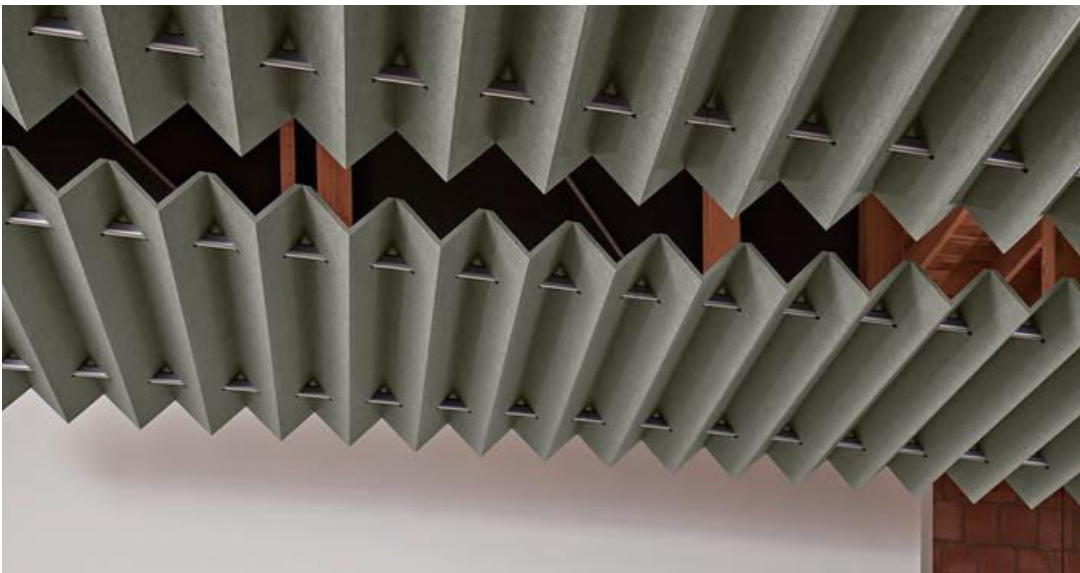
PERFECT FOR

Create a quieter, more comfortable environment in conference rooms, multi-function halls, home, theaters, hotels, gyms, and more.





PRODUCT SCENE



PRINTING POLYESTER ACOUSTIC PANEL

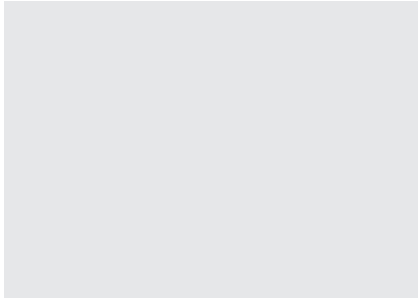


INTRO

Based on the polyester acoustic panel, the polyester acoustic panel can be cut from 2D to 3D. Different shapes can be combined into different ceiling shapes.

CUSTOMIZABLE MODULE

The printing series has a high degree of freedom and can be made according to any pictures you give.



Provide the pattern
you need customized



Spray your pattern
onto a polyester board



Cutting the board
(optional size)

PERFECT FOR

Create a quieter, more comfortable environment in conference rooms, multi-function halls, home, theaters, hotels, gyms, and more.



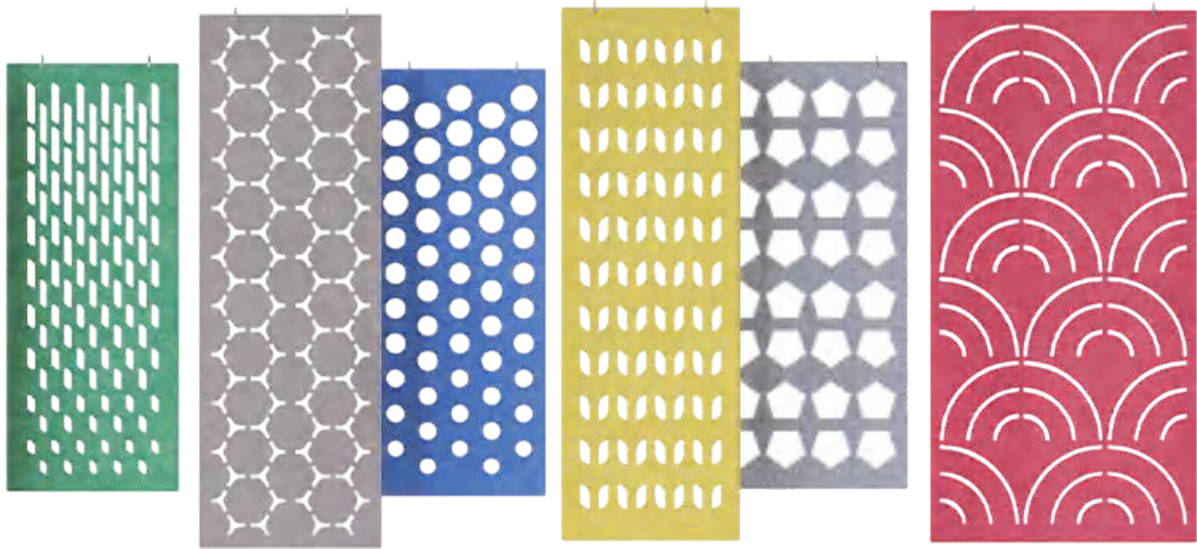
Carved polyester acoustic screen



INTRO

Based on the polyester acoustic panel, The use of laser cutting, cut out different patterns, showing a variety of effects. Make your space more creative.

