**HIGH END ACOUSTICS**
DECORATION
**SOLUTIONS SUPPLIER**

WINEGO

**ACOUSTIC MATERIALS**
SOUND ABSORPTION
SOUND INSULATION & VIBRATION
DIFFUSION

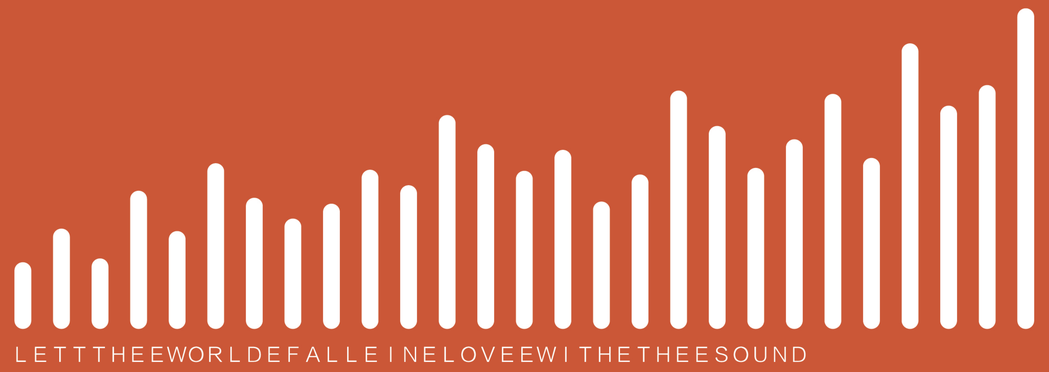
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Baiyun District,Guangzhou,China

www.wywood.com
www.winego.com.cn
E-mail: info@wywood.com

☎ 400-611-3338





# HIGH END ACOUSTIC MATERIALS CREATE THE SOUND OF NATURE

WINEGO, With The World-class Standards

Building Top Quality In Acoustic Field

Using E1 / E0 /ENF Grade Environmental Materials

Eco-friendly, Fire-resistant, Aesthetics

Vision Of “International Representative Of High End Acoustic Materials”

Diligent, Aiming At High Aspirations

Melodious, Creating The Sound Of Nature









# FOCUS ON ACOUSTIC MATERIALS BUILD AN INDUSTRY BENCHMARK



National High-tech Enterprise



Intellectual Property Management System



ISO9001: 2015 Quality Management System(QMS)



ISO14001: 2015 Environment Management System

Guangzhou Winego Acoustic Materials Co., Ltd. was established in 2005. We are a professional manufacturer focusing on high-end acoustic materials and wooden decoration materials. The company covers an area of more than 20,000 square meters, with more than 10,000 square meters of workshop and office space. With multiple production workshops for sound absorption materials, sound insulation and vibration reduction materials, diffusion materials, and wood decorative panels, it is currently a large-scale acoustic material and wood decorative material manufacturer in South China.

We have a strong technical research and development, product design, and acoustic design team. We are committed to acoustic decoration and wooden decoration system solutions, mainly including: material research and development, material production, acoustics and decoration design, acoustic decoration engineering construction, to provide customers with a full range of system services.

Our company is a national high-tech enterprise and a participating unit of China's "Specifications for Acoustic Design of Large Public Space Buildings". It has passed ISO9001: 2000 international quality management system certification, national intellectual property management system certification, and EU CE certification. It has 33 national utility models and invention patents, more than 100 various acoustic test reports of Tsinghua University, South China University of Technology, more than 100 national, British, American, and European standard test reports from the National Inspection Center and SGS.

We are a self-operated import and export enterprise, and 50% of our products are exported abroad. We are committed to product quality, high-end product development and excellent service. More and more internationally renowned companies have begun to establish cooperation with us and become strategic partners. WINEGO has become an international business card for China's high-end acoustic decorative materials.

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# GROOVED ACOUSTIC PANEL



## PRODUCT INTRODUCTION

Grooved acoustic panel is the common sound absorption materials in modern buildings. According to the principle of acoustic science, the structure of the product is a groove on the surface and a through hole on the back. is basing on scientific calculation and acoustic theories. The panel has excellent noise reduction and sound absorption performance, especially for medium and low frequencies. Meanwhile, the natural wood grain and diverse finish provide good visual effects for everyone.

## SPECIFICATIONS

| | |
|---|---|
| Name | Grooved Acoustic Panel |
| Base Materials | Standard MDF/Eco-friendly pine EO MDF/Black MDF/other customized MDF |
| Finish | Veneer / Melamine / HPL Fire-proof / PU Painting |
| Back | Black Fire-resistant Sound Absorbing Fleece / Soundtex Sound Absorbing Fleece |
| Model | 59-5/40-3/28-4/18-3/14-2/13-3/9-2/5-3, Art, other customized models |
| Size | W 133mm/197mm*L 2440mm*T 12/15/18mm or other customized |

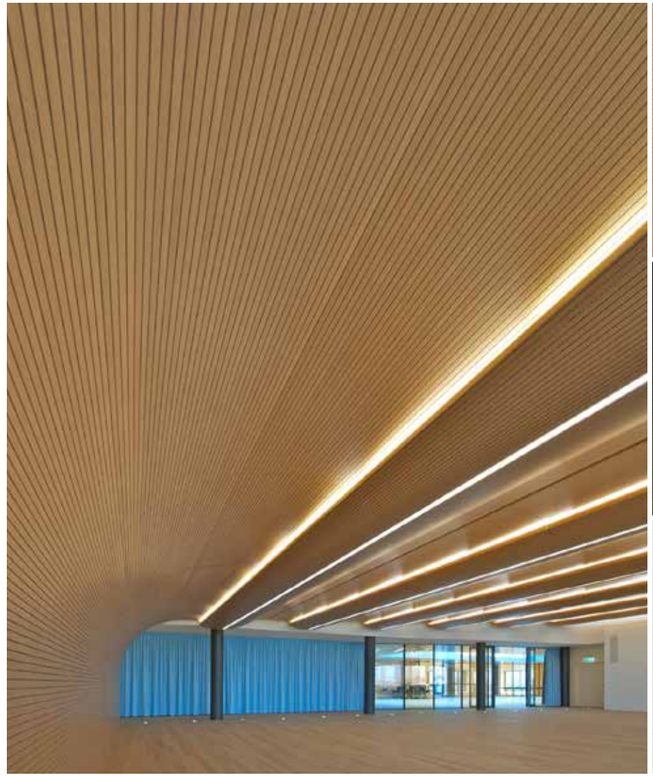
## FEATURES

Eco-friendly: all materials meet the national and international environmental protection standards. The product contains little formaldehyde with natural wood fragrant. Non-formaldehyde is also available.
Fire-resistant: fire-resistant panels can reach class a under ASTM-E84 standard, Class 1 under BS476 part 7 standard EN13501.

Easy installation: standard module product, could be installed easily with keel and fastener.

## APPLICATION

Multi-functional hall, Conference room, Opera house, Cinema, Auditorium, Hotel, TV station, Music hall, Piano room, Gymnasium, Villa, or any place which needs high acoustic performance.









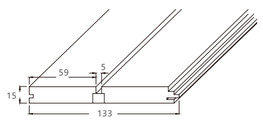


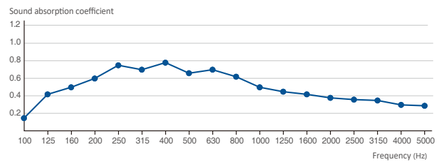


## 59-5



Open area：5.5%



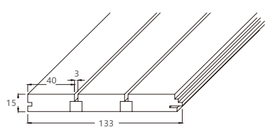



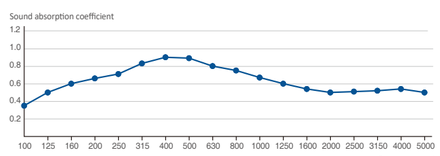

| Frequency | 100 | 125 | 160 | 200 | 250 | 315 | 400 | 500 | 630 | 800 | 1000 | 1250 | 1600 | 2000 | 2500 | 3150 | 4000 | 5000 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sound absorption coefficient | 0.15 | 0.42 | 0.50 | 0.60 | 0.75 | 0.70 | 0.78 | 0.66 | 0.70 | 0.62 | 0.50 | 0.45 | 0.42 | 0.38 | 0.36 | 0.35 | 0.30 | 0.29 |

## 40-3



Open area：5.0%



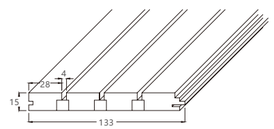



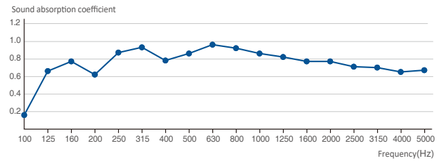

| Frequency | 100 | 125 | 160 | 200 | 250 | 315 | 400 | 500 | 630 | 800 | 1000 | 1250 | 1600 | 2000 | 2500 | 3150 | 4000 | 5000 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sound absorption coefficient | 0.35 | 0.50 | 0.60 | 0.66 | 0.71 | 0.83 | 0.90 | 0.89 | 0.80 | 0.75 | 0.67 | 0.60 | 0.54 | 0.50 | 0.51 | 0.52 | 0.54 | 0.50 |

## 28-4



Open area：8.0%



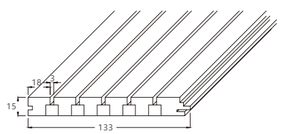



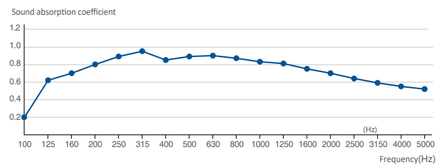

| Frequency | 100 | 125 | 160 | 200 | 250 | 315 | 400 | 500 | 630 | 800 | 1000 | 1250 | 1600 | 2000 | 2500 | 3150 | 4000 | 5000 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sound absorption coefficient | 0.16 | 0.66 | 0.77 | 0.62 | 0.87 | 0.93 | 0.78 | 0.86 | 0.96 | 0.92 | 0.86 | 0.82 | 0.77 | 0.77 | 0.71 | 0.70 | 0.65 | 0.67 |

## 18-3



Open area：9.0%



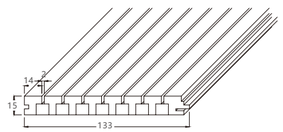

| Frequency | 100 | 125 | 160 | 200 | 250 | 315 | 400 | 500 | 630 | 800 | 1000 | 1250 | 1600 | 2000 | 2500 | 3150 | 4000 | 5000 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sound absorption coefficient | 0.20 | 0.62 | 0.70 | 0.80 | 0.89 | 0.95 | 0.85 | 0.89 | 0.90 | 0.87 | 0.83 | 0.81 | 0.75 | 0.70 | 0.64 | 0.59 | 0.55 | 0.52 |

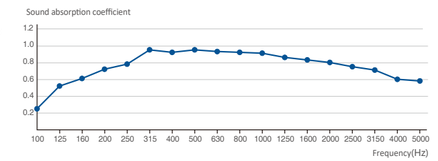


## 14-2



Open area：8.0%



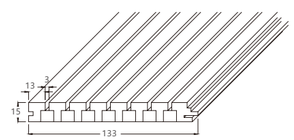



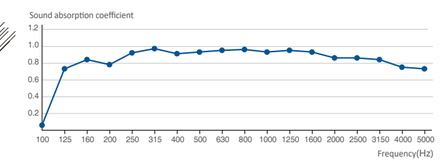

| Frequency | 100 | 125 | 160 | 200 | 250 | 315 | 400 | 500 | 630 | 800 | 1000 | 1250 | 1600 | 2000 | 2500 | 3150 | 4000 | 5000 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sound absorption coefficient | 0.25 | 0.52 | 0.61 | 0.72 | 0.78 | 0.95 | 0.93 | 0.95 | 0.93 | 0.92 | 0.91 | 0.86 | 0.83 | 0.80 | 0.75 | 0.71 | 0.60 | 0.58 |

## 13-3



Open area：12.0%



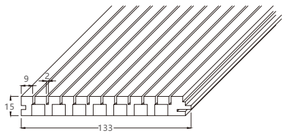



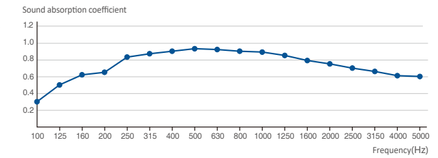

| Frequency | 100 | 125 | 160 | 200 | 250 | 315 | 400 | 500 | 630 | 800 | 1000 | 1250 | 1600 | 2000 | 2500 | 3150 | 4000 | 5000 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sound absorption coefficient | 0.06 | 0.73 | 0.84 | 0.78 | 0.92 | 0.97 | 0.91 | 0.93 | 0.95 | 0.96 | 0.93 | 0.95 | 0.93 | 0.86 | 0.86 | 0.84 | 0.75 | 0.73 |

## 9-2



Open area：12.0%



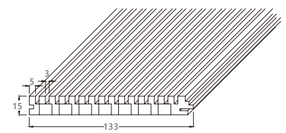



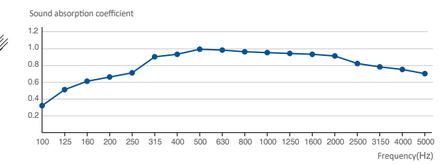

| Frequency | 100 | 125 | 160 | 200 | 250 | 315 | 400 | 500 | 630 | 800 | 1000 | 1250 | 1600 | 2000 | 2500 | 3150 | 4000 | 5000 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sound absorption coefficient | 0.30 | 0.50 | 0.62 | 0.65 | 0.83 | 0.87 | 0.90 | 0.93 | 0.92 | 0.90 | 0.89 | 0.85 | 0.79 | 0.75 | 0.70 | 0.66 | 0.61 | 0.60 |

## 5-3



Open area：19.0%

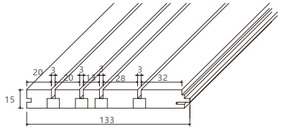


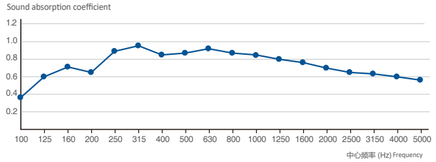

| Frequency | 100 | 125 | 160 | 200 | 250 | 315 | 400 | 500 | 630 | 800 | 1000 | 1250 | 1600 | 2000 | 2500 | 3150 | 4000 | 5000 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sound absorption coefficient | 0.32 | 0.51 | 0.61 | 0.66 | 0.71 | 0.90 | 0.93 | 0.99 | 0.98 | 0.96 | 0.95 | 0.94 | 0.93 | 0.91 | 0.82 | 0.78 | 0.75 | 0.70 |

## GA-Art






Open area：7.5%




| Frequency | 100 | 125 | 160 | 200 | 250 | 315 | 400 | 500 | 630 | 800 | 1000 | 1250 | 1600 | 2000 | 2500 | 3150 | 4000 | 5000 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sound absorption coefficient | 0.36 | 0.60 | 0.71 | 0.65 | 0.89 | 0.95 | 0.85 | 0.87 | 0.92 | 0.87 | 0.85 | 0.80 | 0.76 | 0.70 | 0.65 | 0.63 | 0.60 | 0.56 |



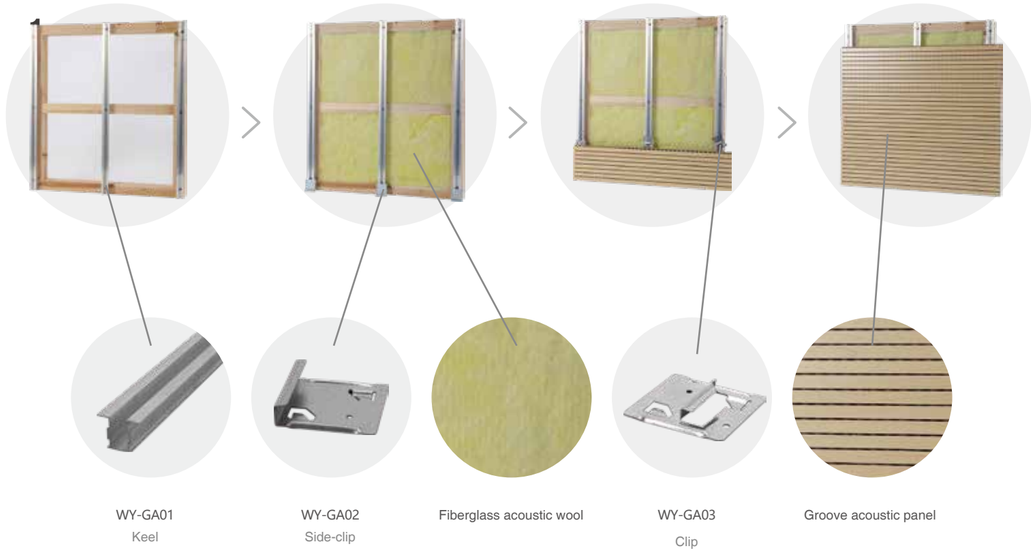








# WALL INSTALLATION METHOD



WY-GA01
Keel

WY-GA02
Side-clip

Fiberglass acoustic wool

WY-GA03
Clip

Groove acoustic panel

## Preparation before installation and requirements of the installation site

**01** The installation site must be dry and reach the specified temperature and humidity standards at least 24 hours before installation. The minimum temperature required by the installation site is 15 degrees, and the maximum humidity change value after installation should be controlled within the range of 40%-60%.

**02** Before installation, the packaging box must be opened for at least 48hours, so that the product can achieve the same environmental characteristics as the installation site.

**03** To install the wood keel or steel keel as per design drawing and construction drawing. The configuration for the keel should be the sameas the wood acoustic panel. The recommended distance is 300~600mm.

**04** The gap between the keel should be filled with fiberglass acoustic wool,  which needs to be installed and treated in advance according to the design, and will not affect the installation of the acoustic panel.

# STEEL KEEL AND CLIPS INSTALLATION METHOD

1.Fix keel WY-GA01 on the wooden battens by gunnail and screw.

2.Clip WY-GA02, WY-GA03 insert into keel WY-GA01, pls make sure the wood acoustic panel be fixed.

3.The installation sequence is from left to right and from bottom to top.

4.If want to adjust the panels, pls adjust the clips WY-GA02, WY-GA03.

5.Leave a 3mm natural gap between the head of panel, keep all the gap in the same line. Staggered installation is not recommended.



Correct



Not recommend

# WOOD BATTENS INSTALLATION METHOD



**01**

Use the wood battens level the wall

>

**02**

Filled with fiberglass acoustic wool (T 25-100mm, D 32kg/m$^3$ or 48kg/m$^3$)

>

**03**

Fix the panels on the wood battens by gun nail





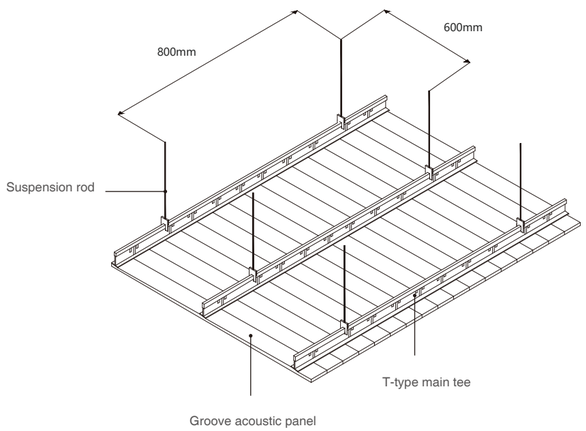


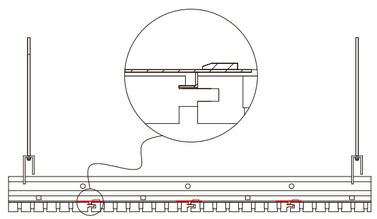







# CEILING INSTALLATION METHOD





WY-GA02
Side-clip



WY-T
Main tee



WY-GA03
Clip



**01** Fix the tee grid system onto the ceiling



**02** Fix the WY-GA02 clip onto the tee grid



**03** Clip in the acoustic panel into WY-GA02 clip



**04** Fix the WY-GA03 clip onto acoustic panel



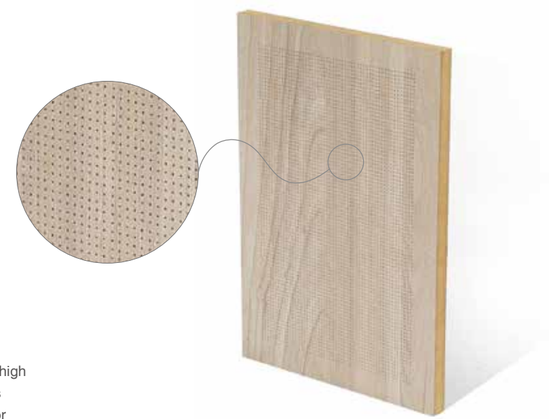
**05** Fix the acoustic panel together one by one



**06** Fix completed



# PERFORATED ACOUSTIC PANEL



## PRODUCT INTRODUCTION

The structure of hole perforation in front and back basing on scientific calculation and acoustic principle. Wooden perforated acoustic panel has high sound absorption performance in low and middle frequency. It has various finish color and materials choice to meet customer's diversified request for acoustic and decoration and provide safety promise for environment protection and fire-resistant.

