# ACOUSTIC PANEL

The full name of the sound absorbing board is polyester fiber decorative sound absorbing board. The raw material is polyester fiber hot pressed by the equipment, the product has high strength, and the cocoon-shaped cotton made by a unique technology to achieve density diversification and ensure certain ventilation performance. So that the product has a good sound absorption effect and heat insulation performance. The sound absorbing board can shorten and adjust the reverberation time to adapt to different needs, remove sound impurities, improve sound and improve voice clarity.Study on sound absorption properties of polyester fiber and other porous materialsSimilar. The absorption coefficient increases with frequency as the sound increases. The high frequency absorption coefficient is very large. Sound absorption performance, noise reduction coefficient is about 0.8~1.1, is oneAn efficient sound absorption product.Polyester fiber sound-absorbing board has super sound insulation performance, because its material characteristics are uniform and strong, so it has decoration, heat preservation, fire retardant, light body, easy processing, good stability, impact resistance, wear resistance, easy maintenance, good elasticity, toughness, tear resistance, not easy to damage and other characteristics.





## Product specification

| | |
|---|---|
| Materials | 100% high quality polyester fiber soundproof board |
| Sizes | 1220*2440mm Customizable |
| Thickness | 9mm/12mm/24mm |
| Fire rating | B1 |
| Environmental grade | E0 |
| Authentication sound absorption parameters | 0.8-1.1 |
| color | White, blue, green, yellow, etc. (Color card 44 colors) |

# ACOUSTIC PANEL
# COLOR


F2423


F2422


F2421


F2403


F2419


F2414


F2401


THF 21


THF 14


F2415


F2411


F2408


F2431


THF 1852


THF 1855


F2432


F2406


THF 04


F2410


F2407


F2405


THF 1848


THF 39


THF 18


F2412


THF 17


F2420


THF 07


F2418


THF 1854


F2413


THF 16


F2417


THF 12


THF 11


F2416

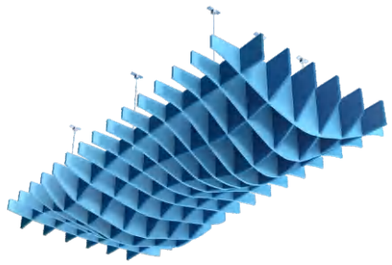

THF 10


THF 03

Electronic color card for reference only, please refer to the actual!

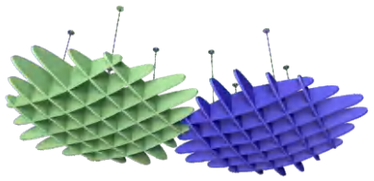


# ACOUSTIC PANEL CEILING PRODUCT MOLDING BOARD



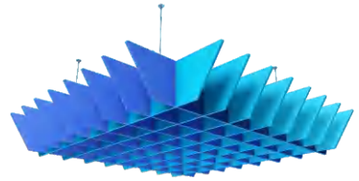
## AW-0A-220801

| BASIC INFORMATION | | | |
|---|---|---|---|
| Product name | | | ACOUSTIC PANEL |
| Sizes | Molding size | | 1200*2400*400mm |
| | Thickness | PET | 9mm、12mm |



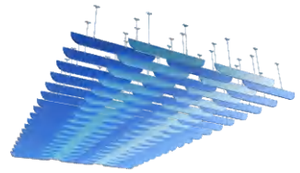
## AW-0A-220803

| BASIC INFORMATION | | | |
|---|---|---|---|
| Product name | | | ACOUSTIC PANEL |
| Sizes | Molding size | | 1200*1200*180mm |
| | Thickness | PET | 9mm、12mm |



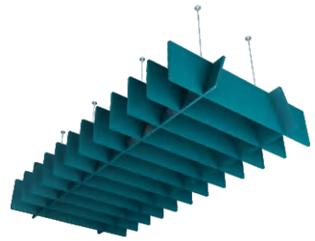
## AW-0A-220804

| BASIC INFORMATION | | | |
|---|---|---|---|
| Product name | | | ACOUSTIC PANEL |
| Sizes | Molding size | | 1200*2400*290mm<br>2400*2400*290mm |
| | Thickness | PET | 9mm、12mm |