CUSTOMIZABLE MODULE



PERFECT FOR

Create a quieter, more comfortable environment in conference rooms, multi-function halls, home, theaters, hotels, gyms, and more.



Polyester lamp shade



INTRO

Based on the polyester acoustic panel, The use of laser cutting, cut out the relevant components, and finally the components are combined to form our polyester lamp shade.

CUSTOMIZABLE MODULE



01



02



03



04



05



06



07



08

PERFECT FOR

Create a quieter, more comfortable environment in conference rooms, multi-function halls, home, theaters, hotels, gyms, and more.



Polyester office furniture

INTRO

Based on the polyester acoustic panel, The use of laser cutting, cut out the relevant components, and finally the components are combined to form our polyester lamp shade.

CUSTOMIZABLE MODULE



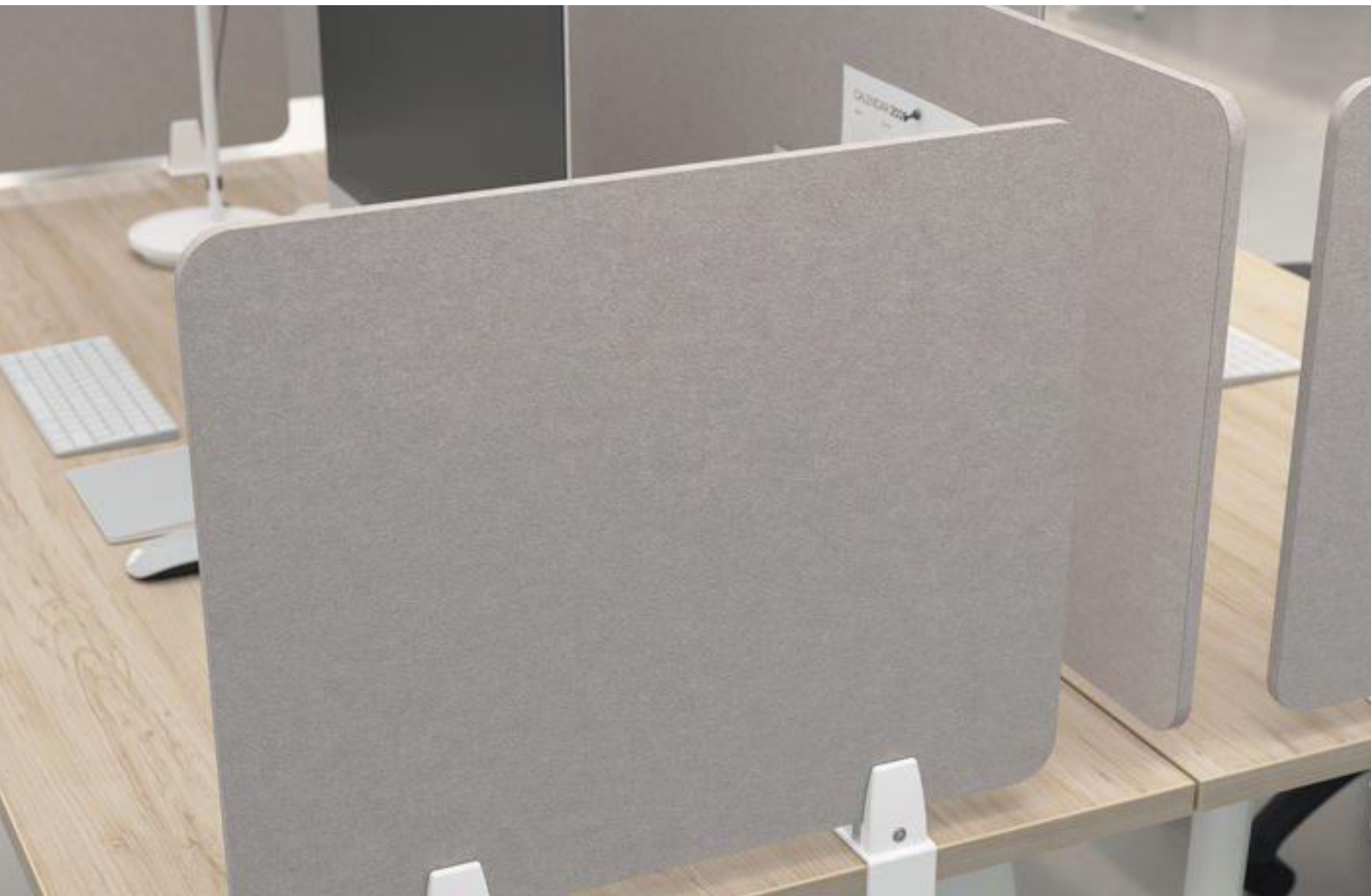
01



02

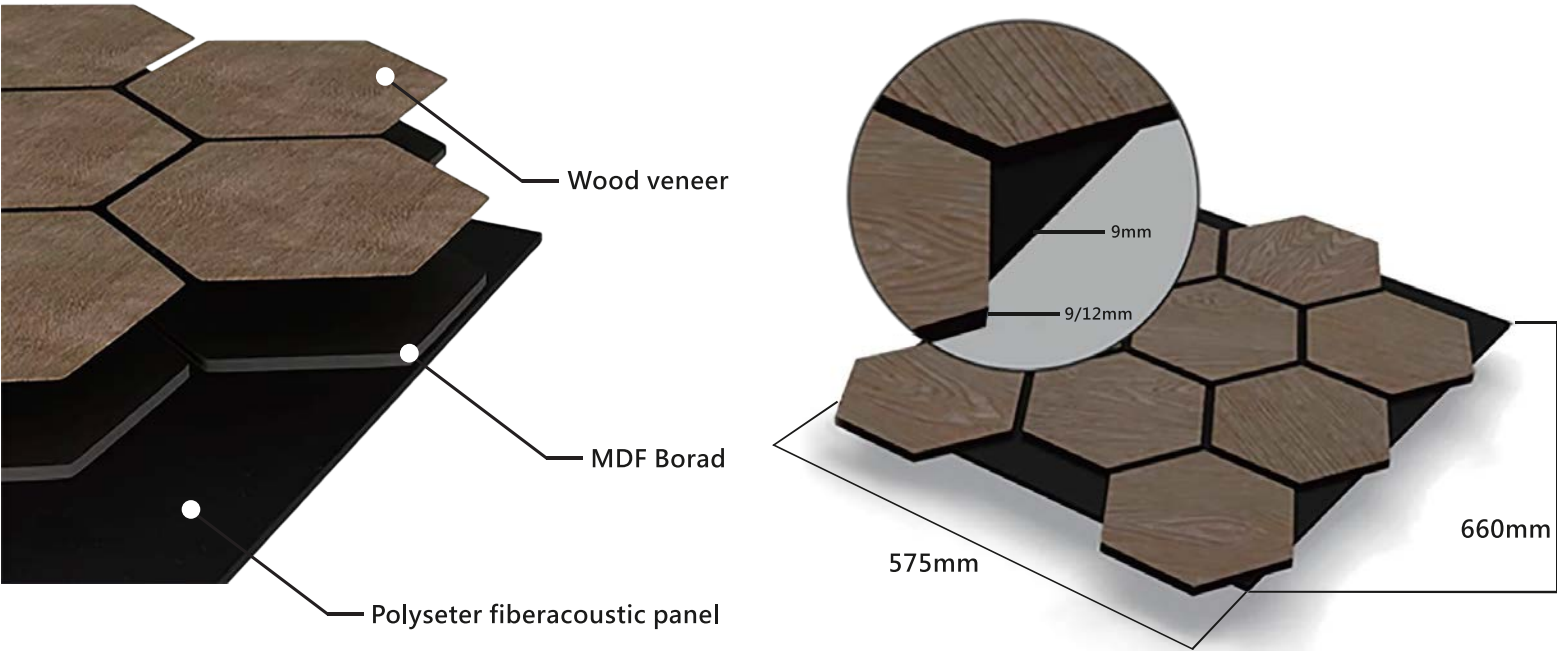
PERFECT FOR

Create a quieter, more comfortable environment in conference rooms, multi-function halls, home, theaters, hotels, gyms, and more.





PRODUCT ANATOMY DIAGRAM



HEXAGON ACOUSTIC PANELS

• FEATURE DISPLAY

Sound absorption	Side length	125/150/180 (Customizable)
Fire retardant	Thickness	18/21mm
High density MDF	Wood surface	Natural wood veneer
Decoration		Technological wood veneer





MULTIPLE STYLE OPTIONS



S Series



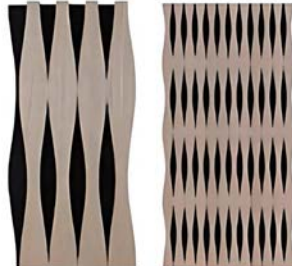
M Series



X Series



C Series



D Series



Q Series

ART SLAT ACOUSTIC PANEL

• FEATURE DISPLAY

Sound absorption	Sizes	Customizable
Fire retardant	Thickness	18/21mm
High density MDF	Wood surface	Natural wood veneer
Decoration		Technological wood veneer



At Reffe we offer a one stop acoustic solution with all kind of products for private homes, public, offices, stores, hotels, and restaurants etc., we create spaces that look and sound better.