## SPECIFICATIONS

| | |
|---|---|
| Name | Perforated Acoustic Panel |
| Base Materials | Standard MDF/Eco-friendly pine EO MDF/Black MDF/other customized MDF |
| Finish | Veneer / Melamine / HPL Fire-proof / PU Painting |
| Back | Black Fire-resistant Sound Absorbing Fleece / Soundtex Sound Absorbing Fleece |
| Model | E16/6/15，E16/8/15, V32/6/15，E16/3-10/15，E24/8/15，other customized model |
| Size | W 600/1200mm*L 600/1200/2400mm*T 12/15/18mm, other customized |
| Eco Performance | All materials meet the national and international environmental protection standard. The product contains little formaldehyde with natural wood fragrant. Non-formaldehyde is also available |
| Fire Performance | Reach to Class 1 under BS476 part 7 standard，Class A under ASTM-E84 standard |

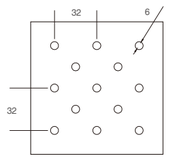
**APPLICATION**

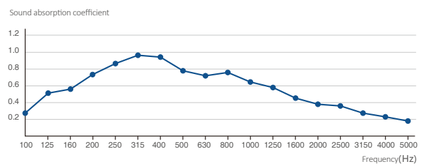
Multi-functional hall, Conference room, Opera house, Cinema, Auditorium, Hotel, TV station, Music hall, Piano room, Gymnasium, Villa, or any place which needs high acoustic performance.

## V32/6/15



Open area：6%



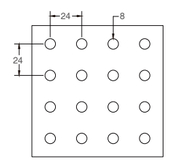



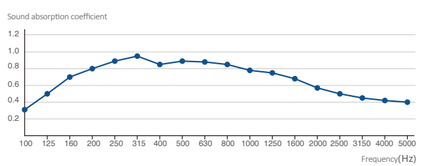

| Frequency | 100 | 125 | 160 | 200 | 250 | 315 | 400 | 500 | 630 | 800 | 1000 | 1250 | 1600 | 2000 | 2500 | 3150 | 4000 | 5000 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sound absorption coefficient | 0.28 | 0.53 | 0.57 | 0.76 | 0.86 | 0.98 | 0.95 | 0.78 | 0.75 | 0.77 | 0.64 | 0.58 | 0.46 | 0.38 | 0.36 | 0.28 | 0.23 | 0.18 |

## E24/8/15



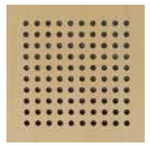
Open area：9%



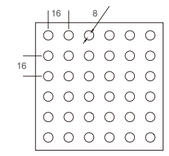



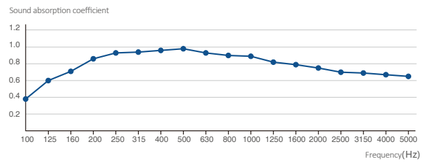

| Frequency | 100 | 125 | 160 | 200 | 250 | 315 | 400 | 500 | 630 | 800 | 1000 | 1250 | 1600 | 2000 | 2500 | 3150 | 4000 | 5000 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sound absorption coefficient | 0.31 | 0.50 | 0.70 | 0.80 | 0.89 | 0.95 | 0.85 | 0.89 | 0.88 | 0.85 | 0.78 | 0.75 | 0.68 | 0.57 | 0.50 | 0.45 | 0.42 | 0.40 |

## E16/8/15



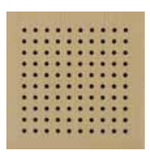
Open area：20%



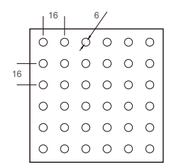



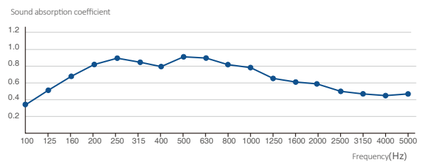

| Frequency | 100 | 125 | 160 | 200 | 250 | 315 | 400 | 500 | 630 | 800 | 1000 | 1250 | 1600 | 2000 | 2500 | 3150 | 4000 | 5000 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sound absorption coefficient | 0.38 | 0.60 | 0.71 | 0.86 | 0.93 | 0.94 | 0.96 | 0.98 | 0.93 | 0.90 | 0.89 | 0.82 | 0.79 | 0.75 | 0.70 | 0.69 | 0.67 | 0.65 |

## E16/6/15



Open area：11%

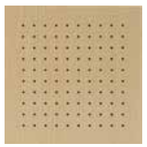


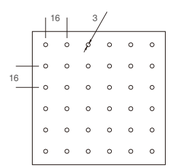

| Frequency | 100 | 125 | 160 | 200 | 250 | 315 | 400 | 500 | 630 | 800 | 1000 | 1250 | 1600 | 2000 | 2500 | 3150 | 4000 | 5000 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sound absorption coefficient | 0.35 | 0.51 | 0.68 | 0.82 | 0.90 | 0.85 | 0.80 | 0.92 | 0.90 | 0.82 | 0.79 | 0.66 | 0.61 | 0.59 | 0.50 | 0.47 | 0.45 | 0.47 |

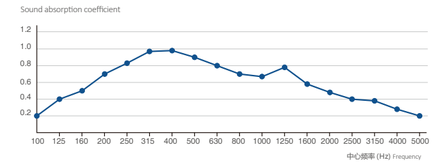


## PAE16/3-10/15



Open area：3%



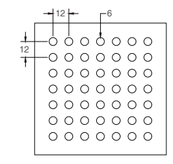



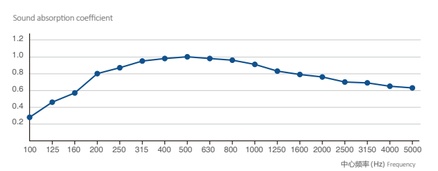

| Frequency | 100 | 125 | 160 | 200 | 250 | 315 | 400 | 500 | 630 | 800 | 1000 | 1250 | 1600 | 2000 | 2500 | 3150 | 4000 | 5000 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sound absorption coefficient | 0.20 | 0.40 | 0.50 | 0.70 | 0.83 | 0.97 | 0.98 | 0.90 | 0.80 | 0.70 | 0.67 | 0.78 | 0.58 | 0.48 | 0.40 | 0.38 | 0.28 | 0.20 |

## PAE12/6/15



Open area：20%




| Frequency | 100 | 125 | 160 | 200 | 250 | 315 | 400 | 500 | 630 | 800 | 1000 | 1250 | 1600 | 2000 | 2500 | 3150 | 4000 | 5000 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sound absorption coefficient | 0.29 | 0.46 | 0.57 | 0.80 | 0.87 | 0.95 | 0.98 | 1.00 | 0.98 | 0.96 | 0.91 | 0.83 | 0.79 | 0.76 | 0.70 | 0.69 | 0.65 | 0.63 |





















# MICRO-PERFORATED ACOUSTIC PANEL



## PRODUCT INTRODUCTION

The micro-perforated acoustic panel adopts perforated sound-absorbing design, with micro-hole on the front, the hole diameter is 0.4~1mm, the distance between the center of the hole is 3~10mm, and the large hole is opened on the back to form a Helmholtz resonance system. The characteristics of high sound-resistance and micro-perforated make the micro-perforated acoustic panel have a good performance for sound absorption and noise reduction at medium and low frequencies.
Micro-perforated acoustic panel is made of high-quality panel, which has the properties of environmental protection, fire-resistant, etc., and has a wide selection of finish and base materials, which can well meet thediversified acoustic and decorative needs of customers.

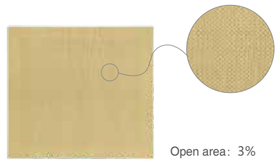
## SPECIFICATIONS

| | |
|---|---|
| Name | Micro-Perforated Acoustic Panel |
| Base Materials | Standard MDF/Eco-friendly pine EO MDF/Black MDF/other customized MDF |
| Finish | Veneer/Melamine/HPL Fire-proof/PU Paint |
| Back | Black Fire-resistant Sound Absorbing Fleece / Soundtex Sound Absorbing Fleece |
| Model | V4/0.7-12/15, E5/1-12/15, E8/1-12/15 |
| Size | W 600 /1200mm*L 600/1200/2400mm*T 12/15/18mm , other customized |
| Eco Performance | All materials meet the national and international environmental protection standard E1 (Formaldehyde Emission limit in Wood-based Panels of Interior Decoration Materials and their products). Non-formaldehyde is also available |
| Fire Performance | Fire-resistant panels can reach class A under ASTM-E84 1 under BS476 part 7 standard |

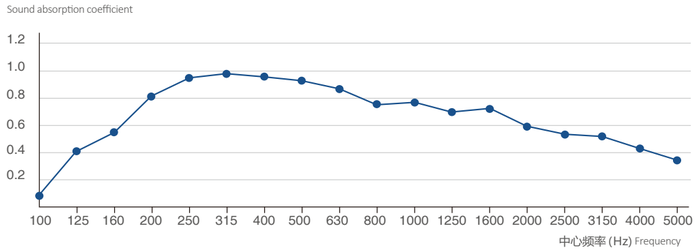
## APPLICATION

Multifunctional halls, Conference rooms, Lecture halls, Opera houses, Concert halls, Gymnasiums, Home theaters or places with high acoustic and aesthetic requirements in home living.

## PAV4/0.7-12/15

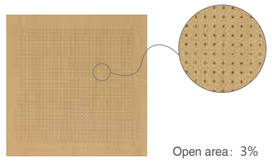


Open area：3%

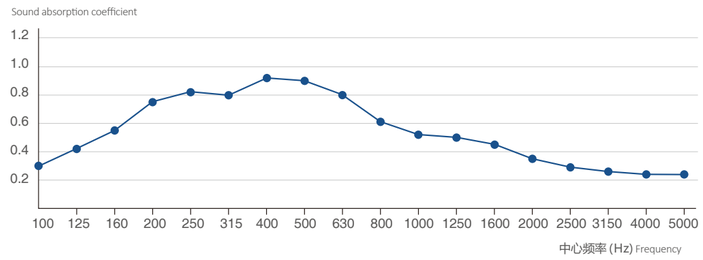



| Frequency | 100 | 125 | 160 | 200 | 250 | 315 | 400 | 500 | 630 | 800 | 1000 | 1250 | 1600 | 2000 | 2500 | 3150 | 4000 | 5000 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sound absorption coefficient | 0.08 | 0.41 | 0.55 | 0.81 | 0.95 | 0.98 | 0.96 | 0.93 | 0.87 | 0.75 | 0.77 | 0.70 | 0.72 | 0.59 | 0.53 | 0.52 | 0.43 | 0.34 |

## PAE5/1-12/15

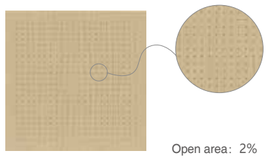


Open area：3%

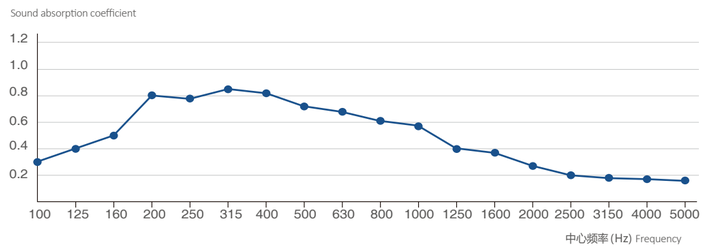



| Frequency | 100 | 125 | 160 | 200 | 250 | 315 | 400 | 500 | 630 | 800 | 1000 | 1250 | 1600 | 2000 | 2500 | 3150 | 4000 | 5000 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sound absorption coefficient | 0.30 | 0.42 | 0.55 | 0.75 | 0.82 | 0.80 | 0.92 | 0.90 | 0.80 | 0.61 | 0.52 | 0.50 | 0.45 | 0.35 | 0.30 | 0.26 | 0.24 | 0.24 |

## PAE8/1-12/15



Open area：2%




| Frequency | 100 | 125 | 160 | 200 | 250 | 315 | 400 | 500 | 630 | 800 | 1000 | 1250 | 1600 | 2000 | 2500 | 3150 | 4000 | 5000 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sound absorption coefficient | 0.30 | 0.40 | 0.50 | 0.80 | 0.78 | 0.85 | 0.82 | 0.72 | 0.68 | 0.61 | 0.57 | 0.40 | 0.37 | 0.27 | 0.20 | 0.18 | 0.17 | 0.16 |













# SUPER MICRO-PERFORATED ACOUSTIC PANEL



## PRODUCT INTRODUCTION

Based on the principle of Helmholtz resonator, super micro-perforated acoustic panel can achieve NRC as high as 0.80 and average sound absorption coefficient as high as 0.70 with the aperture of 0.5mm and the perforation rate of 4%. It is a product with perfect combination of decorative and acoustic functions, especially for medium and low frequency sound absorption.
Super micro-perforated acoustic panel is made of high-quality panel, which has environmental protection, fire resis tance and other properties, and has a wide selection of finishes and base materials, which can well meet the diversified acoustic and decorativ needs of customers.

## SPECIFICATIONS

| | |
|---|---|
| Name | Super Micro-Perforated Acoustic Panel |
| Base Materials | Standard MDF/Eco-friendly pine EO MDF/Black MDF/other customized MDF |
| Finish | Veneer / Melamine / HPL |
| Back | Black Fire-resistant Acoustic Fleece / Soundtex Acoustic Fleece |
| Model | V2.2/0.5-12/15 |
| Size | W 600/1200mm*L 600/1200/2400mm*T 12/15/18mm , other customized |
| Eco Performance | Reach to E1/E0 of GB18580-2017； VOC A+ certification |
| Fire Performance | Reach to Class 1 under BS476 part 7 standard， Class A under ASTM-E84 standard |

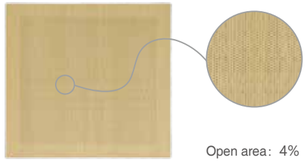
## APPLICATION

Multifunctional halls, Conference rooms, Lecture halls, Opera houses, Concert halls, Gymnasiums, Home theaters or places with high acoustic and aesthetic requirements in home life.

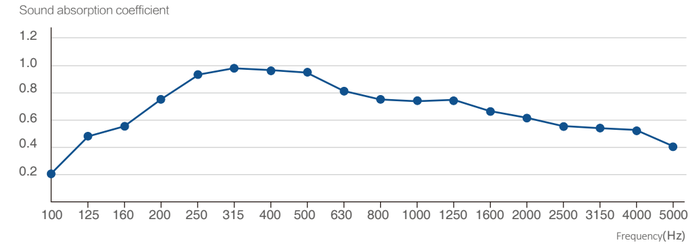


Sound absorption structure: Super micro-perforated acoustic panel (V2.2/0.5-12/15 type) +50mm thick fiberglass panel +100mm cavity. The test data comes from Architectural Acoustics Laboratory of South China University of Technology.

**V2.2/0.5-12/15**



Open area：4%




| Frequency | 100 | 125 | 160 | 200 | 250 | 315 | 400 | 500 | 630 | 800 | 1000 | 1250 | 1600 | 2000 | 2500 | 3150 | 4000 | 5000 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sound absorption coefficient | 0.20 | 0.48 | 0.55 | 0.75 | 0.93 | 0.98 | 0.96 | 0.95 | 0.81 | 0.75 | 0.74 | 0.74 | 0.66 | 0.61 | 0.55 | 0.54 | 0.52 | 0.40 |







# CURVED ACOUSTIC PANEL



## PRODUCT INTRODUCTION

More and more customers and architects are interested in curved ceiling and curved wall panel. The curved panel is widely used in high end decorative design. We develop curved panels basing on groove acoustic panel and perforated acoustic panel. Its groove and perforation structure is accordance with acoustic principle, have high sound absorbing performance in low and middle frequency. The structure of curved surface has some diffusion function and improve reverberation time obviously. The curved panel promotes the sound saturation and stereo feeling. Moreover, the various finish and curved shape not only give diversified choice for customer, but also enhance ceiling decoration three-dimensional extent and fluency.

## SPECIFICATIONS

| | |
|---|---|
| Name | Curved Acoustic Panel |
| Base Materials | Standard/Fire-resistant/other customized |
| Finish | Veneer/Melamine/other customized |
| Back | Groove/Perforated |
| Model | Refer to groove acoustic panel and perforated panel model |
| Size | W 600/1200mm*L 600/1200/2400mm*T 12/15/18mm or other customized model |





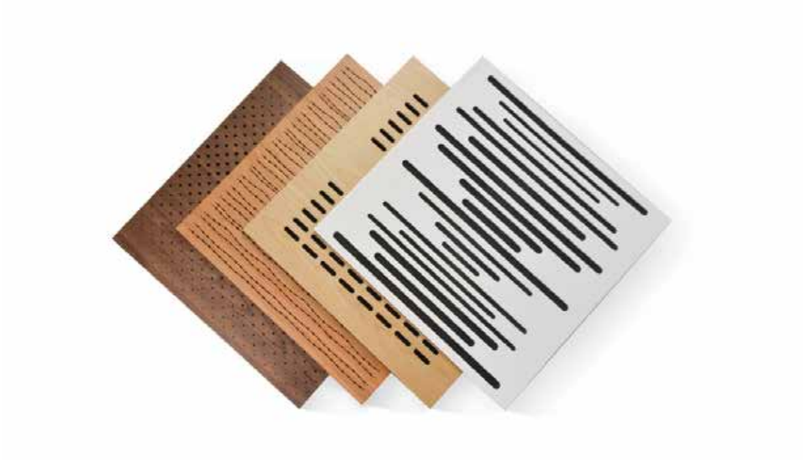








# ART ACOUSTIC PANEL



## PRODUCT INTRODUCTION

As society developing, the request of customer become more and more precise and exquisite. Art acoustic panel has art shape, unique and natural design, original natural wood finish, environmental and safety materials, high sound absorbing performance. All the features attract many customers and designers to choose it.

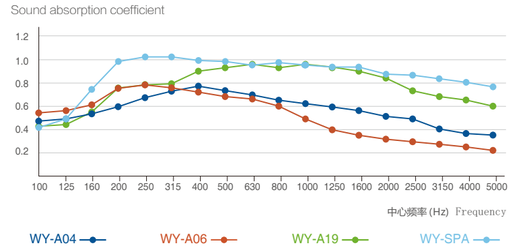
## APPLICATION

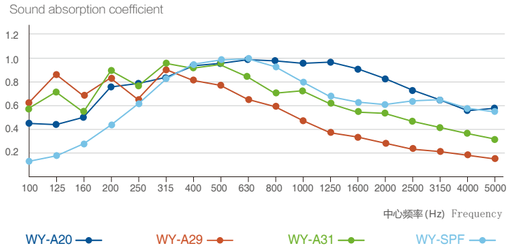
Office, Multifunctional hall, Conference room, Lecture hall, Art center, Opera house, Gymnasium, Hotel, Home theater and other places with high requirements for acoustics and artistic aesthetics.

## SPECIFICATIONS

| | |
|---|---|
| Name | Art Acoustic Panel |
| Base Materials | Standard MDF/Eco-friendly pine EO MDF/Black MDF/other customized MDF |
| Finish | Veneer/Melamine/PU Painting |
| Back | Black fire-resistant Sound Absorbing fleece / Soundtex Sound Absorbing Fleece |
| Model | WY-A04/A20/A22/A29/A31/A32/A35/SPA/SPF |
| Size | W 600/1200 *L 600/1200/2400 *T 12/15mm, other customized |











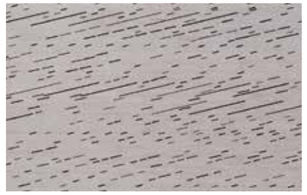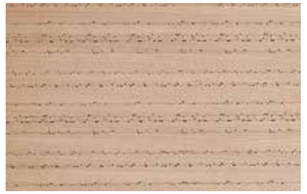





# MODEL


WY-A01

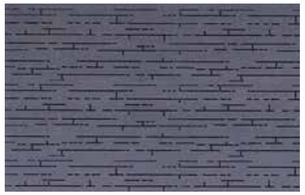

WY-A03


WY-A04


WY-A06


WY-A11


WY-A14

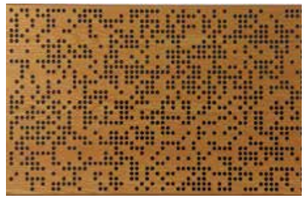

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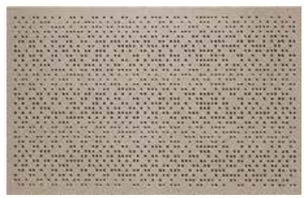

WY-A20

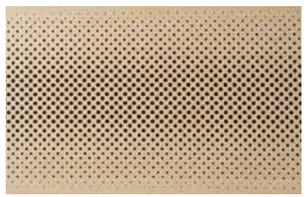

WY-A21


WY-A22

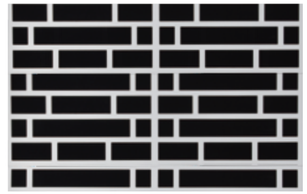

WY-A24

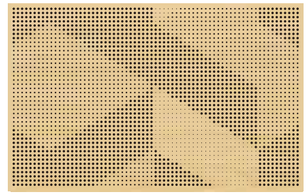

WY-A28

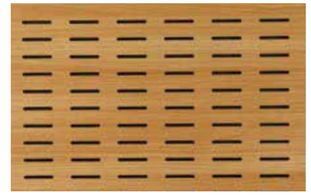

WY-A29

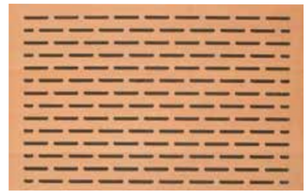

WY-A31


WY-A32


WY-A33
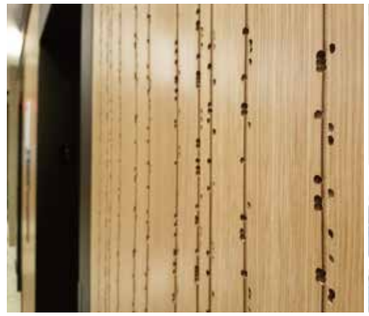

WY-A35


WY-SPA


WY-SPB


WY-SPD


WY-SPF













# SUSPENDED CEILING SYSTEM



Exposed Ceiling SC-E

Exposed T grid

The exposed ceiling system is easy to install, the appearance is fine, smooth and clean, and there is no need to do any processing. Each acoustic ceiling panels can be installed and disassembled independently.