## AW-0A-220812

| BASIC INFORMATION | | | |
|---|---|---|---|
| Product name | | | ACOUSTIC PANEL |
| Sizes | Molding size | | 1200*200mm/1pcs |
| | Thickness | PET | 9mm、12mm |



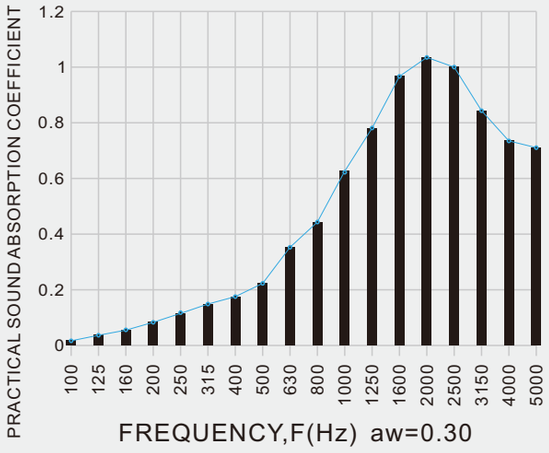
## AW-0A-220802

| BASIC INFORMATION | | | |
|---|---|---|---|
| Product name | | | ACOUSTIC PANEL |
| Sizes | Molding size | | 1180*2400*277mm |
| | Thickness | PET | 9mm、12mm |

## The sound absorption coefficient of the sound absorption board

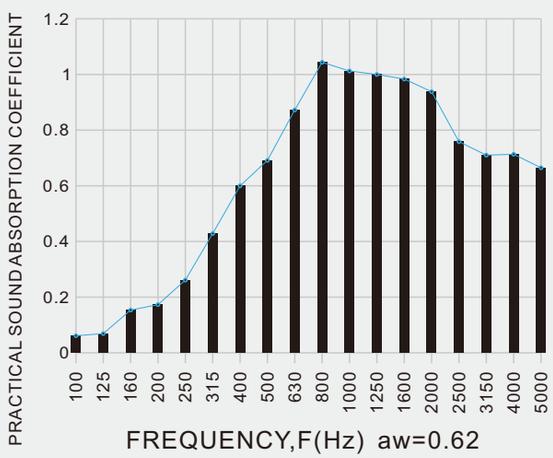
According to the test method of EN ISO 354:2003, laboratory measurements of the absorption coefficient were carried out in a reverberation chamber.

The grille is mounted directly on the wall



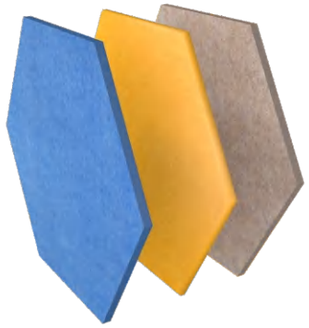

As shown in the figure, the 21mm panel, attached directly to the wall, obtains an absorption coefficient of 0.3 (MH).

The grille is mounted on the wooden keel



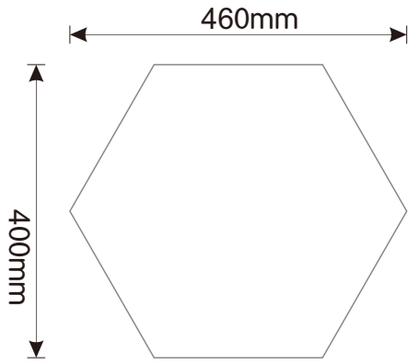

As shown, the 21mm panel, mounted on a 46mm spaced wood keel and mineral wool insulation, achieves an absorption coefficient of 0.62 (MH).