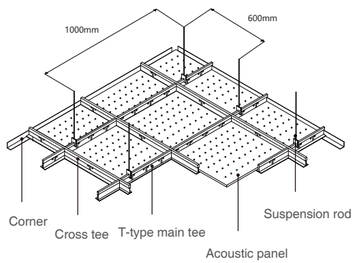




## SPECIFICATIONS

| | |
|---|---|
| Name | Exposed Ceiling System SC-E |
| Applicable Product | Perforated Acoustic Panel PA Series/ Art Acoustic Panel AA Series |
| Base Material | Black HDF/Fire-resistant HDF/A Grade MGO Rock Board |
| Panel Finish | Veneer/Melamine/HPL Fire-proof |
| Panel Back | Black Fire-resistant Sound Absorbing Fleece / Soundtex Sound Absorbing Fleece |
| Size | W 595*L 595/1195*T 12mm |
| System Features | Easy to install, the appearance is fine, smooth and clean, and there is no need to do any processing |
| Application | Multi-function hall, Conference room, Office, Hotel, TV station, Piano room or places with strict acoustic requirements in home |

## INSTALL METHOD






1. L hanger fixed with suspension rod and T-type main tee, then clip in cross tee and fix corner.

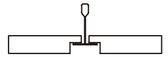


2. Installation of exposed ceiling.



3. Installation completion effect and details.





Tegular Ceiling SC-T

Tengular T grid

The tegular ceiling system can increase the layering, and the four sides of the acoustic ceiling panels are processed. The T- keel is trapped between the boards, creating a different visual effect with beautiful lines. Each acoustic ceiling panels can be installed and disassembled independently.



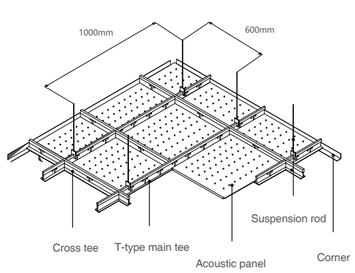




## SPECIFICATIONS

| | |
|---|---|
| Name | Tegular Ceiling System SC-T |
| Applicable Product | Perforated Acoustic Panel PA Series/ Art Acoustic Panel AA Series |
| Base Material | Black HDF/Fire-resistant HDF |
| Panel Finish | Veneer/Melamine |
| Panel Back | Black Fire-resistant Sound Absorbing Fleece / Soundtex Sound Absorbing Fleece |
| Size | W 595*L 595/1195*T 12mm |
| System Features | Visible keel concave seam, convenient installation, corner and finish The same color, good installation effect |
| Application | Multi-function hall, Conference room, Office, Hotel, TV station, Piano room or places with strict acoustic requirements in home |

## INSTALL METHOD






1. L hanger fixed with suspension rod and T-type main tee, then clip in cross tee and fix corner.



2. Installation of tegular ceiling.



3. Installation completion effect and details.



Concealed Ceiling SC-C

Concealed T grid

The concealed ceiling system is novel in design, the four sides of the acoustic ceiling panels are finely treated, the joint between the panels has a small chamfer, and the keel is invisible, which forms the overall visual effect and gives people a comfortable feeling. The ceiling keel is easy to install and disassemble.



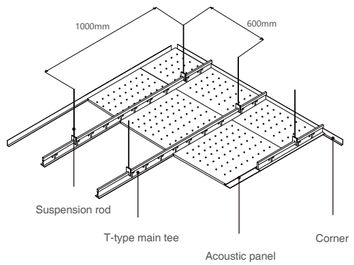




## SPECIFICATIONS

| | |
|---|---|
| Name | Concealed Ceiling System SC-C |
| Applicable Product | Perforated Acoustic Panel PA Series/ Art Acoustic Panel AA Series |
| Base Material | Black HDF/Fire-resistant HDF |
| Panel Finish | Veneer/Melamine |
| Panel Back | Black Fire-resistant Sound Absorbing Fleece / Soundtex Sound Absorbing Fleece |
| Size | W 600*L 607*T 12mm |
| System Features | The concealed CS-C keel is invisible, the flat-fell seam between the boards is chamfered, the installation is convenient, the corners are the same color as the finish, and the installation effect is good |
| Application | Multi-function hall, Conference room, Office, Hotel, TV station, Piano room or places with strict acoustic requirements in home |

## INSTALL METHOD






1. L hanger fixed with suspension rodand T-type main tee, then fix corner.



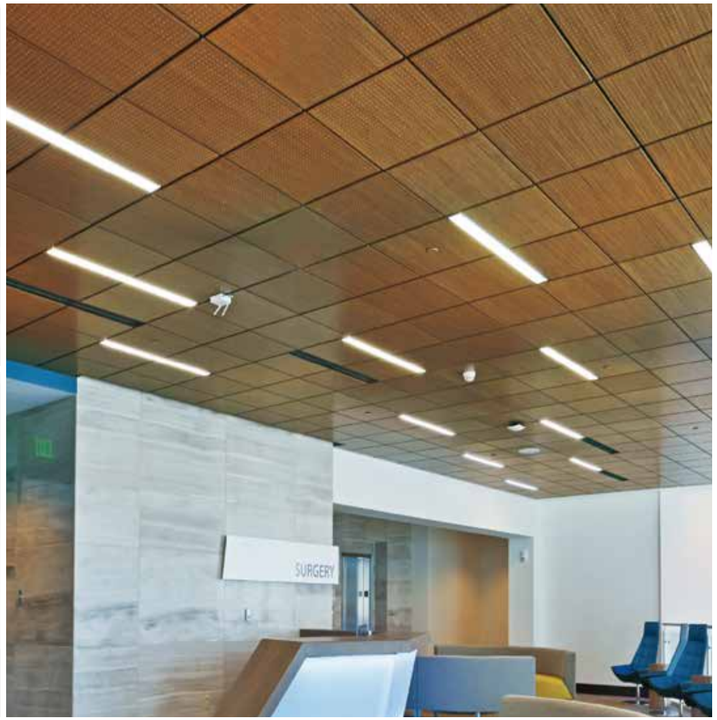
2. Installation of concealed ceiling.



3. Installation completion effect and details.







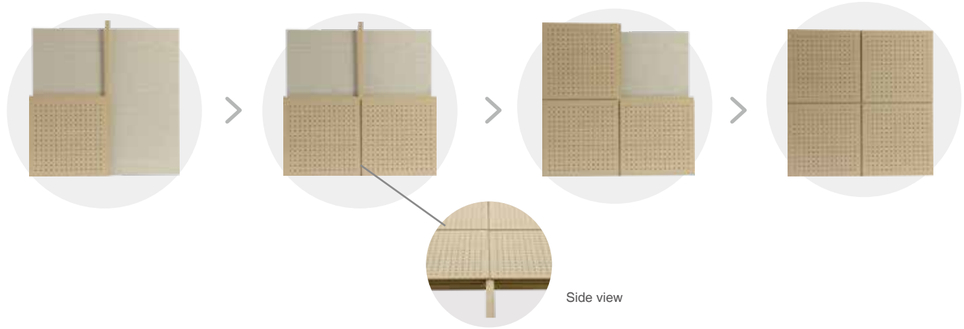







# WALL INSTALLATION SYSTEM

## WOOD SLAT INSTALL METHOD




**01**

First install the wooden batten according to the design requirements and level it, install the acoustic panel on the wooden batten with gun nails, and insert the wooden slat into the sidegroove

**02**

Align the side groove of the second acoustic panel with the wooden slat, and install and fix it with gun nails

**03**

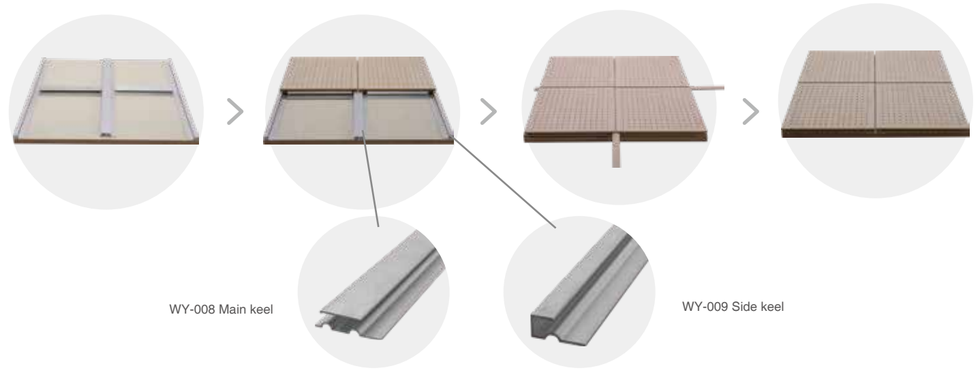
Align the side groove of the third acoustic panel with the wooden slat, and install and fix it with gun nails

**04**

Repeat until the installation is completed, the joints between the panels are generally recommended to be 3-5mm, and the nailing position is on the side of the panel



## KEEL SYSTEMS INSTALLATION METHOD




**01**

Fix side keel WY-009 on the wood battens and light steel keel with gunnail and screws

**02**

Fix the WY-008 main keel at the two ends of installation area. It is recommended to keep 3-5mm gap during installation

**03**

Move the side groove along WY-008 and WY-009 direction from left to right and bottom to top

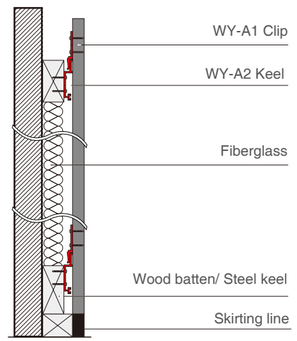
**04**

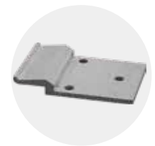
For solid wood and natural veneer, if the wood grain pattern is required, it must be numbered in advance and installed following numbers

## HANGING KEEL SYSTEM INSTALLATION

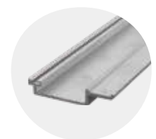


WY-A2 Hanging installation sketch



WY-A1 Clip



WY-A2 Keel

# BASE MATERIALS

## MDF SERIES



Standard MDF



Pine eco-friendly MDF



Red fire-resistant MDF



Black HDF



Green moisture-proof MDF

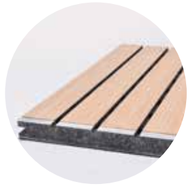
## MGO COMPOSITE FIRE-RESISTANT SERIES



A grade MGO board



A grade MGO rock board



A grade Alu & MGO composite board

## NON-FORMALDEHYDE SERIES



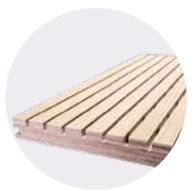
Carbonized bamboo board



Oak solid wood



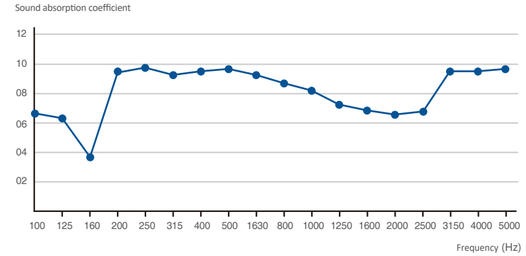
Pine solid wood



Multi-layer solid wood



# WOOD WOOL ACOUSTIC PANEL










## PRODUCT INTRODUCTION

Wood wool acoustic panel is made of quality pine and fir logs, dried by air no less than three months to wood fiber, integrated with unique inorganic concrete bond, cranked out under high temperature and pressure finally. It has perfect acoustic performance as well as thermal retentivity, no matter with painting or just original color, the final decorative effect is especially outstanding. This product could be used for all indoor decoration and mostof outdoor decoration. Wood wool acoustic panel has very unique characters and effects compared to other acoustical material, besides meeting your requrement in sound absorption and sound insulation.

Wood wool acoustic panel has unique and elegant texture which could fully embody designer's idea and creativity. It combines the advantages of both wood and concrete together: as light as wood, as firm as concrete, and has lots of characters such as sound absorption, fireproof, impact resistant, mildewproof and moistureproof, theater, cinema, meeting room, church, factory, school, library, natatorium,  can be widely used in gym, etc.

## FEATURES

Wood wool acoustic panel is made of natural wood fiber, integrated with unique inorganic concrete bond, cranked out under hightemperature and pressure finally. It has perfect physical characters which can only get from combination of different building materials and unique appearance,excellent sound absorption character. The special appearance texture gives you a natural feeling which meet the idea that back to nature.

## SPECIFICATIONS

| | |
|---|---|
| Name | Wood Wool Acoustic Panel |
| Structure | Base Material, Finish |
| Base Material | Wood Fiber/Inorganic Cement |
| Model | Fine/Super Fine |
| Finish | Natural Color/Painting Color |
| Size | W 600/1200mm*L 600/1200/2400mm*T 15/20/25mm or other customized |

## SPECIFIC FEATURES

Sound Absorption and Sound Insulation: Wood wool acoustic panel's noise reduction coefficient is between 0.8 and 0.95 tested by authoritative organization.

Thermal Insulation: since the main material is wood fiber which is a poor conductor of heat, the wood wool acoustic panel has a very small thermal conductivity.

Anti-microbial and Moisture proof: appearance of wood fiber is protected by cement and mineralized which is not conductive to insects, mites, termites and other habitats and mold away.

Fire Resistance: wood wool acoustic panel is fire-resistance materials. The greater capacity, the better fire resistance. Fireproof as B1 Grade and A2 Grade.

Green Environment-friendly: Wood wool acoustic panel is made of pine and fir logs, and processed by sustainable raw materials. Formaldehyde affranchise reach E1Grade, thermal insulation up to 70%.

Rigidity: high impact resistance, Passed the national authoratative drop weight impact test testing, will never break under impact of football, basketball or volleyball in Olympic Sports Center Gymnasium.

Durability: high-strength materials against externalcontamination, achieved the longevity as the life of buildings to reduce maintenance costs.

Easy to install: easy to cut and shaped with standard woodworking tools.









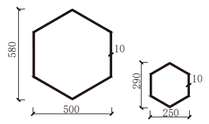
# ART WOOD WOOL ACOUSTIC PANEL

## PRODUCT INTRODUCTION

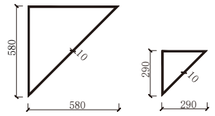
While solving the acoustic problems of indoor spaces, wood wool art acoustic panel also provide inspiration for designers to create a sense of fashion design in the space, and are increasingly used in various commercial spaces.

## SPECIFICATIONS

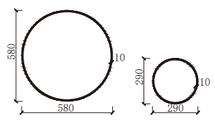
| | |
|---|---|
| Name | Art Wood Wool Acoustic Panel |
| Structure | Base Materials, Finish |
| Base Material | Wood Fiber / Inorganic Cement |
| Model | WWA-H/T/C/S/R/Re/St |
| Finish | Natural Color/PU Painting Color |
| Size | Refer to photo dimension |
| Application | Office, Conference hall, Hotel, School, Shopping center |



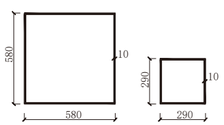

**WWA-H**
Hexagon



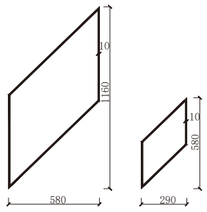

**WWA-T**
Triangle



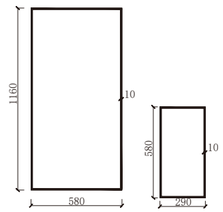

**WWA-C**
Circle



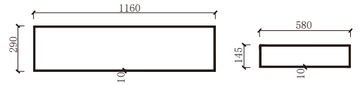

**WWA-S**
Square




**WWA-R**
Rhombus




**WWA-Re**
Rectangle




**WWA-St**
Strip

# COLOR CHART

Almond yellow | Sunlight yellow | Oral orange | Khaki brown | Coffee brown | Gentleman blue | Dark blue

Ivory white | Moonlight grey | Meteorite grey | Bean green | Classic green | Algae green

Actual product color may vary from the reference images shown.Customized color accepted, refer to international standard RAL or PANTONE color chart or customer's color sample.








# FABRIC ACOUSTIC PANEL FA SERIES

## FABRIC ACOUSTIC PANEL FA25/FA50

Fabric acoustic panel is made of curing technology frame, custom-made high-strength alloy frame, filled with high density fiberglass acoustic wool, covering class A fire resistant glass fiber cloth or flame-retardant acoustic cloth. It is eco-friendly, good decoration, fireresistant, no-dusty, easy to install. The fabric acoustic panel is good materials and high sound absorption performance in middle and high frequency.



## FEATURES

1. Full-frequency sound absorption, especially for midle and high frequency sound absorption. It has the characteristics of flame retardant and fire proof, no dust, strong decoration and simple installation.

2. Varies colors and patterns cloth are available. Customers can also provide own cloths. In addition, the materials of finishes and frames can be adjusted according to the requirements of the owner and construction party.

## APPLICATION

Multi-funcitional hall, Opera house, Conference room, Theater, Auditorium, Hotel,TV station, Concert hall, Piano room, Gymnasium, Villa, or home need high acoustic performance.

**SPECIFICATIONS**

| | |
|---|---|
| Name | Fabric Acoustic Panel FA25/50 |
| Structure | Base Materials, Finish, Frame |
| Base Material | Standard Acoustic Wool |
| Finish | Class A Fire Resistant Glass Fiber Cloth/ Flame-retardant Acoustic Cloth |
| Border | Eco Glue Resin Frame / Custom-made High-strengthAlloy Frame |
| Edge | Square / Bevel |
| Size | W 600/1200mm*L 600/1200/2400mm*T 25/50mm |
| Fire Performance | Fire-resistant panels can reach class A under ASTM-E84 standard, Class 1 under BS476 part 7 standard |

# FORMALDEHYDE-FREE FABRIC ACOUSTIC PANEL FA32E/60E

## FEATURES

1. Full-frequency sound absorption, especially for middle and high frequency sound absorption;
2. Built-in 32mm white eco-friendly acoustic wool, which has zero formaldehyde and no dust, is healthy, safe, friendly to human body, strong hydrophobicity and longer service life;
3. Customizable high-strength alloy frame structure, with better fireproof, environmental protection, moisture-proof and deformation resistance;
4. You can choose fire-resistant acoustic cloth, A-grade fireproof glass fiber cloth, etc. for outsourcing, with various categories, colors and patterns. And we can also accept finish cloth provided by customers;
5. Fire-resistant, decorative and simple in construction. In addition, the materials of finishes and frames can be adjusted according to the requirements of the owner and the construction party.

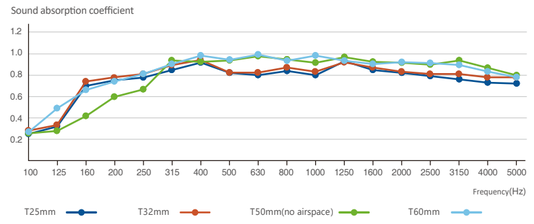


## APPLICATION

Conference room, Office, Class room, Cinema, Piano room, Recording room, Reading room, Gymnasium etc. small space need high acoustic performace or enclosed space.

**SPECIFICATIONS**

| | |
|---|---|
| Name | Formaldehyde-free Fabric Acoustic Panel |
| Model | FA32E/60E |
| Structure | Base Materials, Finish, Frame |
| Base Material | White Eco-friendly Acoustic Wool |
| Finish | Flame-retardant Acoustic Cloth/Class A Fire Resistant Glass Fiber Cloth |
| Frame | Eco Glue Resin Frame / Custom-made High-strengthAlloy Frame |
| Edge | Square / Bevel |
| Size | W 600/1200mm*L 600/1200/2400mm*T 32/60mm |
| Fire Performance | Class A under ASTM-E84 standard, Class 1 under BS476 part 7 standard |
| Eco Performance | No Formaldehyde |




Fabric acoustic panel T25mm

| Frequency | 100 | 125 | 160 | 200 | 250 | 315 | 400 | 500 | 630 | 800 | 1000 | 1250 | 1600 | 2000 | 2500 | 3150 | 4000 | 5000 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sound absorption coefficient | 0.25 | 0.32 | 0.70 | 0.75 | 0.78 | 0.85 | 0.92 | 0.82 | 0.80 | 0.84 | 0.80 | 0.93 | 0.85 | 0.82 | 0.79 | 0.76 | 0.73 | 0.72 |

Fabric acoustic panel T32mm

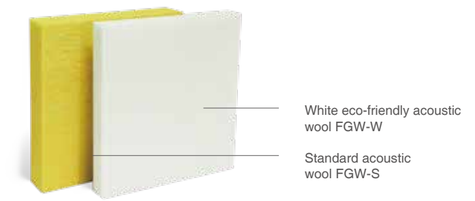
| Frequency | 100 | 125 | 160 | 200 | 250 | 315 | 400 | 500 | 630 | 800 | 1000 | 1250 | 1600 | 2000 | 2500 | 3150 | 4000 | 5000 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sound absorption coefficient | 0.28 | 0.33 | 0.74 | 0.78 | 0.81 | 0.89 | 0.94 | 0.82 | 0.82 | 0.87 | 0.83 | 0.92 | 0.87 | 0.83 | 0.81 | 0.81 | 0.78 | 0.78 |

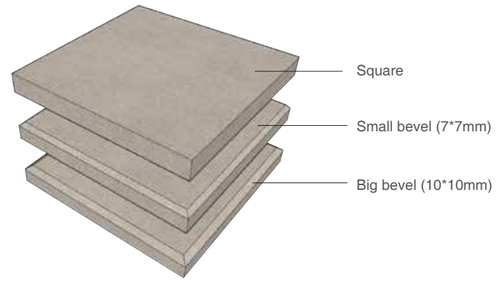
Fabric acoustic panel T50mm (no back cavity)

| Frequency | 100 | 125 | 160 | 200 | 250 | 315 | 400 | 500 | 630 | 800 | 1000 | 1250 | 1600 | 2000 | 2500 | 3150 | 4000 | 5000 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sound absorption coefficient | 0.25 | 0.27 | 0.41 | 0.59 | 0.66 | 0.93 | 0.92 | 0.93 | 0.97 | 0.94 | 0.91 | 0.96 | 0.92 | 0.91 | 0.89 | 0.93 | 0.86 | 0.79 |

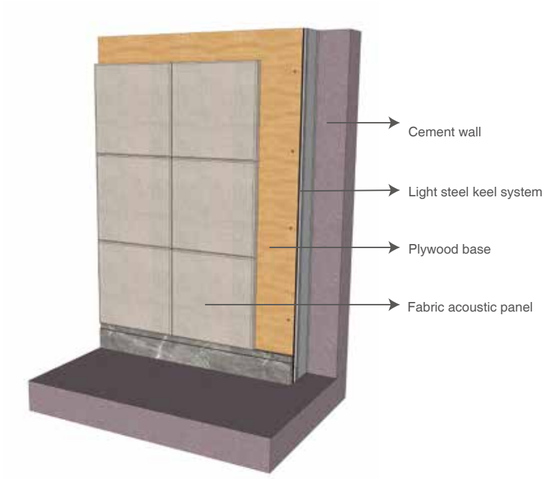
Fabric acoustic panel T60mm

| Frequency | 100 | 125 | 160 | 200 | 250 | 315 | 400 | 500 | 630 | 800 | 1000 | 1250 | 1600 | 2000 | 2500 | 3150 | 4000 | 5000 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sound absorption coefficient | 0.27 | 0.49 | 0.66 | 0.74 | 0.81 | 0.90 | 0.98 | 0.94 | 0.99 | 0.93 | 0.98 | 0.93 | 0.90 | 0.92 | 0.91 | 0.89 | 0.83 | 0.78 |

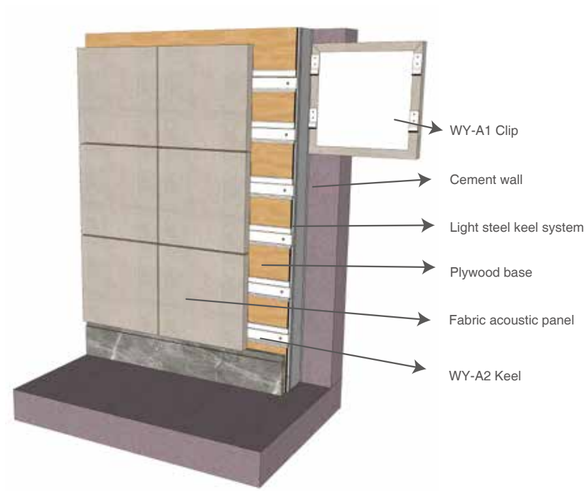



## Nail-free glue fixed




## Clip hanging installation











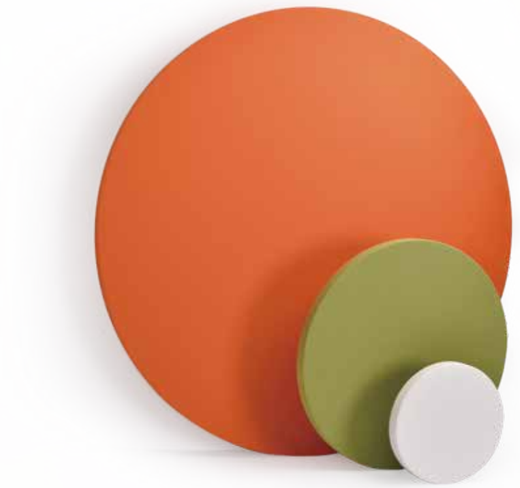








# ART FABRIC ACOUSTIC PANEL AFA SERIES



## PRODUCT INTRODUCTION

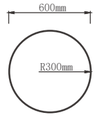
Art fabric acoustic panel is a kind of eco-friendly high-density fiberglass acoustic wool as the main material, the surface is compounded with eco-friendly airtight sound absorbing fleece, out-wrapped with flame-retardant acoustic cloth or class A fire-retardant fiberglass cloth, with various shapes and colors for ceilings or for wall material, which not only meets the needs of acoustics, but also realizes the agility and design sense of the space, which is deeply loved by the majority of designers.

## SPECIFICATIONS

| | |
|---|---|
| Name | Art Fabric Acoustic Panel |
| Structure | Base Materials, Finish, Frame |
| Base Material | White Eco-friendly Acoustic Wool/Standard Acoustic Wool |
| Finish | Class A Fire Resistant Glass Fiber Cloth/ Flame-retardant Acoustic Cloth |
| Frame | Resin Frame |
| Model | AFA25/AFA50（Standard Acoustic Panel）AFA32E/AFA60E（White Eco- friendly Acoustic Panel） |
| Size | According to customized graphics specifications |
| Eco Performance | E1/E0 |
| Fire Performance | Fire-resistant panels can reach class A under ASTM-E84 standard, Class 1 under BS476 part 7 standard |

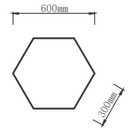
## PRODUCT STRUCTURE

T: 25/32/50/60mm
Accept any customized from customers graphics



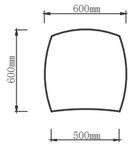

**AFA-01** Circle

Diameter: 300/600/800/1000/ 1200mm or other customized

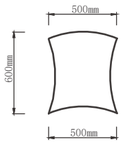



**AFA-02** Hexagon

Side length can be customized



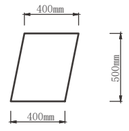

**AFA-03**
Convex



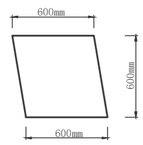

**AFA-04**
Concave




**AFA-05**
Trapezoid




**AFA-06**
Right parallelogram




**AFA-07**
Left parallelogram























# SUSPEND SOUND ABSORBER SA SERIES



## SUSPEND SOUND ABSORBER SA

These places, such as gymnasium and dancing hall will use suspended sound absorber for architectural acoustic design and keeping architectural style.
Suspended sound absorber is a kind of high sound absorbing performance acoustic materials which hang in the top. It is always in vertical hanging and horizontal hanging.
The product has the characteristics of environmental protection, fire prevention, high sound absorption performance, flexible layout, convenient construction, etc which can effectively reduce indoor reverberation time and improve speech clarity.

**SA-A50**

| Frequency | 100 | 125 | 160 | 200 | 250 | 315 | 400 | 500 | 630 | 800 | 1000 | 1250 | 1600 | 2000 | 2500 | 3150 | 4000 | 5000 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sound absorption coefficient | 0.33 | 0.56 | 0.72 | 0.81 | 0.88 | 0.97 | 0.93 | 0.95 | 0.91 | 0.98 | 0.93 | 0.87 | 0.84 | 0.89 | 0.84 | 0.86 | 0.82 | 0.79 |

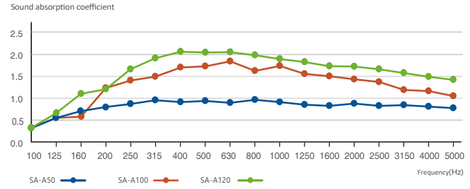
**SA-A100**

| Frequency | 100 | 125 | 160 | 200 | 250 | 315 | 400 | 500 | 630 | 800 | 1000 | 1250 | 1600 | 2000 | 2500 | 3150 | 4000 | 5000 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sound absorption coefficient | 0.33 | 0.55 | 0.58 | 1.23 | 1.40 | 1.49 | 1.70 | 1.72 | 1.84 | 1.62 | 1.73 | 1.55 | 1.50 | 1.43 | 1.37 | 1.19 | 1.16 | 1.05 |

**SA-A120**

| Frequency | 100 | 125 | 160 | 200 | 250 | 315 | 400 | 500 | 630 | 800 | 1000 | 1250 | 1600 | 2000 | 2500 | 3150 | 4000 | 5000 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sound absorption coefficient | 0.32 | 0.66 | 1.10 | 1.20 | 1.66 | 1.91 | 2.06 | 2.04 | 2.05 | 1.98 | 1.90 | 1.83 | 1.73 | 1.72 | 1.66 | 1.58 | 1.49 | 1.42 |

Sound absorption coefficient




## SPECIFICATION

| | |
|---|---|
| Name | Suspended Sound Absorber |
| Structure | Customized high-strength alloy frame, filled with full-frequency standard acoustic wool, the surface of the cotton is compounded with environmentally-friendly airtight sound-absorbing felt, covering class A fire resistant glass fiber cloth or flame-retardant acoustic cloth |
| Base Material | 80kg/m³ Standard Acoustic Wool or other density |
| Finish | Class A Fire Resistant Glass Fiber Cloth/Flame-retardant Acoustic Cloth |
| Frame | Customized High-strength Alloy Frame or other customized |
| Model | SA-A50/ SA-A100/SA-A120(Metal Frame Outside) SA-B50/ SA-B100(Metal Frame Inside) |
| Weight | 5.6kg/㎡(T 50mm) 11.6kg/㎡ (T 100mm)13.5kg/㎡ (T 120mm) |
| Size | W 600mm*L 600/1200/2400mm*T 50/100/120mm and other customized |
| Fire Performance | Fire-resistant panels can reach Class A under ASTME-84 standard, Class 1 under BS476 part 7 standard |
| Eco Performance | According to the technical requirements of GB/T 35608-2017, the formaldehyde emission is less than 0.01mg/m³ (climate chamber method), which is safe and environmentally friendly |
| Application | All kinds of stadiums, exhibition centers, factory buildings, performance halls, multi-functional conference halls, waiting rooms and other places that need strong sound absorption |
| Installation Method | Horizontal Hanging/Vertical Hanging |



# SUSPEND SOUND ABSORBER SA-A50E/100E



## FEATURES

1. Full-frequency sound absorption, especially for middle and high frequency sound absorption., suitable for large-scale functional places such as gymnasiums and performance halls;
2. Built-in 50mm white eco-friendly acoustic wool, which has zero formaldehyde and no dust, is healthy, safe, friendly to human body, better environmental protection effect;
3. The hydrophobic rate of the white eco-friendly acoustic wool has strong hydrophobicity, stronger resistance to water vapor and longer service life.

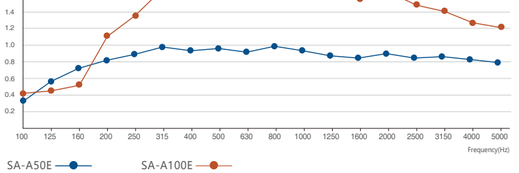
**SA-A50E**

| Frequency | 100 | 125 | 160 | 200 | 250 | 315 | 400 | 500 | 630 | 800 | 1000 | 1250 | 1600 | 2000 | 2500 | 3150 | 4000 | 5000 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sound absorption coefficient | 0.33 | 0.56 | 0.72 | 0.81 | 0.88 | 0.97 | 0.93 | 0.95 | 0.91 | 0.98 | 0.93 | 0.87 | 0.84 | 0.89 | 0.84 | 0.86 | 0.82 | 0.79 |

**SA-A100E**

| Frequency | 100 | 125 | 160 | 200 | 250 | 315 | 400 | 500 | 630 | 800 | 1000 | 1250 | 1600 | 2000 | 2500 | 3150 | 4000 | 5000 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sound absorption coefficient | 0.42 | 0.45 | 0.52 | 1.11 | 1.36 | 1.69 | 1.90 | 1.98 | 1.92 | 1.91 | 1.87 | 1.84 | 1.56 | 1.65 | 1.49 | 1.41 | 1.27 | 1.22 |

Sound absorption coefficient




## SPECIFICATION

| | |
|---|---|
| Name | Suspended Sound Absorber |
| Model | SA-A50E/A100E |
| Structure | Custom-made high-strength alloy frame, fill-in white eco-friendly acoustic wool, the surface of the cotton is compounded with environmental protection closed sound-absorbing felt, and the surface layer is wrapped with A grade fire- resistant glass fiber cloth or resistant acoustic cloth |
| Base Material | 48kg/m³ White Eco-friendly Acoustic Wool (other density can also be customized according to requirements) |
| Finish | A Grade Fire-resistant Glass Fiber Cloth/ Fire-resistant Acoustic Cloth |
| Frame | Custom-made High-strength Alloy Frame (or othe8r customized frames) |
| Size | W 600mm*L 600/1200/2400mm*T 50/100mm and other customized |
| Fire Performance | Class A under ASTME-84 standard, Class 1 under BS476 part 7 standard |
| Eco Performance | E0 |
| Application | All kinds of stadiums (swimming pools, etc.), exhibition centers, performance halls, multi-functional conference halls, offices, classrooms, bars and restaurants and other places that need strong sound absorption and high environmental protection |
| Installation Method | Horizontal Hanging/Vertical Hanging |

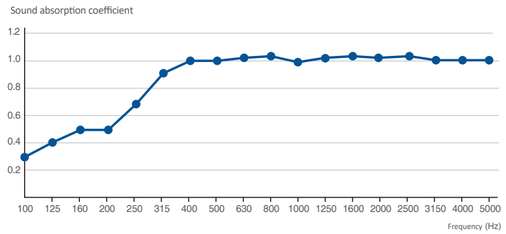
# FIBERGLASS ACOUSTIC WOOL FGW SERIES





## STANDARD ACOUSTIC WOOL FGW-S

Standard acoustic wool FGW-S is made of natural ore as the main raw material, and some chemical raw materials are blended into glass. In the melted state, the centrifugal blowing process is used to blow into flocculent fine fibers, which cross and intertwine with each other, showing many tiny gaps. The fibers are fluffy and interlaced, and there are a lot of tiny pores, which is a typical porous sound-absorbing material. Acoustic wool can be made into wallboard, ceiling, space absorber, etc., which can absorb a large amount of sound energy in the room, reduce reverberation time and indoor noise. When there is an air layer behind the glass wool, the sound absorption effect of glass wool board with the same thickness without air layer is similar. Especially, the sound absorption performance of medium and low frequencies will be greatly improved compared with that of hard board, and the sound absorption coefficient will increase with the increase of air layer thickness.




## SPECIFICATIONS

| | |
|---|---|
| Name | Standard Acoustic Wool FGW-S |
| Density | 32kg/m³ or 48kg/m³ |
| Size | W 600mm*L 1200mm*T 25/50mm or other customized |
| Fire Performance | Class A under ASTM-E84 standard Class 1 under BS476 part 7 standard |
| Features | Thermal insulation, heat preservation, sound absorption and noise reduction |
| Application | Sound absorption cavity filling |



## WHITE ECO ACOUSTIC WOOL FGW-W

The white eco acoustic wool FGW-W is made of better quality glass. The fiber is thinner and longer inside, evenly distributed, tightly bonded, free of slag balls, delicate in surface texture, stable in structure and strong in tensile strength. Tested by authoritative organization, the product is environmentally



## PRODUCT FEATURES

1. The surface fiber is delicate, stable structure, no dust;
2. Hydrophobic rate> 98%, resist the ability of water vapor;
3. Environmental, health and safety, formaldehyde release less than 0.005 mg / m³.

## SPECIFICATIONS

| | |
|---|---|
| Name | White Eco Acoustic Wool FGW-W |
| Density | 32kg/m³ or 48kg/m³ |
| Size | W 600mm*L 1200mm*T 25/50mm or other customized |
| Fire Performance | Class A under ASTM-E84 standard Class 1 under BS476 part 7 standard |
| Features | No Formaldehyde, thermal insulation, heat preservation, sound absorption and noise reduction |
| Application | Sound absorption cavity filling |

# ECO ACOUSTIC WOOL EAC SERIES

## PRODUCT INTRODUCTION

Eco acoustic wool is made of PP long fiber and PET short fiber by melt blowing. The material is environment-friendly without additional additives, and can be directly contacted by human body, so it is suitable for families and some sound building places with high environmental requirements. There are a large number of tiny connected pores in the product, along which sound waves can penetrate deep into the material, and rub with the material to convert sound energy into heat energy, which has a good sound absorption effect on medium and high frequencies.



## PRODUCT FEATURES

It does not contain resin adhesive, and has excellent environmental protection performance. It is used in homes and some building places with high acoustic environmental protection requirements.

## SPECIFICATIONS

| | |
|---|---|
| Base Material | Eco Acoustic Wool |
| Size | W 500mm*L 1000mm*T 30mm or other customized |
| Per PC Weight | 250g |
| Areal Density | 500g/㎡ |
| Eco Performance | No formaldehyde emission, which meets the requirements of interior decoration and can be directly contacted with human body |
| Fire Performance | The fire-resistant performance meets the flame retardant requirements of GB8624-2012 B1 |
| Application | Sound absorption cavity filling |









# POLYESTER FIBER ACOUSTIC WOOL PFW SERIES



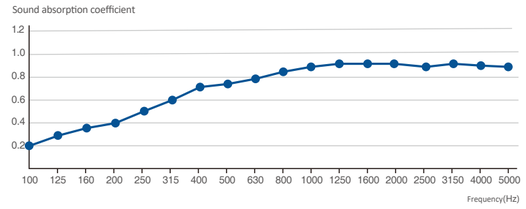
Felt



Board

## PRODUCT INTRODUCTION

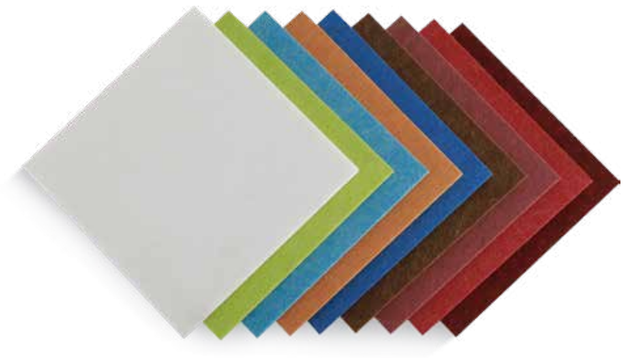
Polyester fiber acoustic wool is made of 100% polyester fiber. It is Environmental, fire-resistant, heat preservation, noise reduction, high sound absorption performance, easy to cut and install. More and more design like to use in building acoustic and industrial noise reduction project.




## SPECIFICATIONS

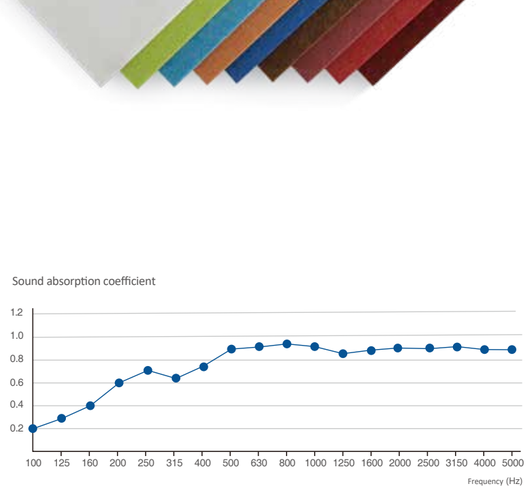
| | |
|---|---|
| Base Material | 100% Polyester Fiber |
| Model | Board, Felt |
| Density | 24-96kg/m³ |
| Size | Board: W 600/1200*L 1200/2400*T 20-100mm<br>Felt: W1200*L 20000/30000*T 10-50mm |
| Eco Performance | Reach to E1 |
| Fire Performance | Fire-resistant panels can reach class A under ASTM-E84 standard, Class 1 under BS476 part 7 standard |
| Application | Stuffing for sound absorption structure |

# POLYESTER FIBER ACOUSTIC PANEL PF SERIES



## PRODUCT INTRODUCTION

Polyester fiber acoustic panel is made of 100% polyester fiber, hot press to cotton shape. The holes rate is more than 90%. It has good sound absorption performance in middle and high frequency. The polyester fiber acoustic panel is high density, eco-friendly, fire-resistant, easy to install and cut, no dust various finish color and finish choices can satisfy all customer's acoustic and decorative requirement.




## APPLICATION

Hotel, Office, Hospital, Library, Cinema, Theater, Concert hall, Stadium Conference hall, Factory, Machine room, Machine room, Residential building, etc

## SPECIFICATIONS

| | |
|---|---|
| Base Material | 100% Polyester Fiber |
| Edge | Square, Bevel |
| Density | 150-229kg/m³（T 9mm1.35-2kg/㎡； T 12mm 2.3kg/㎡） |
| Finish | Refer to polyester color chart |
| Size | W 1220*L 2440*Ð/12mm or other customized |
| Tolerance | W ±1mm, L ±2mm, T ±0.2mm |













## INSTALLATION METHOD

1. Array

In the construction site, the polyester panel shall be arranged according to the design requirements of the drawings.

2. Cut

Mechanical or manual cutting, manual cutting using rigid ruler and utility knife.

3. Chamfer

Using professional chamfering tools, according to the needs of all kinds of chamfering.

4. Installation

The installation mainly uses universal adhesive, hot melt glue, structural adhesive, polyester fiber special adhesive, etc. Use different glue according to different bottom surface. Flat cement wall can be directly installed. Usually one side glue brushed. It can also be installed by slat fix.

# 3D POLYESTER FIBER ACOUSTIC PANEL PFA SERIES

## PRODUCT INTRODUCTION

A modular acoustic wall panel is designed to create a contemporary finish and add simple and effective acoustic control to any interior environment. Lightweight and semi-rigid, 3D shape opens the realms of acoustic design flexibility whilst reduces reverberated sound and controls background noise. 3D shape is completely safe and certified low VOC.

## APPLICATION

Hotel, Office, Hospital, Library, Cinema, Theater, Concert hall, Stadium, Conference hall, Meeting room, Station waiting hall, Residential building, etc.