# ACOUSTIC PANEL

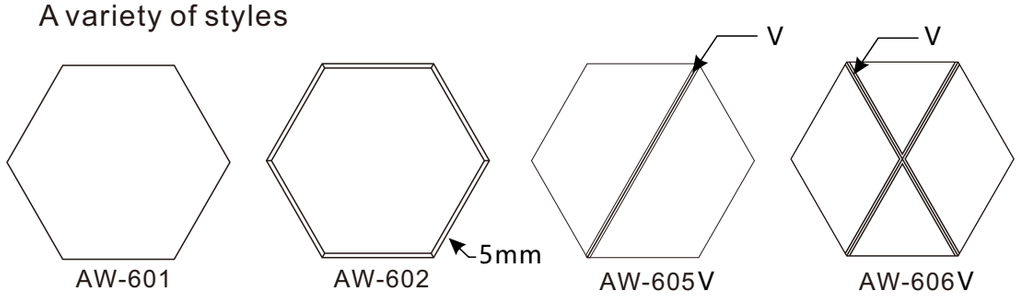


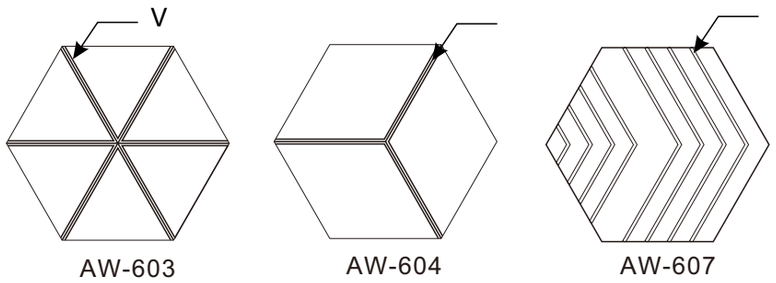
## AW-002

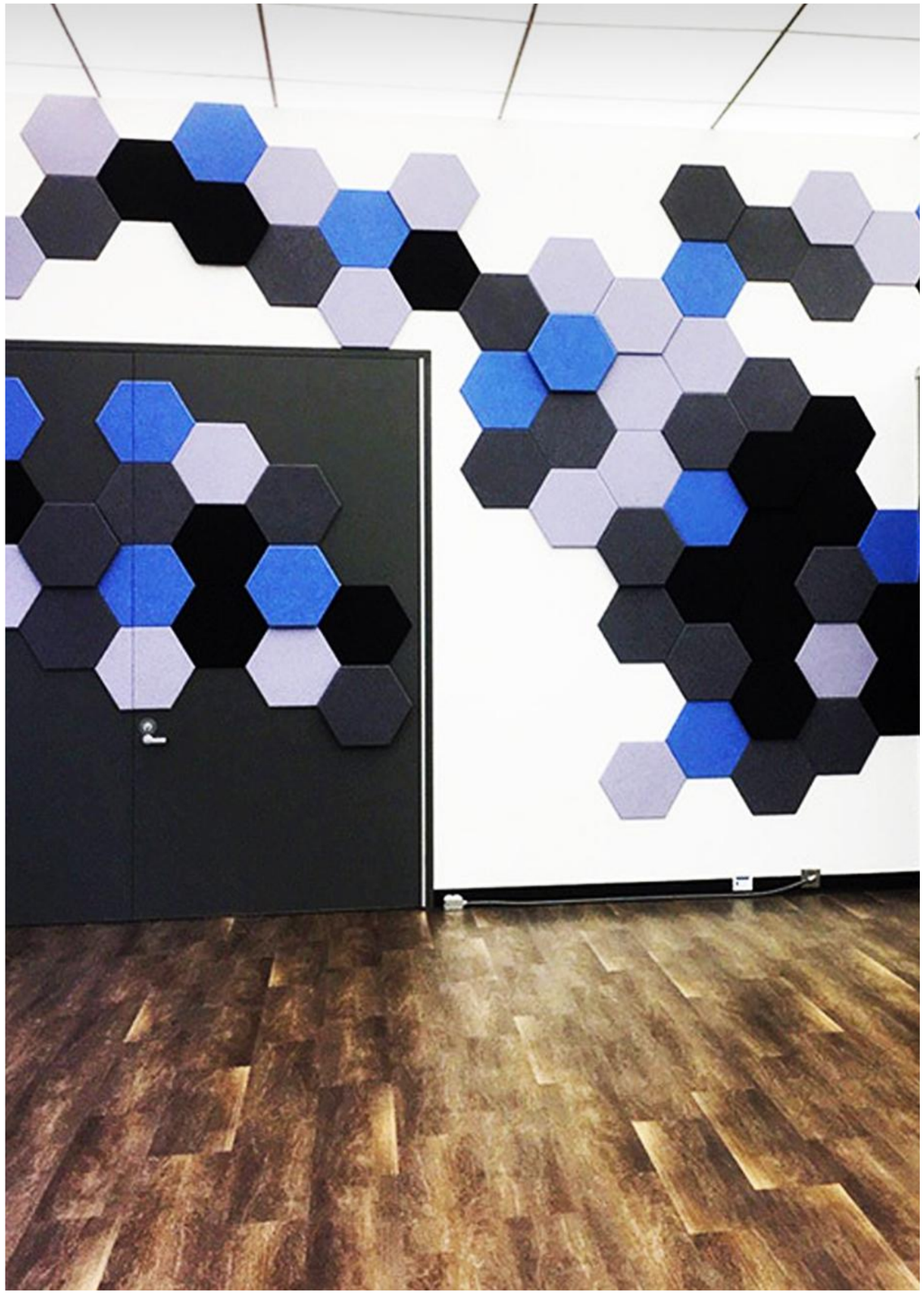
| BASIC INFORMATION | | | |
|---|---|---|---|
| Product name | | | ACOUSTIC PANEL |
| Sizes | Molding size | | 460*400mm |
| | Thickness | PET | 9mm、12mm |