## SPECIFICATIONS

| | |
|---|---|
| Base Material | 100% Polyester Fiber |
| Color | Refer to polyester color chart |
| Size | Refer to photo dimension |
| Model | PFA-3D01 to PFA-3D16 |



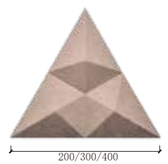




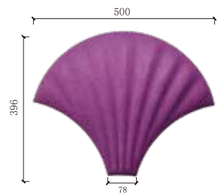



# MODEL

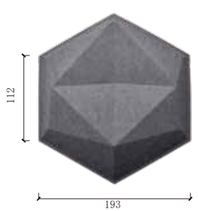

200/300/400
H：33/50/60mm
**PFA-3D01**


200/300/400
H：21/30/35mm
**PFA-3D02**

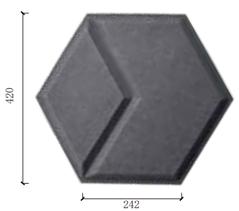

345
H：35mm
**PFA-3D03**



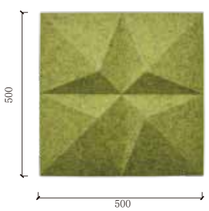
H：50mm
**PFA-3D04**



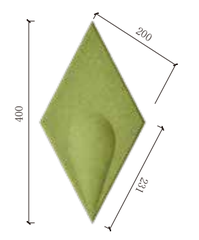
193
H：43mm
**PFA-3D05**



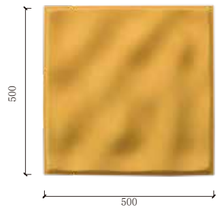
242
H：20mm
**PFA-3D06**



500
H：50mm
**PFA-3D07**



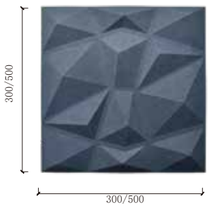
H：28mm
**PFA-3D08**



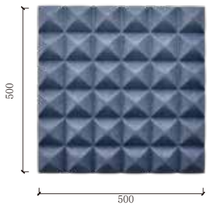
500
H：50mm
**PFA-3D09**



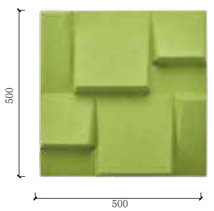
300/500
H：15mm
**PFA-3D10**



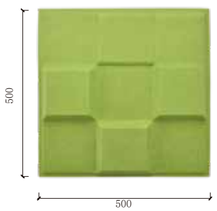
300/500
H：20mm
**PFA-3D11**



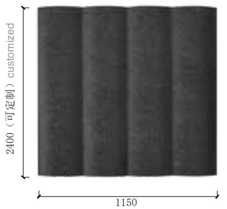
500
H：30mm
**PFA-3D12**



500
H：50mm
**PFA-3D13**



500
H：50mm
**PFA-3D14**



1150
H：8mm
**PFA-3D15**



H：55mm
**PFA-3D16**

# WOOD SLAT ACOUSTIC PANELS WSA SERIES

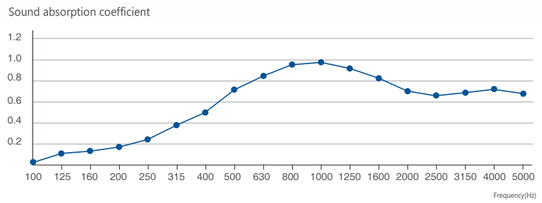


## PRODUCT INTRODUCTION

Sound consists of waves and when the sound hit a hard surface it continues to reflect back into the room, which creates reverberation. However, the wood slat acoustic panels breaks and absorbs the sound waves when it hits the felt and the slats. Hereby it prevent the sound from reflecting back into the room, which ultimately eliminates reverberation.

## APPLICATION

Improved acoustics for domestic and commercial applications, including in corridors, living rooms, bedrooms, kitchens and dining rooms and offices.




| Frequency | 100 | 125 | 160 | 200 | 250 | 315 | 400 | 500 | 630 | 800 | 1000 | 1250 | 1600 | 2000 | 2500 | 3150 | 4000 | 5000 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sound absorption coefficient | 0.04 | 0.10 | 0.13 | 0.17 | 0.26 | 0.37 | 0.50 | 0.75 | 0.84 | 0.95 | 0.97 | 0.92 | 0.83 | 0.70 | 0.65 | 0.67 | 0.73 | 0.66 |

## SPECIFICATIONS

| | |
|---|---|
| Base Material | Wood Slat Acoustic Panel |
| Thickness | Pine Eco-friendly MDF//Red Fire-resistant MDF/Black HDF/Solid Wood, etc. |
| Density | WSA27/13（Slat 27mm, Edge to Edge 13mm） |
| Color | Melamine/ Veneer |
| Size | W 600mm*L 2400mm*T 21mm |

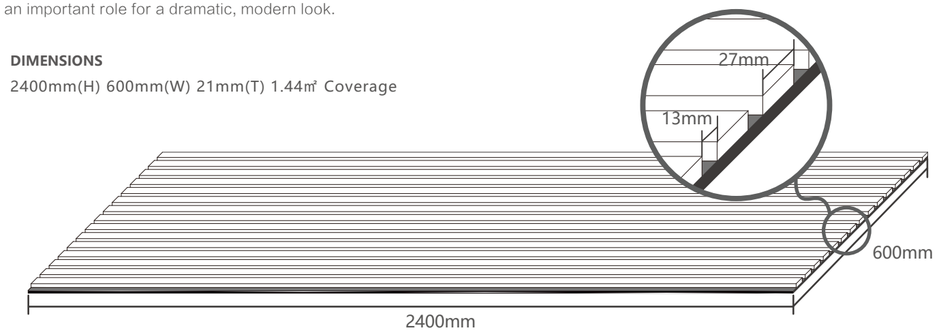


## PRODUCT DETAILS

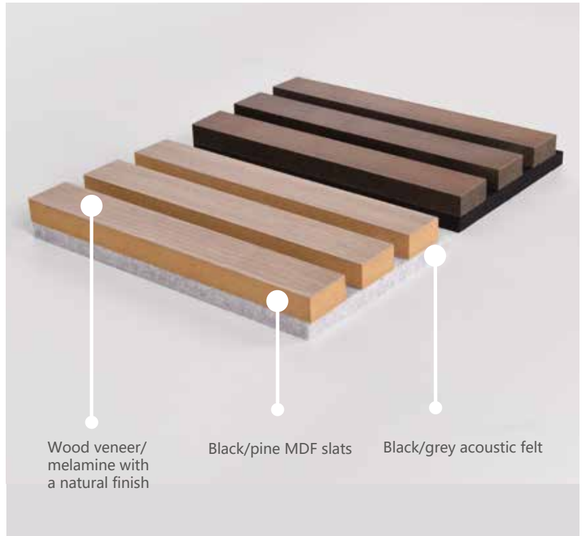
A wood slat acoustic panel is made of verticalstrips of wood MDF. Each strip is 27mm wide.The spaces between the slats is 13mm. Customized width and spaces is available, depending on the final look you're hoping to achieve. The black/gray color behind the slats plays an important role for a dramatic, modern look.

**DIMENSIONS**

2400mm(H) 600mm(W) 21mm(T) 1.44㎡ Coverage




## STRUCTURES

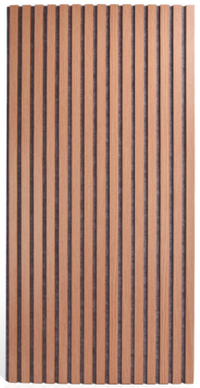








## Color



White Oak Straight Grain
**WY-NV01S**



WalnutC
**WY-EV18M**

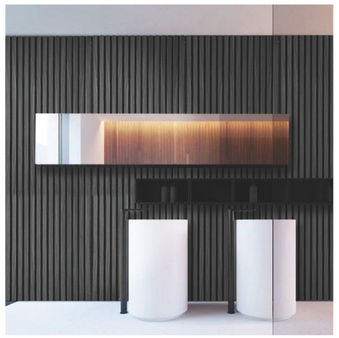


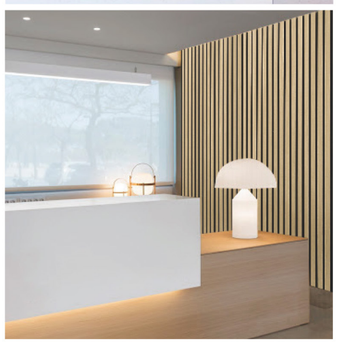
Elegant Walnut
**WY-10**



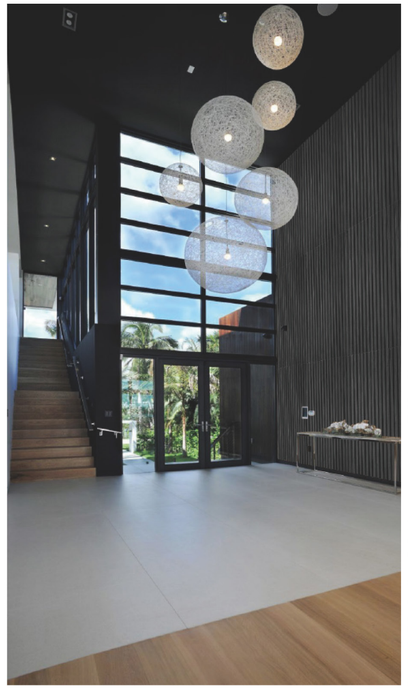
Solid Wood







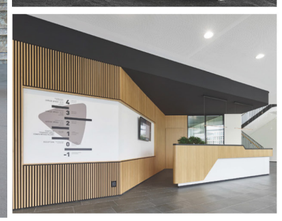












# FIBERGLASS ACOUSTIC CEILING PANEL FAP SERIES

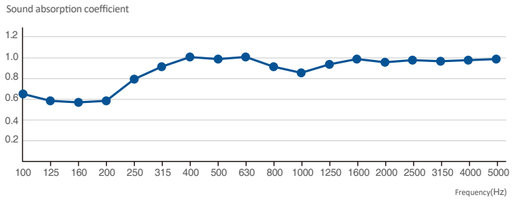


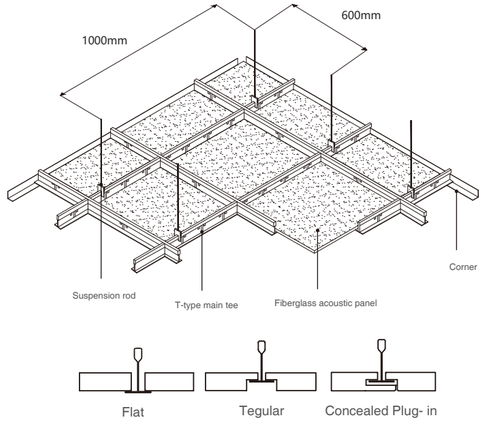
## PRODUCT INTRODUCTION

Fiberglass acoustic ceiling panel is made of high quality fiberglass acoustic wool. It uses white and decorative fiberglass tissue in the surface and white paint-coat or felt around, reinforced fiberglass tissue in the back. This product has stable structure, non-inflammable, no formaldehyde, high performance in sound absorption and good decorative effect.

## APPLICATION

Hotel, Office, Hospital, Library, Cinema, Theater, Concert hall, Stadium, Conference hall, Meeting room, Factory workshop, Machine room, Station waiting hall , Machine room, Residential building, etc.



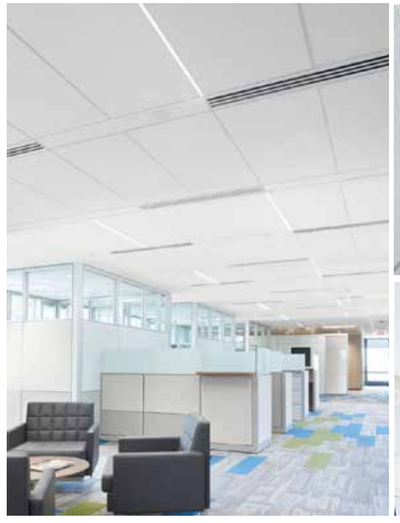




Fiberglass acoustic panel for ceiling installation

## SPECIFICATIONS

| | |
|---|---|
| Structure | Base Materials, Finish |
| Base Material | High Quality Fiberglass Acoustic Wool |
| Finish | White/Black/other color（Smooth /Dot Coating） |
| Back | Reinforced Fiberglass felt |
| Model | FAP-F（Flat） /FAP-T（Tegular） /FAP-C（Concealed Plug- in） |
| Size | W 600mm*L600/1200mm/*T 15/20/25mm （Hidden- Concealed plug- in distance min 20mm） |
| Eco Performance | No Formaldehyde |
| Fire Performance | Non-inflammable, Class A2, National Authority Under(GB8624-2012) |









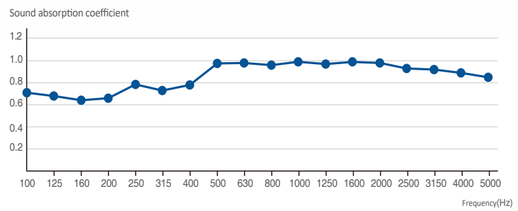


# ART FIBERGLASS
# SOUND ABSORBER AS SERIES



## PRODUCT INTRODUCTION

Art fiberglass sound absorber is a modern ceiling suspension decoration materials. It is made of high-quality fiberglass acoustic wool with ten shape and verify sizes and colors. It is very matched with the space with artistic design and shapes installed requirements. It meets the acoustic requirements, also realizes the agility and design sense of the space. You can install individually or in groups, creating your unique design.




## APPLICATION

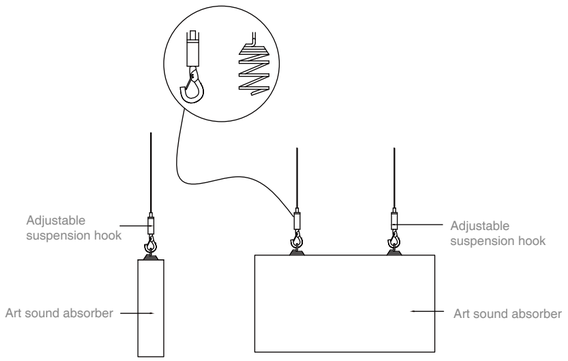
Hotels, Offices, Hospitals, Libraries, Cinemas, Theatres, Concert halls, Gymnasiums, Studios, Conference rooms, Station waiting rooms, Airports, etc.

## SPECIFICATIONS

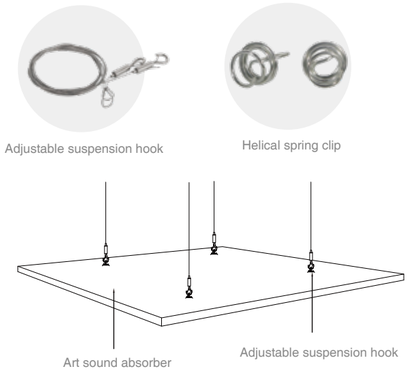
| | |
|---|---|
| Structure | Base Materials, Finish |
| Base Material | High Quality Fiberglass Acoustic Wool |
| Finish | Composite white or colors decorative surface, four edges: spray white or colors（Smooth /Dot Coating） |
| Model | AS-D01/D02/D03/D04/D05/D06/D07/D08/D09/D10 |
| Eco Performance | E1 |
| Fire Performance | Class A2 National Authority Under(GB8624-2012) |



# ART SOUND ABSORBER INSTALLATION METHOD

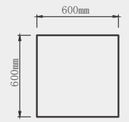



**Vertical suspension installation sketch**

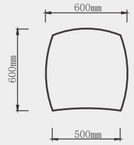



**Horizontal suspension installation sketch**

# ART SOUND ABSORBER




**AS-D01**
Square



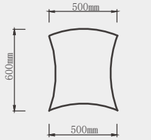

**AS-D02**
Convex




**AS-D03**
Trapezoid



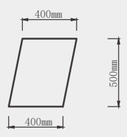

**AS-D04**
Hexagon



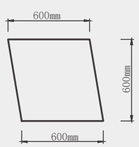

**AS-D05**
Concave



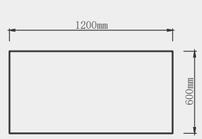

**AS-D06**
Circle



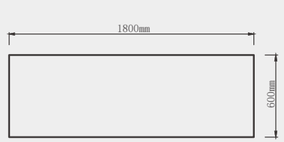

**AS-D07**
/Right parallelogram




**AS-D08**
Left parallelogram




**AS-D09**
Small rectangle




**AS-D10**
Large rectangle

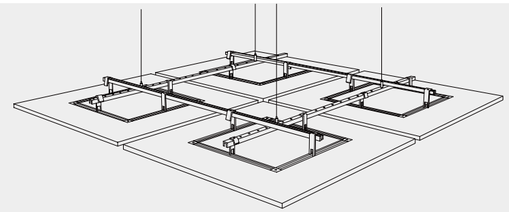
The thickness of the sound absorber in the above art space is 30 / 40 / 50mm

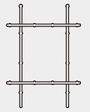
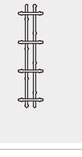
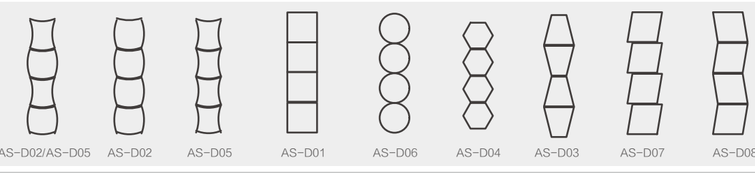
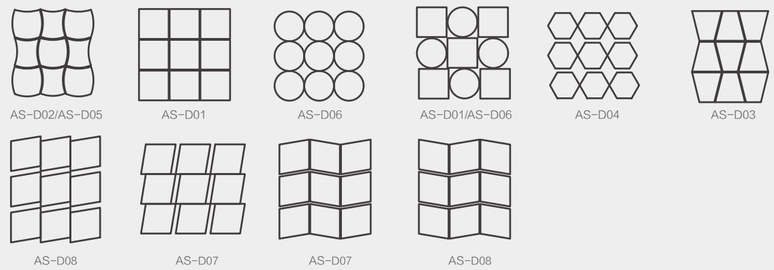
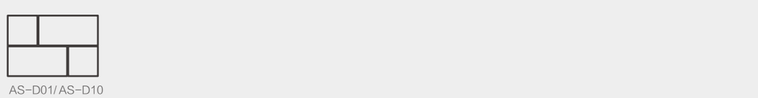
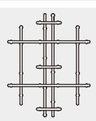
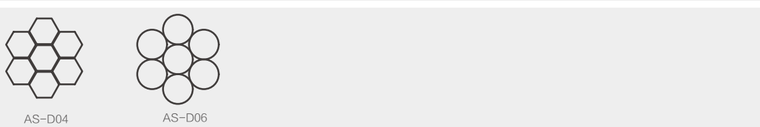
Customized shape is accepted



## ART SOUND ABSORBER COLLECTION

Keel suspended system



| Suspended keel | Collection |
|---|---|
|  |  AS-D01 AS-D02 AS-D03 AS-D04 AS-D05 AS-D06 AS-D07 AS-D08 |
|  |  AS-D02/AS-D05 AS-D02 AS-D05 AS-D01 AS-D06 AS-D04 AS-D03 AS-D07 AS-D08 |
|  |  AS-D02/AS-D05 AS-D01 AS-D06 AS-D01/AS-D06 AS-D04 AS-D03 AS-D08 AS-D07 AS-D07 AS-D08 |
|  |  AS-D01/ AS-D10 |
|  |  AS-D04 AS-D06 |







# WOODEN DIFFUSER ACOUSTIC PANEL

**DEFECT OF PLANE REFLECTION**

If a person listens to music in a rectangular hall with flat side walls, the sound he hears will be crisp, hard or harsh. This phenomenon is called frequency coloring effect.

**PRODUCT FEATURE**

Wooden diffuser is a anomalous plane design which can bring diffusion while refection. The sound is sonorous. And reverberation is from different direction to the audience. It can greatly improve the acoustic environment in the hall.

**PRINCIPLE OF DIFFUSION**

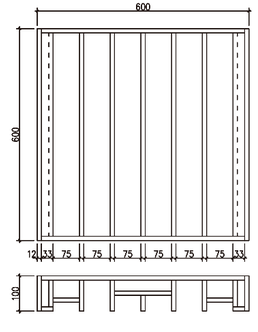
Acoustic diffusion series base on QRD diffusion principle. QRD diffusion is Quadratic residue theory. The diffusion boards are composed of steps of different depths based on calculations as per the quadratic residue theory. The Sound energy enters steps and then gradually release at different time. The result is that the peaks and valleys are smoother, forming a more balanced acoustic environment.

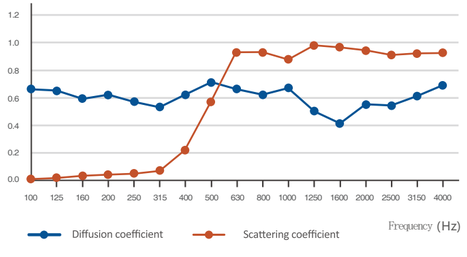
**APPLICATION**

Opera houses, Concert hall, Leisure club, Home theater, Recording studio, Hi-Fi listening room and other high-end indoor sound quality building, etc.



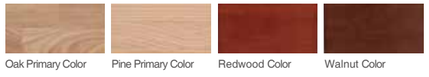





**WY-D1**

BURLYWOOD




SOLID COLOR



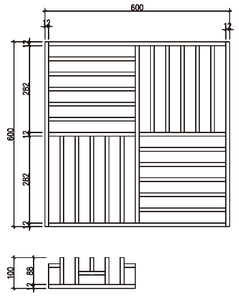

**SPECIFICATIONS**

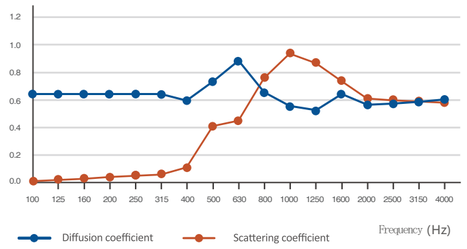
| | |
|---|---|
| Name | QRD Diffuser WY-D1 |
| Base Material | Rubber Solid Wood / Pine Wood / HDF |
| Finish | PU Painting / Veneer |
| Features | D1 diffuser scattered the incidence sound to avoid echo and stationary wave. It makes sound field uniform distribution and improves sound environment |
| Eco Performance | E1 |
| Size | W 600mm*L 600mm*T 100mm |










## WY-D2

BURLYWOOD



Oak Primary Color | Pine Primary Color | Redwood Color | Walnut Color

SOLID COLOR



Almond yello | Sunlight yellow | Oral orange | Khaki brown | Coffee brown | Gentleman blue | Dark blue

Ivory white | Moonlight grey | Meteorite grey | Bean green | Classic green | Algae green

### SPECIFICATIONS

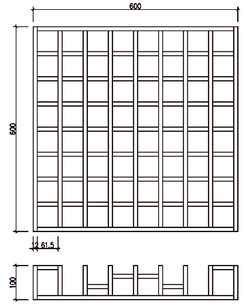
| | |
|---|---|
| Name | QRD Diffuser WY-D2 |
| Base Material | Rubber Solid Wood / Pine Wood / HDF |
| Finish | PU Painting / Veneer |
| Features | The diffuser diffuses sound energy in three dimensions, prevents echoes and standing waves, plays the role of omni-directional diffusion, and effectively improves the brightness and sense of space of sound |
| Eco Performance | E1 |
| Size | W 600mm*L 600mm*T 100mm |

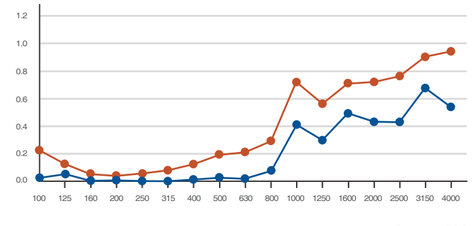











## WY-D3

BURLYWOOD



Oak Primary Color | Pine Primary Color | Redwood Color | Walnut Color

SOLID COLOR



Almond yello | Sunlight yellow | Oral orange | Khaki brown | Coffee brown | Gentleman blue | Dark blue

Ivory white | Moonlight grey | Meteorite grey | Bean green | Classic green | Algae green

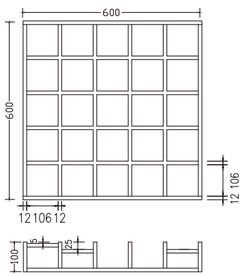
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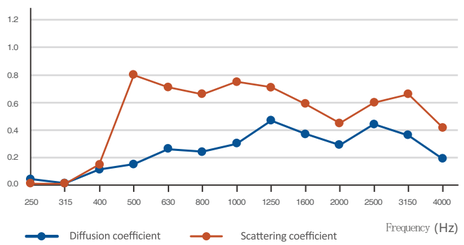
| | |
|---|---|
| Name | QRD Diffuser WY-D3 |
| Base Material | Rubber Solid Wood / Pine Wood / HDF |
| Finish | PU Painting / Veneer |
| Features | The positioning sequence grid calculated based on the QRD theoretical formula, its groove depth and width can produce uniform diffusion and reflection in a comprehensive and multi -angle incident sound, making the sound softer, effectively improving the fullness, richness and three -dimensional sense of sound |
| Eco Performance | E1 |
| Size | W 600mm*L 600mm*T 100mm |









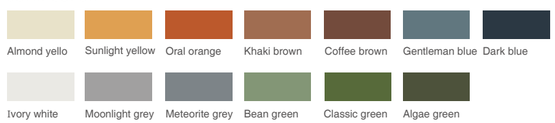

## WY-D3A

BURLYWOOD



Oak Primary Color | Pine Primary Color | Redwood Color | Walnut Color

SOLID COLOR



Almond yello | Sunlight yellow | Oral orange | Khaki brown | Coffee brown | Gentleman blue | Dark blue

Ivory white | Moonlight grey | Meteorite grey | Bean green | Classic green | Algae green

### SPECIFICATIONS

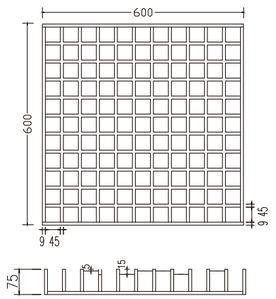
| | |
|---|---|
| Name | QRD Diffuser WY-D3A |
| Base Material | Rubber Solid Wood / Pine Wood / HDF |
| Finish | PU Painting / Veneer |
| Features | The positioning sequence grid calculated based on the QRD theoretical formula, its groove depth and width can produce uniform diffusion and reflection in a comprehensive and multi -angle incident sound, making the sound softer, effectively improving the fullness, richness and three -dimensional sense of sound |
| Eco Performance | E1 |
| Size | W 600mm*L 600mm*T 100mm |

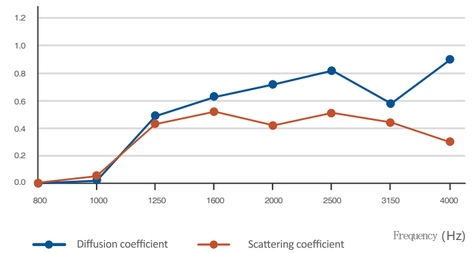











## WY-D3B

BURLYWOOD



Oak Primary Color | Pine Primary Color | Redwood Color | Walnut Color

SOLID COLOR



Almond yello | Sunlight yellow | Oral orange | Khaki brown | Coffee brown | Gentleman blue | Dark blue

Ivory white | Moonlight grey | Meteorite grey | Bean green | Classic green | Algae green

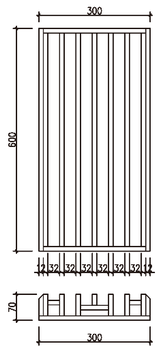
### SPECIFICATIONS

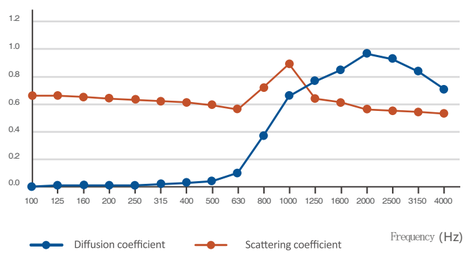
| | |
|---|---|
| Name | QRD Diffuser WY-D3B |
| Base Material | Rubber Solid Wood / Pine Wood / HDF |
| Finish | PU Painting / Melamine / Veneer |
| Features | The positioning sequence grid calculated based on the QRD theoretical formula, its groove depth and width can produce uniform diffusion and reflection in a comprehensive and multi -angle incident sound, making the sound softer, effectively improving the fullness, richness and three -dimensional sense of sound |
| Eco Performance | E1 |
| Size | W 600mm*L 600mm*T 75mm |





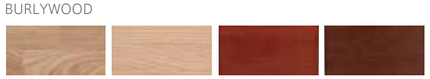




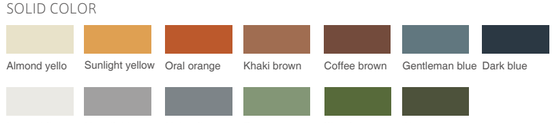

## WY-D4

BURLYWOOD



Oak Primary Color | Pine Primary Color | Redwood Color | Walnut Color

SOLID COLOR



Almond yello | Sunlight yellow | Oral orange | Khaki brown | Coffee brown | Gentleman blue | Dark blue

Ivory white | Moonlight grey | Meteorite grey | Bean green | Classic green | Algae green

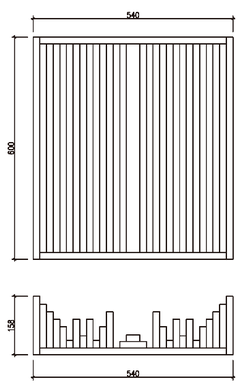
### SPECIFICATIONS

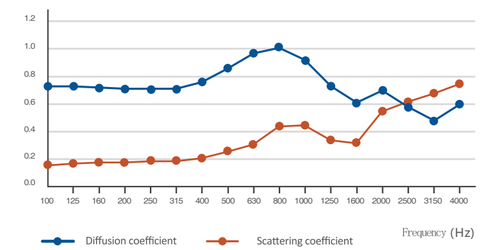
| | |
|---|---|
| Name | ORD Diffuser WY-D4 |
| Base Material | Rubber Solid/Pine Wood /HDF |
| Finish | PU Painting/Veneer |
| Features | With a significant diffusion effect, without improving the reverberation time, effectively improve the dryness of in the small space, effectively improve the fullness, sharpness and three -dimensional sense of environmental sound quality |
| Eco Performance | E1 |
| Regular Size | W 300* L 600/1200/1800/2400* T 70mm<br>Length can be customized |










## WY-D5

BURLYWOOD



Oak Primary Color | Pine Primary Color | Redwood Color | Walnut Color

SOLID COLOR



Almond yello | Sunlight yellow | Oral orange | Khaki brown | Coffee brown | Gentleman blue | Dark blue

Ivory white | Moonlight grey | Meteorite grey | Bean green | Classic green | Algae green

### SPECIFICATIONS

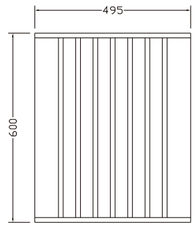
| | |
|---|---|
| Name | ORD Diffuser WY-D5 |
| Base Material | Rubber Solid/Pine Wood /HDF |
| Finish | PU Painting/Veneer |
| Features | D5 diffuser can restore sound space feeling and greatly improve sound quality in hall. It can raise sound environment clear, satiation and three-dimensional |
| Eco Performance | E1 |
| Size | W 540* L 600/1200/1800/2400* T 158mm Length can be customized |

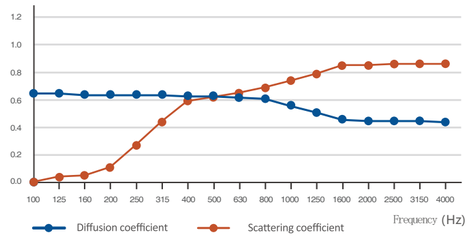


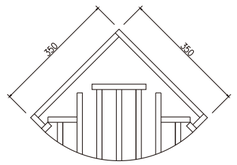


## WY-D6






BURLYWOOD




SOLID COLOR




### SPECIFICATIONS

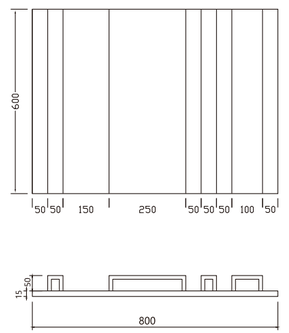
| | |
|---|---|
| Name | Bass Trap Diffuser WY-D6 |
| Base Material | Rubber Solid/Pine Wood /HDF |
| Finish | PU Painting/Veneer |
| Features | D6 diffuser is a good case for corner stationary wave solutions. It mixes low frequency sound absorption and diffusion together. D6 diffuser not only solve sound in corner, but also make full use of the spacial place, increasing 3dB sound energy in small space. It greatly improves acoustic environment |
| Eco Performance | E1 |
| Size | W 350* L 600/1200/1800/2400* T 350mm Length can be customized |





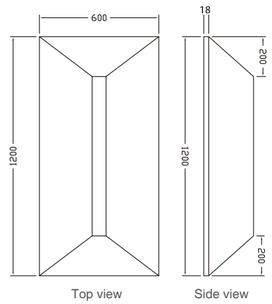
## WY-D8

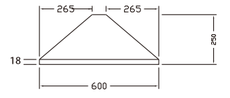





## WY-D9

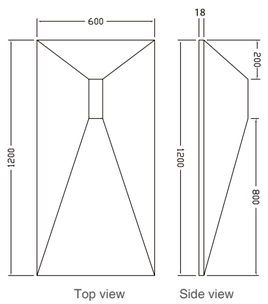


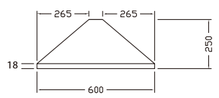



## WY-D10





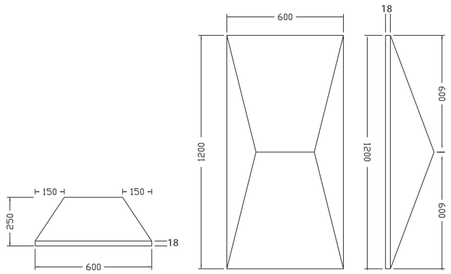




### SPECIFICATIONS

| | |
|---|---|
| Name | Wood Diffuser |
| Base Material | Rubber Solid/Pine Wood /HDF |
| Finish | PU Painting/Veneer |
| Model | WY-D8/D9/D10/D11/D12/D13/D14 |
| Features | MLS diffuser has superior diffusion performance, scattered the incidence sound to avoid echo and stationary wave. It makes sound field uniform distribution and improves sound environment.Diffusion frequency range: 500Hz-4000Hz |
| Eco Performance | E1 |
| Size | W 800*L 600/1200/1800*T 68mm or other customized |

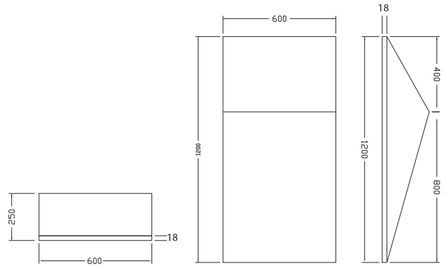
## WY-D11





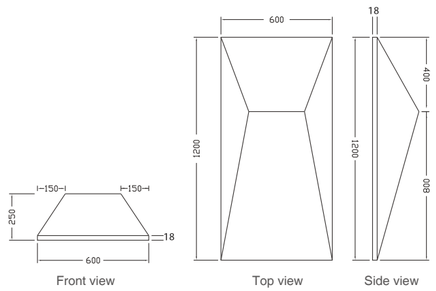

## WY-D12





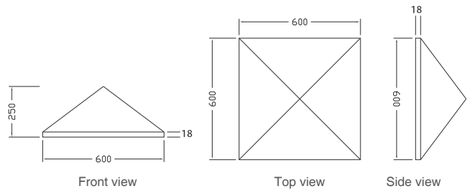

## WY-D13






## WY-D14













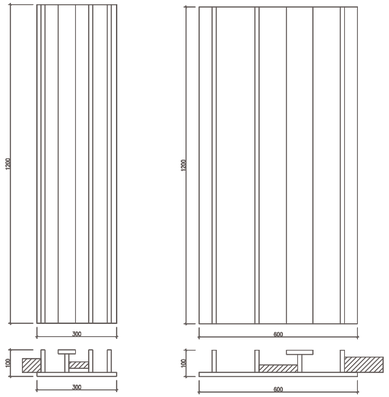


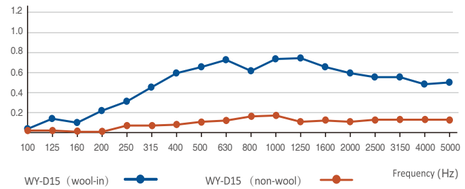



# VARIABLE ACOUSTIC DIFFUSER



## WY-D15A WY-D15B




BURLYWOOD



Oak Primary Color Pine Primary Color Redwood Color Walnut Color

SOLID COLOR



Almond yello Sunlight yellow Oral orange Khaki brown Coffee brown Gentleman blue Dark blue

Ivory white Moonlight grey Meteorite grey Bean green Classic green Algae green

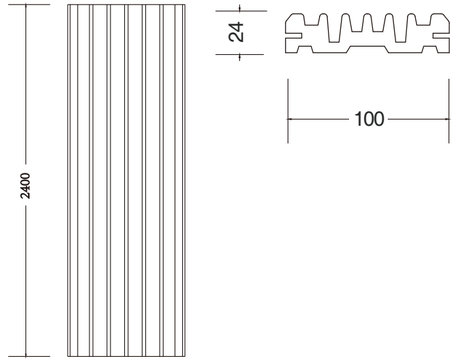
## SPECIFICATIONS

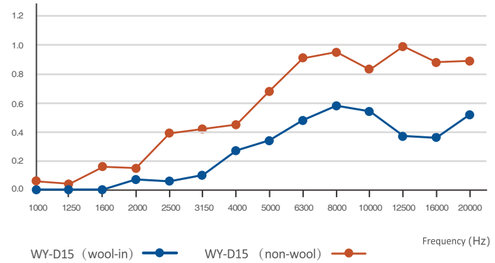
| | |
|---|---|
| Name | Variable Acoustic Diffuser |
| Base Material | Rubber Solid/Pine Wood /HDF |
| Finish | PU Painting/Veneer |
| Model | WY-D15A/WY-D15B |
| Features | WY-D15 adopts solid wood diffuer strip and fabric acoustic panel. It can adjust reverberation time as per different function. It both has good diffusion sound field and clean sound. It greatly improves acoustic environment |
| Eco Performance | E1 |
| Size | WY-D15A: W300*L 2400*T 100mm or other customized<br>WY-D15B: W600*L 2400*T 100mm or other customized |
| Application | Sound absorption and diffusion combination of Multi-function conference hall, Conference room, Auditorium, Small theater, Recording studio and other walls |



## WY-D16






BURLYWOOD



Oak Primary Color Pine Primary Color Redwood Color Walnut Color

SOLID COLOR



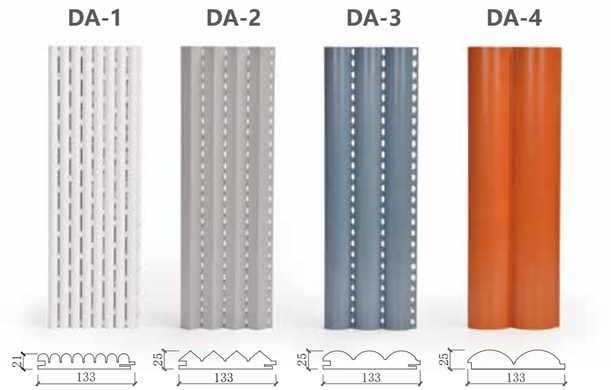
Almond yello Sunlight yellow Oral orange Khaki brown Coffee brown Gentleman blue Dark blue

Ivory white Moonlight grey Meteorite grey Bean green Classic green Algae green

## SPECIFICATIONS

| | |
|---|---|
| Name | Solid Wood Acoustic Diffuser |
| Base Material | Solid Wood |
| Finish | PU Painting |
| Model | WY-D16 |
| Features | WY-D16 diffuser can restore sound space feeling and greatly improves sound quality in hall. It can raise sound environment clear, satiation and three-dimensional |
| Eco Performance | E1 |
| Size | W 100mm*L 2400mm*T 25mm |
| Application | Concert hall, Home theater, Hi-Fi studio, Recording studio |

# DIFFUSION ACOUSTIC PANEL DA SERIES




## SPECIFICATIONS

| | |
|---|---|
| Name | Diffusion Acoustic Panel |
| Base Material | HDF/Fire-resistant MDF |
| Finish | PU Painting /PVC |
| Model | DA-1 / DA-2 / DA-3 / DA-4 |
| Features | Triangle or cylinder groove in surface, perforated in back with fire-resistant acoustic cloth, surface finish PU painting |
| Eco Performance | E1 |
| Size | DA-1: W 133mm*L 2440mm*T 21mm<br>DA-2/DA-3/DA-4: W 133mm*L 2440mm*T 25mm |
| Application | TV station, Theater, Opera house, Concert hall, Conference center, Stadium, Mall, Hotel, Restaurant, etc |





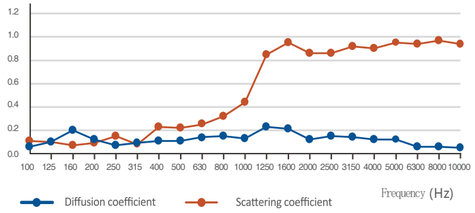


# ACOUSTIC CLOUD

## PRODUCT INTRODUCTION

The cloud shape diffuser is a kind of 3D diffuser. The cloud shape diffuser adopts hyperbolic design to diffuser sound waves in many aspects. The appearance becomes cloud shape, install especially on ceiling, has different visual experience. High-end decorative effect, especially suitable for home theater, recording studio, studio and other small rooms, etc.





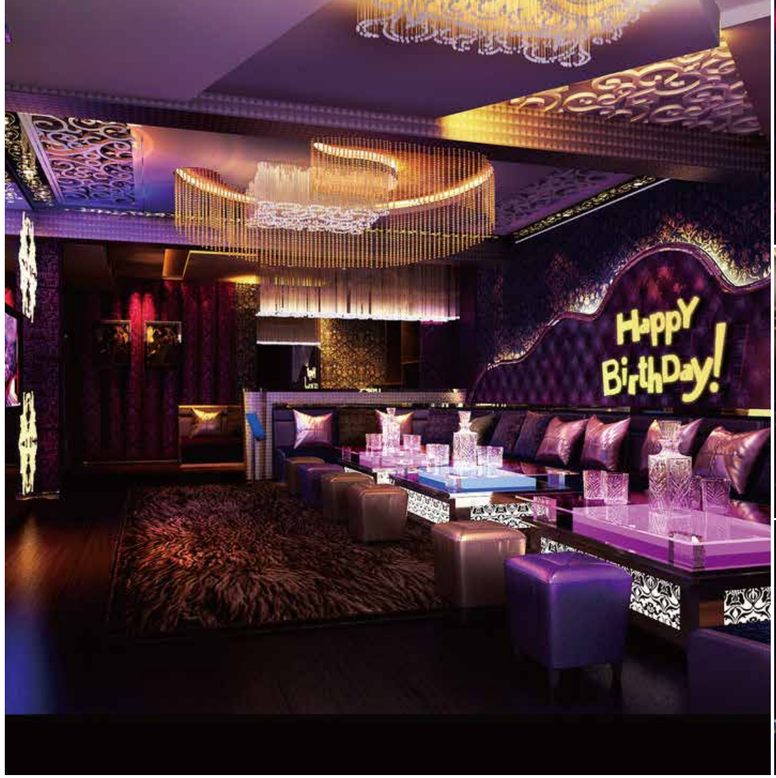





## SPECIFICATIONS

| | |
|---|---|
| Name | Cloud Diffuer |
| Base Material | High-density FRP Mould Pressed |
| Finish | Almond Yellow, Sunlight Yellow, Oral Orange, Khaki Brown, Coffee Brown, Gentleman Blue, Dark Blue, Ivory White, Moonlight Grey, Meteorite Grey, Bean Green, Classic Green, Algae Green |
| Model | WY-AC-1 |
| Features | Cloud diffuser, cloud like double curved surface design, can effectively diffuse low, medium and high frequency, especially in the middle, high frequency range |
| Eco Performance | E1 Grade, according to GB18580-2017 Standard for «formaldehyde Emission Limit In Wood-based Panels Of Interior Decoration Materials and their products .Environmental protection, no dust pollution |
| Fire Performance | Class A, in accordance with GB8624-2012 |
| Size | L 600mm*W 600mm*T 90mm |
| Tolereance | L ±1mm, W ±1mm, T ±1mm |
| Installation Method | Self-tapping screw fixation |
| Application | Home theater, Audio-visual room, Recording studio, Club and other place which needs high acoustic performance |












# SOUND INSULATION

Noise is a kind of sound which causes human upset or endangers human health in strong volume. Noise is one of most significant problems in the fast urban development process. Series of environmental noise control standards has been issued by Government.