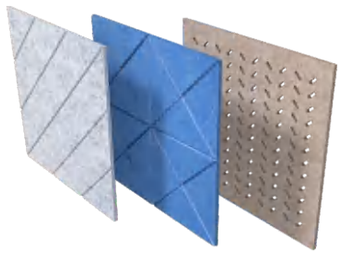

A variety of styles



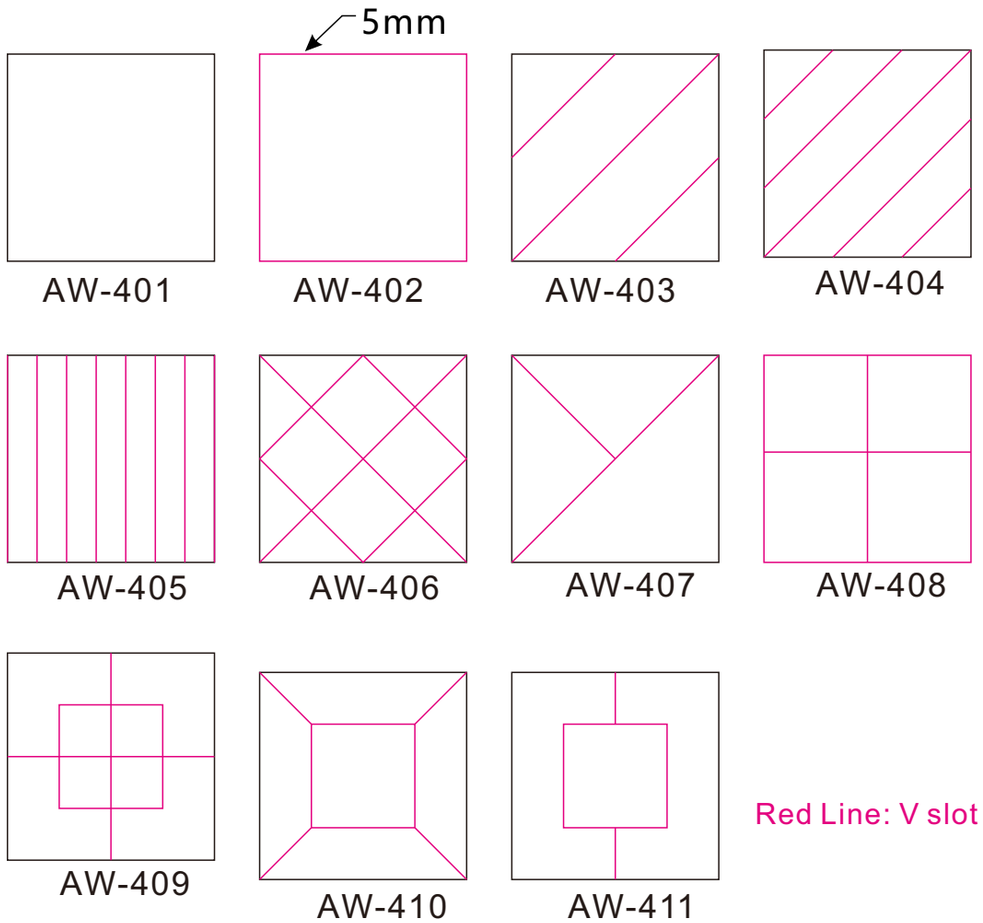



# ACOUSTIC PANEL

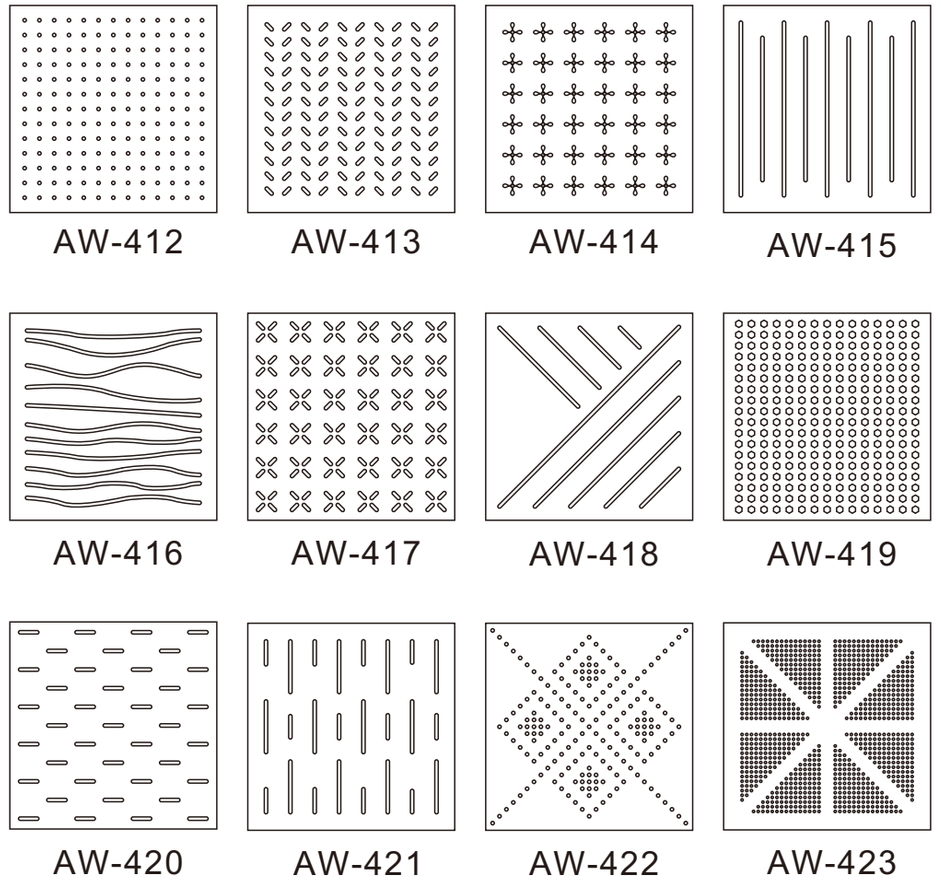


## AW-003

| BASIC INFORMATION | | | |
|---|---|---|---|
| Product name | | | ACOUSTIC PANEL |
| Sizes | Molding size | | 400*400mm<br>600*600mm Customizable |
| | Thickness | PET | 9mm、12mm |