Sound insulation and sound absorption are two different concepts. In structure, the sound insulating materials are dense and heavy. While the sound absorbing materials are porous and light. The main function of sound insulating materials are sound insulation but low sound absorption. But the main function of sound absorbing materials are sound absorption but low sound insulation rate.

The sound propagation is divided into air-borne and structure-borne sound transmission. Sound insulation is a way to cut off the airborne sound propagation. Vibration insulation is the control of structure-borne sound propagation caused by vibration through the media. So, sound insulation and vibration insulation will be treated separately.

There are three factors to generate and transmit the noise: noise source, transmission routes and receiver. Most adults can hear the noise with frequency range from 100Hz to 4000Hz. The frequency of conversation and common noise in the buildings is basically 125Hz to 4000Hz. The wall sound reduction STC refers to the sound insulation capability of wall to the noise within the range of 125Hz to 4000Hz.

## DECIBEL

Decibel(dB) is a unit used for expressing the sound relative intensity. Physically, the defined reference acoustic pressure(P0=2X10-5pa) corresponds to 0dB. If the noise pressure is P, the noise decibel is equal to 20log(P/P0). So decibel is a designated unit. As the same as earthquake magnitude unit expressing the earthquake intensity, the collapsing force of earthquake at a scale of 6 is generally low, but the earthquake at a scale of 7 may cause a catastrophe

### SOUND REDUCTION INDEX

The sound insulation function of materials is the capability to reduce the noise intensity. If the sound of one room is 75dB, the sound transmitted to the adjacent room through the wall will be reduced to 40dB. So the sound insulation function of the wall is 35dB.

# SOUND INSULATION BOARD IB SERIES

## SOUND INSULATION BOARD IB06

IB06 is a high-pressure composite three-in-one sandwich structure board, with gray MGO board and white MGO board at different densities and thicknesses on both sides, and polymer damping felt sandwiched between them to form damping constraint. The sound wave is transmitted in the solid through vibration, so the composite damping sound insulation board can effectively convert sound energy into heat energy; At the same time, the composite use of different sound insulation materials gives full play to the advantages of various sound insulation materials and improves the overall performance of sound insulation. This board multiple improves the air sound insulation and structural sound insulation of the original material.



Sound insulation
A grade fire-resistant
Environmentally friendly
Mildew and moisture resistance
Easily installation
Cost-effective

### SPECIFICATIONS

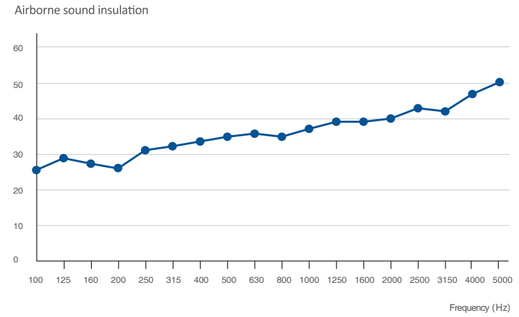
| | |
|---|---|
| Name | Sound Insulation Board IB06 |
| Size | W 1220mm*L 2440mm*T 16mm |
| Per PC Weight | 55kg |
| Sound Insulation | 36dB |
| Eco Performance | Reach to E1 of GB18580-2017 standard |
| Fire Performance | Reach to A Grade of GB8624-2012 |
| Application | Equipment machinery room, Office , KTV, Nightclubs, Leisure clubs, Gymnasiums and other places that need to improve the sound insulation of walls and ceilings |



## SOUND INSULATION BOARD IB07

IB07 is made of high-density inorganic materials with different thicknesses on both sides, with 2mm polymer damping felt in the middle, and is compounded into a three-in-one sandwich structure under high pressure. The two inorganic materials and the middle damping felt form damping constraints, which change the resonance frequency of the original material and multiply improve the air sound insulation and structural sound insulation of the original material.






Sound insulation
A grade fire-resistant
Environmentally friendly
Mildew and Moisture resistance
Easily installation
Cost-effective

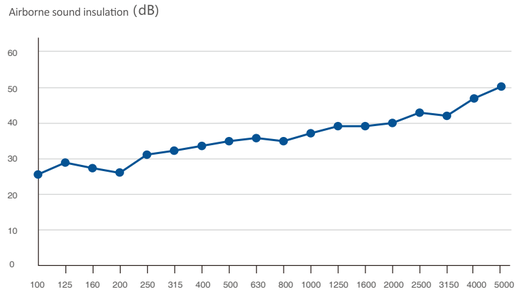
### SPECIFICATIONS

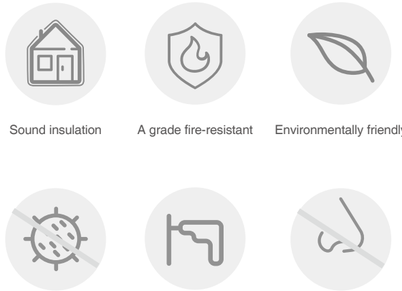
| | |
|---|---|
| Name | Sound Insulation Board IB07 |
| Size | W 1220mm*L 2440mm*T 16mm |
| Per PC Weight | 61.5kg |
| Sound Insulation | 38dB |
| Eco Performance | Reach to E1 of GB18580-2017 standard |
| Fire Performance | Reach to A Grade of GB8624-2012 |
| Application | Houses, Hotel rooms, Private cinemas, HiFi rooms, Piano practice rooms, Recording rooms and other places that need to improve the sound insulation of walls and ceilings |

## SOUND INSULATION BOARD IB07E

IB07E is made of high-density inorganic materials with different thicknesses on both sides, with 2mm polymer odor-purifying and environment-friendly damping layer sandwiched in the middle, and is compounded into a three-in-one sandwich structure under high pressure. The two inorganic materials and the middle damping felt form damping constraint, which changes the resonance frequency of the original material, effectively improves the air sound insulation and structure sound insulation of the original material, and is used in places with very high requirements for environment-friendly odor.






## SPECIFICATIONS

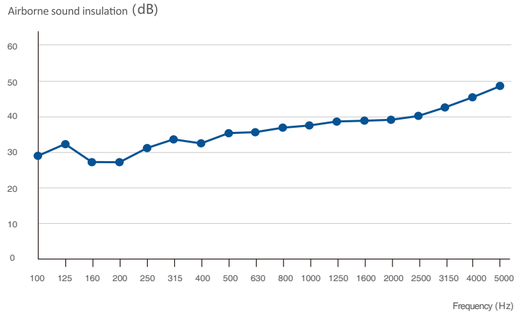
| | |
|---|---|
| Name | Sound Insulation Board IB07E |
| Size | W 1220mm*L 2440mm*T 16mm |
| Per PC Weight | 61.5kg |
| Sound Insulation | 38dB |
| Eco Performance | Formaldehyde-free environmentally friendly (no smell ) |
| Fire Performance | Reach to A Grade of GB8624-2012 |
| Application | Houses, Hotel rooms, Private cinemas, HiFi rooms, Piano practice rooms, Recording rooms and other places that need to improv the sound insulation of walls and ceilings, especially suitable fore places with very high requirements for environmental odor |



## SOUND INSULATION BOARD IB08

IB08 is composite of inorganic materials with different materials, thicknesses and densities on both sides, with 2mm polymer damping glue in the middle, and is composite into a three-in-one sandwich structure under high pressure. Two inorganic materials with higher density form damping constraint with the middle damping glue, which changes the resonance frequency of the original material and highly increases the air sound insulation and structural sound insulation of the original material.









## SPECIFICATIONS

| | |
|---|---|
| Name | Sound Insulation Board IB08 |
| Size | W 1220mm*L 2440mm*T 16mm |
| Per PC Weight | 69.5kg |
| Sound Insulation | 38dB |
| Eco Performance | Conform to E1 of GB18580-2017 standard |
| Fire Performance | Conform to A Grade of GB8624-2012 |
| Application | Houses, Hotel rooms, Private cinemas, HiFi rooms, Piano practice rooms, Recording rooms and other places which need to improve the sound insulation of walls and ceilings |

# SOUND INSULATION BOARD INSTALLATION METHODS






**Cutting**

Cut with the stone saw and the electric cutting machine. Grind the fracture surface to ensure the joint effect



**Punching**

Punch directly with the electric drill or the tapper. The hole diameter should be proper to prevent expanding sound leakage



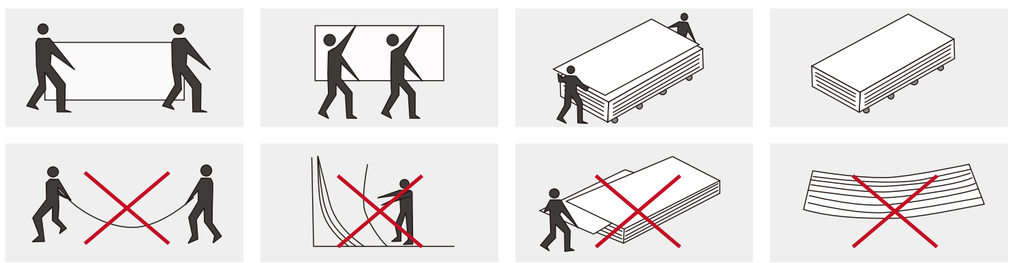
**Clean**

After cutting and punching, please clean up the powdery dust may rise on the surface



**Fix**

After filling the acoustic damping sealing glue SG-1 , fix and Install the sound insulation board with the flat Head self tapping screws



**NOTES ON STORAGE AND HANDING**

Keep the boards level and store them at the hard place. Pay attention to avoiding handling by single person when storing. The correct way is that two persons hold the board sides by two hands to handle horizontally or stand upright to handle by two hands.



# HIGH POLYMER SOUND INSULATION FELT HIF-A



## PRODUCT INTRODUCTION

High polymer sound insulation felt is a kind of high-density polymer metal sound insulation felt, which is used as a material for controlling wind resistance and noise in aviation cockpit. With brand-new environmentally friendly raw materials, polymer structural formulations and advanced manufacturing technology, the product is green and environmentally friendly, odorless, free of formaldehyde, benzene, asbestos, radioactive substances and other harmful components to human body, and fully conform to the international emission standards of volatile organic compounds.

Efficient blocking of noise transmitted through construction structures such as walls, ceilings and floors, excellent damping characteristics and surface density increase the sound insulation of raw materials. It can be composite to the surface of the gypsum board, an inorganic plate, and a wooden plate, and the amount of raw material is from 15 to 30 dB.

## SPECIFICATIONS

Good fire resistance, temperature resistance, elasticity, flexibility and tensile strength; The installation is convenient and it can be cut by cutting tools such as wallpaper knife and utility knife. The sound insulation can be fixed with staple nails or glue, and the installation of mechanical equipment can be fixed by clamping nails or gluing in conjunction with sheet metal structures. It is an environmentally friendly sound insulation material which is not limited by shape, structure and space.

## SPECIFICATIONS

| | |
|---|---|
| Name | High Polymer Sound Insulation Felt HIF-A |
| Size | W 610*L 20000*T 1mm<br>W 610*L 10000*T 2mm<br>W 610*L 10000*T 3mm |
| Per PC Weight | HIF-A10: 25kg; HIF-A20: 25kg; HIF-A30: 36.6kg |
| Area Density | HIF-A1Q 2.05kg/m²<br>HIF-A2Q 4.10kg/m²<br>HIF-A3Q 6.15kg/m² |
| Eco Performance | Environmentally friendly, safe, nontoxic pollution-free |
| Fire Performance | Reach to class A under ASTM-E84 standard, Class 1 under BS476 part 7 standard |
| Application | Functional building sound insulation, such as Houses, Hotel rooms, Offices, Conference rooms, Private cinemas, HiFi rooms, Piano practice rooms and Recording studios |

## COMPARISON

| | Normal Rubber Sound Insulation Felt | WINEGO High Polymer Sound Insulation Felt HIF-A10/A20/A30 |
|---|---|---|
| Material | Waste rubber is used as raw material for production, which has heavy odor, low environmental protection and intensity, and causes great indoor air pollution. The area density is low, the sound insulation function lower, and the sound insulation effect is difficult to reach the standard. | Fully environmentally friendly raw materials are pressed physically compaction, and no chemical harmful adhesives. The area density not less than 2.05kg/m² （T:1mm), which can effectively block the frequency of 125-20KHz. With the rear cavity structure, enhances the sound insulation of low frequency . |
| Installation Method | The material is low in strength and toughness, and it is easy to break and crack during installation. | The installation is convenient and efficient, and it can be arbitrarily folded, bent, sheared, and fixed with glue, gun nail etc. |
| Sound Performance | Poor, rely on increasing the thickness of materials or match with other materials to improve the sound insulation performance. | Excellent damping characteristics and area density improve the sound insulation of raw materials. |
| Fire Performance | Does not have flame retardant performance. | Reach to class A under ASTM-E84 standard, Class 1 under BS476 part 7 standard. |
| Eco-friendly | It may cause toxic pollution to human body and environment. | Reach to E1 of GB18580-2017 standard. |
| Air sound insulation index | Low sound insulation. | Composite on the surface of gypsum board, inorganic board, wooden board and other materials, the sound insulation of the original material can be increased by 15~30dB. |



### INSTALLATION METHOD

Fix wood batten/light steel keel

Filled acoustic wool

Lay high polymer sound insulation felt

Fix nail

Acoustic damping sealing glue SG-1



# HIGH POLYMER SOUND INSULATION FELT HIF-B



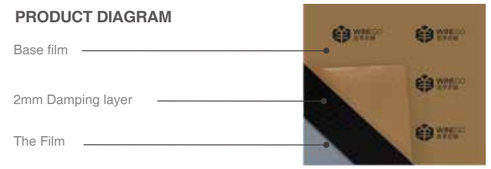
### PRODUCT INTRODUCTION

High polymer sound insulation felt is made of environmentally friendly and no odor high-purity butadienyl damping adhesive as the main component, combined high-density mineral powder and other sound-absorbing particles. The excellent damping characteristics of damping felt can immediately change the resonance effect of the original base material, which has excellent wide frequency band damping sound insulation performance and is widely used, is the most cost-effective interiors damping composite. Suitable for snapshots of residential, hotel, club, KTV night club, recording, studio, etc., all kinds of sheet composite use, and industrial traffic equipment damping sound noise reduction.

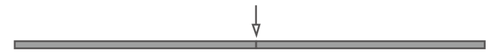
### SPECIFICATIONS

1. Only 2mm thick, with area density of 3.9kg/m², and excellent effects of vibration reduction, sound insulation and noise reduction;
2. Super-flexible, adaptable to any shape of substrate, and fusion material that is not limited by shape, structure and space;
3. Double-sided super self-adhesive, fully integrated into the substrate surface;
4. Easy installation, cutting with utility knife and other tools;
5. Good at fire resistance, temperature difference resistance, elasticity and tensile strength;
6. No manufacturing emission, no waste pollution, and can be recycled for environmental protection for many times.

### PRODUCT DIAGRAM




### CONSTRUCTION METHOD



### SPECIFICATIONS

| | |
|---|---|
| Name | High Polymer Sound Insulation Felt (Double-sided Self-adhesive Model) HIF-B |
| Size | W 610mm*L 610/2450mm*T 1/2/3mm |
| Area Density | T 1mm：1.95kg/m² ; T 2mm：3.9kg/m² ; T 3mm：5.85kg/m² |
| Eco Performance | Environmentally friendly, safe, nontoxic and pollution-free |
| Fire Performance | Reach to class A under ASTM-E84 standard, Class 1 under BS476 par 7 standardt |
| Application | 1. Composite light gypsum board, inorganic board, and wooden board wall can significantly improve the sound insulation of the wall;<br>2. Composite ceiling, improve the floor insulation effect;<br>3. The sound insulation compound of the door changes the vibration frequency of the door leaf itself, and significantly improves the sound insulation of the door leaf. |

# HIGH POLYMER SOUND INSULATION FELT HIF-C

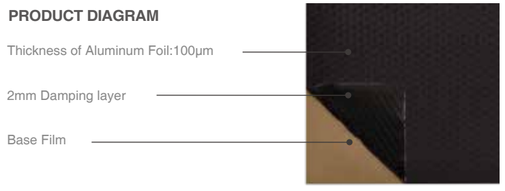


| | |
|---|---|
| Name | High Polymer Sound Insulation Felt (Single-sided Self-adhesive Model) HIF-C |
| Size | W 610mm*L 610mm*T 2mm |
| Per PC Weight | 1.5kg |
| Area Density | 4.2kg/m² |
| Eco Performance | Environmentally friendly, safe, nontoxic and pollution-free |
| Fire Performance | Reach to class A under ASTM-E84 standard, Class 1 under BS476 part 7 standard |
| Application | 1.The floor mat is used, effectively increases the double- soundinsulation performance of floor impact and air sound;<br>2. Wrap the pipe to improve the sound insulation and noise reduction performance ;<br>3. The sound insulation performance improved of metal damping vibration-proof materials for sound insulation covers, construction machinery, car, ship cabins and engine compartment. |

## PRODUCT INTRODUCTION

High polymer sound insulation felt (single-sided self-adhesive Model) HIF-C is compounded with a 100μm soft aluminum foil constraint layer on the basis of HIF -B, which strengthens the damping performance of the original damping layer, and has excellent fireproof, waterproof and antioxidant characteristics. It is suitable for the sound insulation renovation of houses, hotels, clubs, KTV nightclubs, recording studios, studios and other places, the composite use of all kinds of plates and the damping, sound insulation and noise reduction of industrial traffic equipment.

## PRODUCT DIAGRAM




## CONSTRUCTION METHOD



## SPECIFICATIONS

1. 2mm damping layer with 100μm soft aluminum foil on the surface layer, with area density of 4kg/㎡;
2. Integration material with Super-flexible, adaptable to any shape of substrate, that is not limited by structure and space;
3. Super-strong single-sided self-adhesive, fully integrated into the substrate surface;
4. Easy installation, cutting with wallpaper knife, scissors and other tools;
5. Good fire resistance, temperature difference resistance, elasticity and tensile strength;
6. No manufacturing emissions, no waste pollution, and can be recycled environmentally.

## PIPELINE APPLICATION METHOD



1. Tear off the base film



2. Wrap up the damping insulation felt around the tube and stick on it



3. Please overlap 2-3cm for edge joint wrapping



4. Check the effect after the installation

# MASS LOADED VINYL
# MLV - A

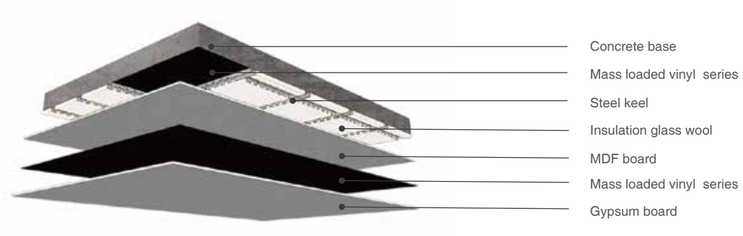


## PRODUCT INTRODUCTION

Damping sound insulation felt is a sound insulation material made of modern technology. It is prepared by the reaction of rubber, metal powder and various additives.

## SPECIFICATIONS

| | |
|---|---|
| Name | Mass Loaded Vinyl MLV-A |
| Size | W 1000*L 5000/10000*T 2/3mm（Allowable Tolerance W±2mm，L±2mm，T±0.5mm） |
| Fire Performance | Conform to class A under ASTM-E84 standard, Class 1 under BS476 part 7 standard |
| Application | Modern building industry, Factory buildings, Machine rooms, Air compressors, Conference rooms, Multi-functional halls, KTV, Industrial pipelines, Offices and other places that need sound insulation and noise reduction |




## INSTALLATION METHOD

1. Panel, keel and wall three to prevent direct rigid contact. At the contact point of the wall, the damping sound insulation felt needs to be used as the gasket.

2.The ceiling and the top of the wall have lighting, exhaust fan and air conditioning duct. We need to consider the sound insulation treatment of these equipment and corresponding pipes.

3. The felt needs to fill the space. Special attention should be paid to the gap between the boards and the gap between the felt and the board, which should not be overlapped and staggered.

4. Reserve the connection of strong and weak current, and make sound insulation in advance.



# LOW FREQUENCY DAMPING
# BRICK LD SERIES

Low-frequency damping brick LD-1 is made of highly elastic polymer, which is processed at high temperature and high pressure for a long time. Under the action of pressure, the volume shrinkage is small, the resilience is excellent, and the sound bridge can be effectively blocked, which is environmentally friendly and safe.

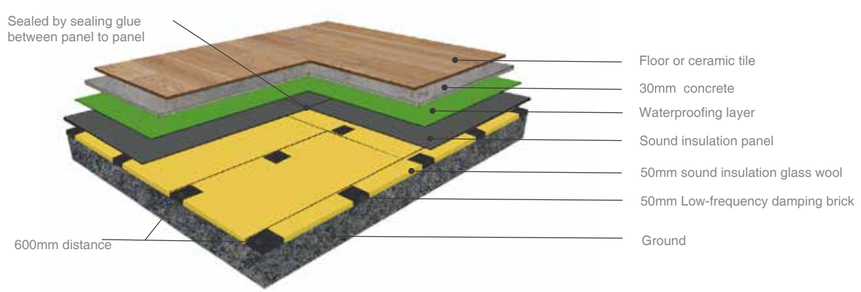
## FEATURES

Combined with the properties of high elasticity, high loading capacity, impact resistance, environmental protection and long service life, it is suitable for places with high requirements for vibration reduction.



## SPECIFICATIONS

| | |
|---|---|
| Name | Low Frequency Damping Brick LD-1 |
| Size | W 100/120/150*L 100/120/150*T 25/50mm |
| Per PC Weight | W 150*L 150*T 50mm：1kg（Reference weight） |
| Eco Performance | Environmentally friendly, safe, nontoxic and pollution-free |
| Fire Performance | Reach to class A under ASTM-E84 standard, Class 1 under BS476 part 7 standard |
| Application | Bars, KTV, Night shows, Gymnasiums, Cinemas, Opera houses, Concert halls, Home audio and video and other places |




## INSTALLATION METHOD

1. The ground shall be cleaned and kept flat without concave convex surface and bulge.
2. According to the design requirements, the proportion of tile.
3. The upper and lower waterproof layers should be well treated to avoid the material being affected by moisture and affecting the service life.
4.The rigid connection between the concrete reinforcement curing layer and the wall column is disconnected.

# SOUND INSULATION DAMPING MAT SD SERIES




## SOUND INSULATION DAMPING MAT SD-A

SD-A sound insulation damping mat is made of PU new polymer raw materials, environmentally friendly rubber particles, highly elastic rubber fibers and acoustic damping materials. It has no harmful gas emission, is green and environmentally friendly, and its product structure and physical properties are stable. The material is flexible with high resilience, damping and adhesion, it performances excellent acoustic characteristics of transmission loss from sound energy and vibration wave.
Fully installation design makes it a balanced and huge surface supporting, effectively enhance the vibration frequency width, play its own material characteristics, truly achieving achieving the effect of vibration reduction and sound insulation without structure.
Installation in the hotel carpet or residential wood flooring moisture pad, effectively increase the sound insulation between floors, and absorbing the downward transmitted footsteps and the noise generated by impact.

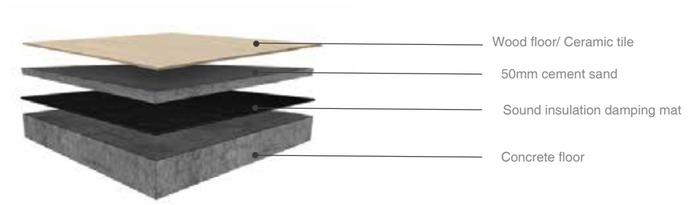
## FEATURES

1. Closed-cell characteristics make it non-absorbent and reduce the possibility of corrosion prevention, so it is suitable for use in wet and humid areas, and it will not degrade, with long service life, mildew resistance and bacterial growth resistance;
2. The friction coefficient of the surface of the material is large, it is not easy to shift after installation, and it can be closely attached to the floor surface, which is conducive to windproof and finished product protection;
3. The product has thin thickness and high stiffness, which can significantly improve the foot feeling effect of various common low-density foam sound insulation cushion products, and completely eliminate the quality hidden dangers such as hollowing and cracking;
4. Excellent vibration and sound insulation performance, effectively absorbing vibration and noise of various frequencies, and the impact sound insulated max at 16~35dB.

## SPECIFICATIONS

| | |
|---|---|
| Name | Sound Insulation Damping Mat SD-A |
| Size | W 1000*L 10000*T 3mm<br>W 1000*L 10000*T 5mm<br>W 1000*L 5000*T 10mm |
| Density | 500-650kg/m³ |
| Eco Performance | Environmentally friendly, safe, nontoxic and recyclable |
| Fire Performance | Reach to class A under ASTM-E84 standard, Class 1 under BS476 part 7 standard |
| Application | Floor mats are laid in environmentally friendly buildings, high-end residential buildings, hotel rooms, offices, private cinemas, HiFi rooms, piano practice rooms, recording rooms, KTV nightclubs, etc., forming an interception layer between the floating ground and the basic structure, cutting off the way of sound transmission to the basic structure, and significantly improving the sound insulation from impact and vibration loss of the floor |

## INSTALLATION METHOD

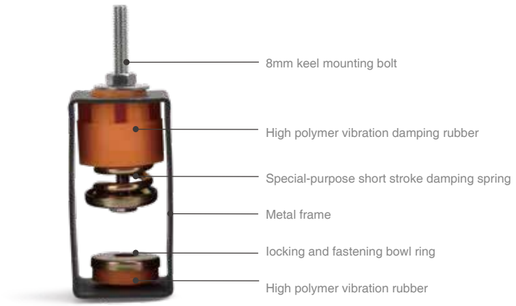



1.Keep the ground clean and smooth, and cut the product according the required size.
2. Made the absorption mat on the floor, and its laying position should align at the joint of skirting line, also taped up the joints.
3. Avoid the leakage and the seam paving between the mat and the ground.
4.After install the mat, the cement, finished tiles and wood floor should be immediately covered onto the mat.

# VIBRATION ABSORBER VA SERIES

## CEILING VIBRATION ABSORBER / WALL VIBRATION ABSORBER

Ceiling vibration absorber is made of 100% original high polymer vibration damping adhesive, the aging resistance time and the damping coefficient are five times that of the refurbishing adhesive, thereby ensuring the permanency and safety of vibration damping and sound insulation effect in the aspect of hardware quality. It is an effective way to cut off the structure-borne sound transmission of the suspended ceiling and the original base building ceiling. Wall vibration absorber is suitable for installing and fixing the wall reinforced sound insulation structure layer of form the sound insulation layer between the sound wave irradiation surface and the original base wall.




Ceiling Vibration Absorber




W all Vibration Absorber

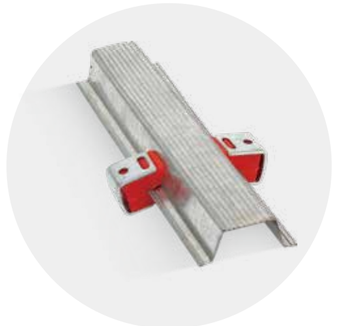
## SPE CIFICATION

| | |
|---|---|
| Name | Ceiling Vibration Absorber VA-C/ Wall Vibration Absorber VA-W |
| Size | Ceiling: W 50mm* L100mm*T 50mm<br>Wall: W 126mm* L 45mm*T 50mm |
| Eco Performance | Green environmental protection, safe, non-toxic and pollution-free |
| Fire Performance | According to GB8624-2012 classification of combustion performance of building materials and products, the combustion performance reaches grade B1, which is flame retardant |
| Bearing Weight | Ceiling: 30-50kg<br>Wall: 0-50kg |
| Effective Frequency Range | 80Hz-150Hz |
| Installation Method | Expansion bolt fixed |
| Application | Bar, KTV room, Music recording, etc |



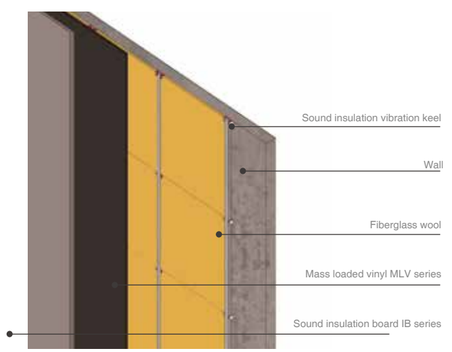
## INSTALLATION METHOD





## SO UND INSULATION VIBRATION KEEL

Sound insulation vibration keel adopts natural rubber materials and light steel keel. Nature rubber is a soft link with wall and light steel keel. It cuts off the sound bridge and have good reduction for low and high frequency vibration. The empty space installation method for keel, has obvious sound insulation and vibration effect in wide frequency. The damping rubber also has sound insulation and vibration effect for wall body vibration in low frequency. The simple structure and less space, low natural vibration frequency, good vibration effect keel , which is an a right device for wall body vibration and sound insulation.




## SIZE

| | |
|---|---|
| Keel | Length: 3000mm, Width at top: 35mm,<br>Width in bottom: 67mm, Height: 25mm |
| Rubber | L 100mm*W 25mm*H 25mm |

# ACOUSTIC DAMPING SEALING GLUE SG SERIES



## PRODUCT INTRODUCTION

The joint of sound insulation structures of ceiling, wall and ground should be treated with soft contact, but not hard contact. Seam filling is the last and most important step of sound insulation treatment.
WINEGO acoustic damping sealing glue has excellent sealing and sound insulation performance, no organic substances volatilization, no any toxic substances, and the product has viscoelasticity, which is suitable for caulking and sealing of inorganic materials of plates and fixing of damping and damping glue of metal rubber and other materials. It is non-corrosive to organic and inorganic materials, metal and rubber. Excellent aging resistance, good adhesion to various substrates, strong moisture-proof and high-low temperature adaptability (used in the temperature range of -50℃~100℃), and stable and reliable performance.

## SPE CIFICATIONS

| | |
|---|---|
| Name | Acoustic Damping Sealing Glue SG-1 |
| Per pc Weight | 0.75kg |
| Whole Carton Quantity | 20pcs |
| Eco Performance | Environmentally friendly, safe, nontoxic and pollution-free |
| Fire Performance | Non-flammable and explosive materials |
| Application | 1. Sound insulation board installation joints filled and sealed;<br>2. Fix metal keel to sound insulation board , the damping function of contact surface enhanced, effectively eliminating structural resonance;<br>3. The wire and tube hole of the sound insulation layer and the outlet of the air conditioning ventilation pipe are sealed to prevent air leakage;<br>4. To fix position of low frequency damping brick and sound insulation board during installation and laying. |

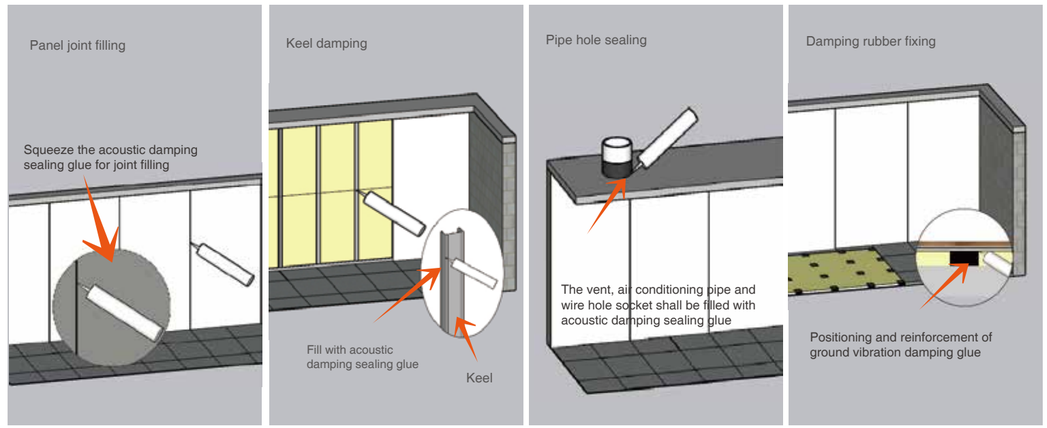
## MODE OF USE

The bonding seal requires that the surface of substrate must be clean, dry, dust-free,oil-free and moisture-free, and it is not suitable for installation when the temperature is lower than 4℃ or higher than 100℃.
The surface of the substrate can be cleaned with clean cotton white cloth, wiped dry, and glued within one hour. Make sure that the joint is filled with glue without gaps, and modify it before the glue solidifies.

## MATTERS NEEDING ATTENTION

1.If the skin or eyes directly contacts the uncured adhesive cement, it may cause allergic reaction. In construction, avoid contacting with skin, wear protective gloves and use it in the well-ventilated working environment.
2.It is a non-flammable and explosive material, and can be transported as a general non-dangerous goods.
3.It shall be stored at a dry, ventilated and cool place. The suitable storage temperature is 26℃ and the storage period is 9 months.

## APPLICATION









# SOUND INSULATION DOOR ID SERIES

As the economy development, the demand of  life quality for people is more and more exquisite. Professional sound insulation door is widely used in recording studio, five-star hotel, high end villa and office building. Professional sound insulation door adopts several different materials board and damping vibration insulation treatment base on mass law and acoustic principle. It uses unbalance air layer acoustic structure design, filled with high density fiberglass. The door has obvious sound insulation performance in middle and high frequency (250~5000Hz). We have three types of door for different customer's request as belows: metal wood composite sound insulation door, metal sound insulation door, wood sound insulation door.





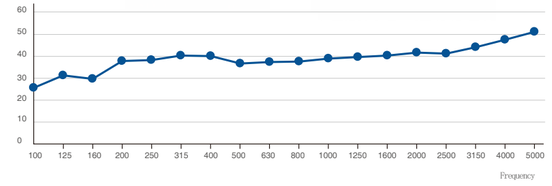
# METAL WOOD COMPOSITE SOUND INSULATION DOOR



Airborne sound insulation

**PRO DUCT INTRODUCTION**

Metal and wood composite sound insulation door composited with high pressure of five different materials as: galvanized steel plain board, inorganic board, wood board, damping layer and gas seal, sealed with magnetic contol rubber. The finish is natural veneer finish and various finishs for choice.




**SPE CIFICATION**

| | |
|---|---|
| Name | Metal Wood Composite Sound Insulation Door |
| Model | ID01 |
| Finish | Melamine Finish / Veneer Finish/HPL Fire-Proof |
| Size | Single leaf: W 860mm*H 2050mm*T 70mm or other customized<br>Double leaf: W 1500mm*H 2100mm T 70mm or other customized |
| Sound Insulation Parformance | Single: STC40-45dB  Double: STC35-40dB |
| Threshold | Optional |
| Opening Direction | Optional |
| Lock | Standard or Optional |
| Application | Hotel, Home, Auditorium room , Piano room , Music class room,<br>Recreation place, Conference hall, Home theater, etc |

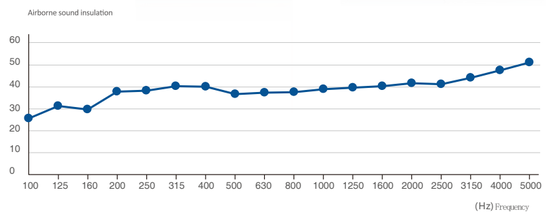
# METAL SOUND INSULATION DOOR





## PRO DUCT INTRODUCTION

Metal sound insulation door is made of galvanized steel plain sheet, filled with damping sound insulation wool and any other insulation materials, with magnetic control rubber seal strip. It include design with threshold and without threshold. Without threshold design adopt liftable bottom seal strip, reduce the sound leak.




| | |
|---|---|
| Name | Metal Sound Insulation Door |
| Model | ID02 |
| Finish | Baking Finish/Wood Grain Transfer Printing Finish |
| Size | Single leaf : W 860mm*H 2050mm*T 70mm or other customized<br>Double leaf: W 1500mm*H 2100mm*T 70mm or other customized |
| Sound Insulation Parformance | Single: STC40-45dB Double: STC35-40dB |
| Threshold | Optional |
| Opening Direction | Optional |
| Lock | Standard or Optional |
| Application | Hotel, Home, Audition room, Piano room, Music class room,<br>Recreation places, Conference hall, Luxury office, etc |



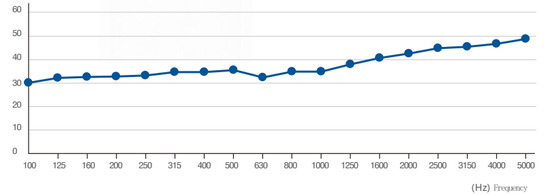
# WOOD SOUND INSULATION DOOR





## PRO DUCT INTRODUCTION

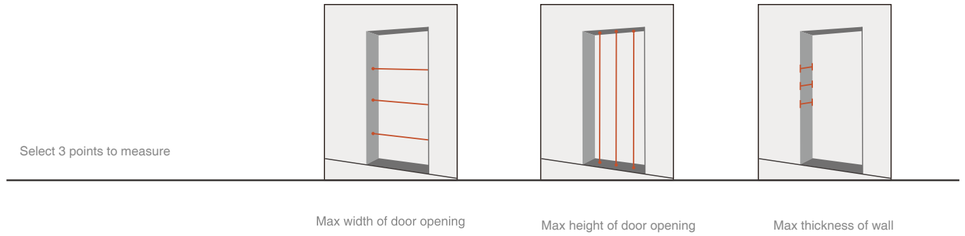
Wood sound insulation door is made of solid wood, filled with damping sound insulation wool and using magnetic rubber seal strip.



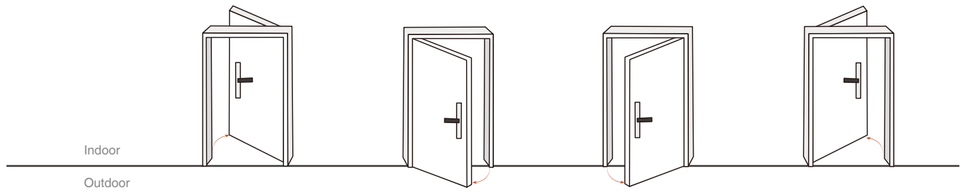

## SPE CIFICATION

| | |
|---|---|
| Name | Wood Sound Insulation Door |
| Model | ID03 |
| Finish | Natural Veneer Finish |
| Size | Single leaf: W 860mm*H 2050mm*T 50mm or other customized<br>Double leaf: W 1500mm*H 2100mm*T 50mm or other customized |
| Sound Insulation Parformance | Single: STC35-38dB Double: STC30-35dB |
| Threshold | No Threshold |
| Opening Direction | Optional |
| Lock | Standard or Optional |
| Application | Hotel, Cinema, House, Villa, Luxury office building, etc |

**Sketch of door opening measuring**



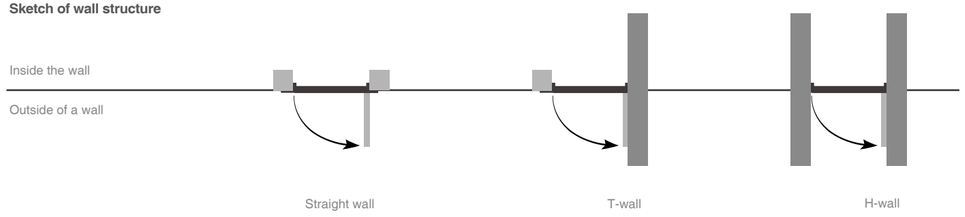

**Sketch of door-open direction**






Door view of out-standing

**Sketch of wall structure**

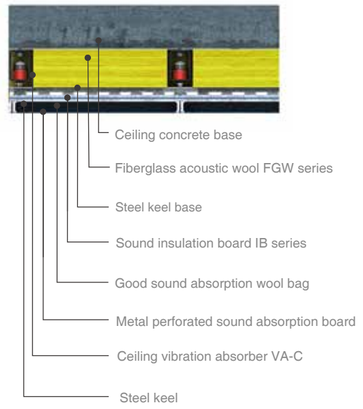


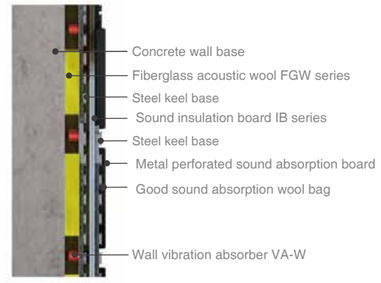



# SOUND INSULATION SYSTEM SULUTION SIS SERIES



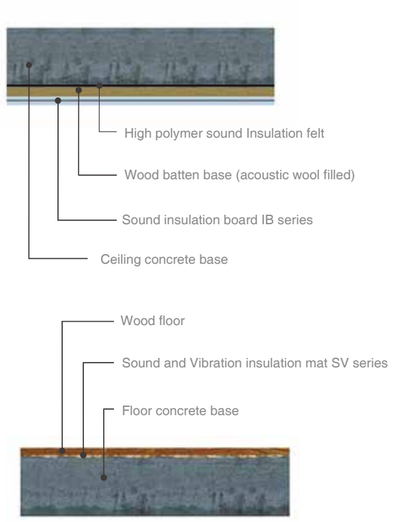
## Factory sound insulation system sketch map

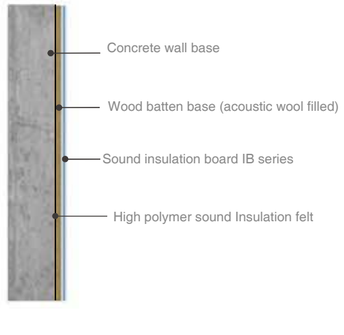





## Home sound insulation system sketch map



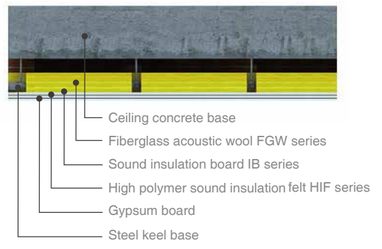



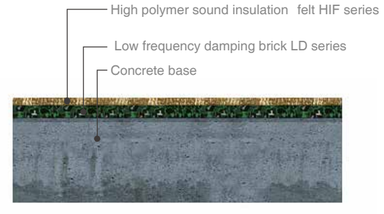






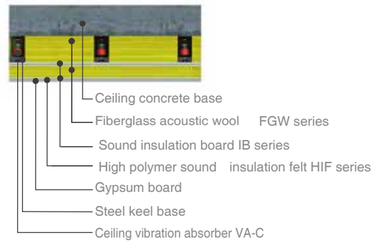

## Hotel sound insulation system sketch map

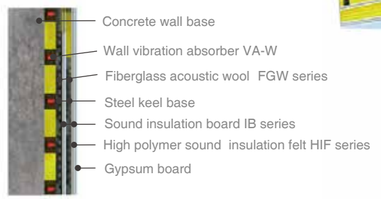





# Bar sound insulation system sketch map










# Recording room sound insulation system sketch map