Red Line: V slot





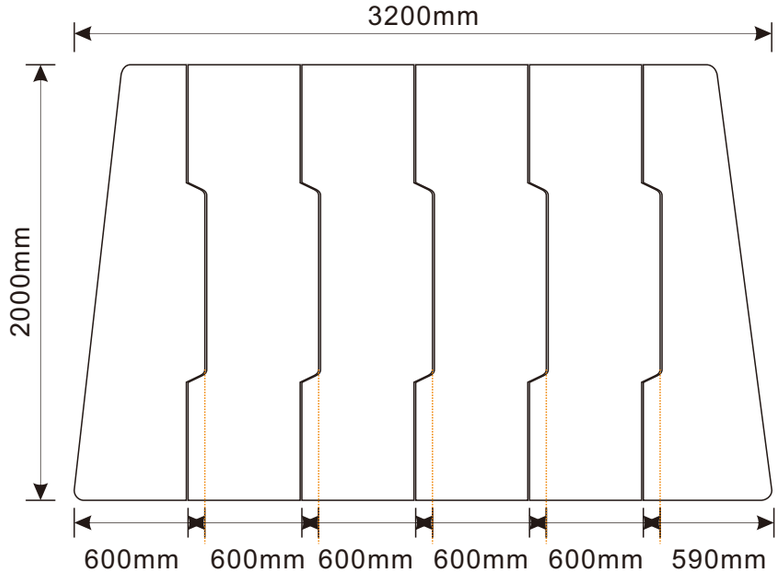

**SCREEN SOUND-ABSORBING PANEL**

Product specification: 24mm thick support customization

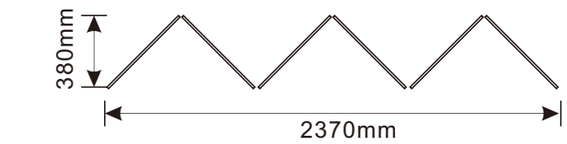
## A



Front view



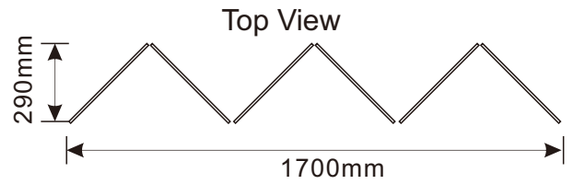

Top View



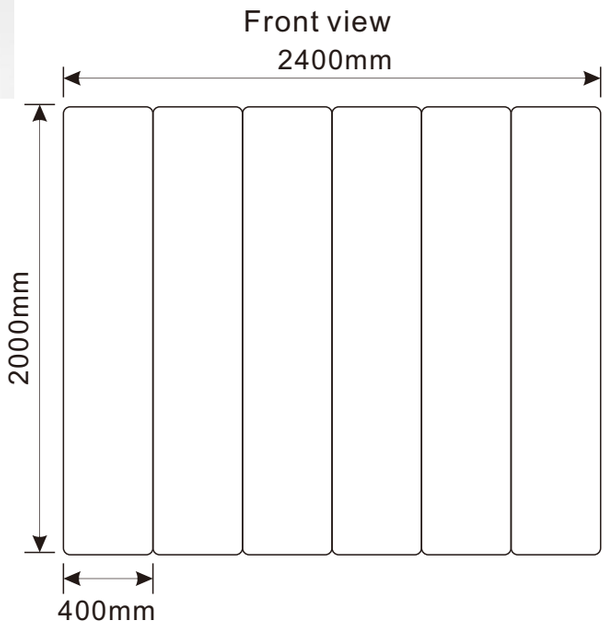

## B



Top View




Front view



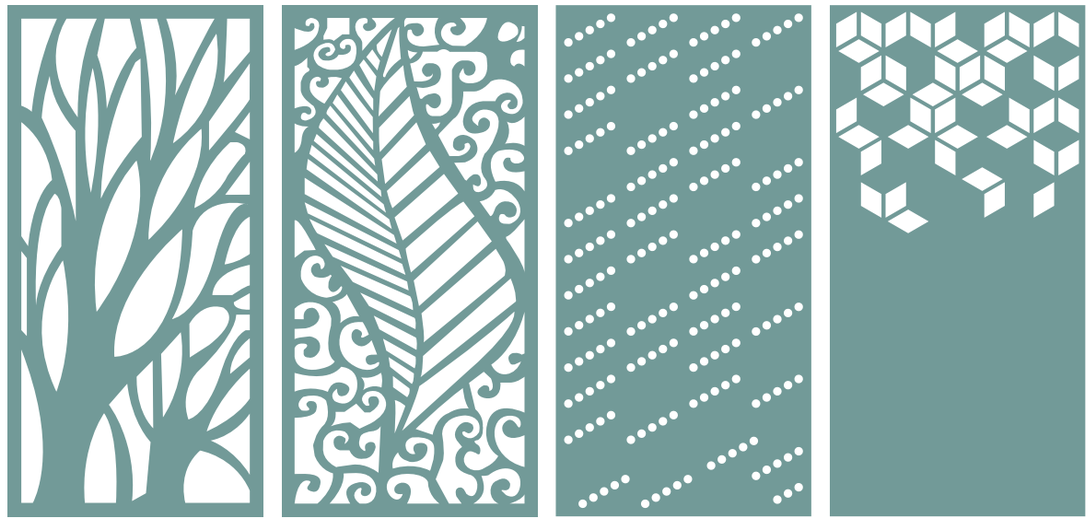
# PATTERN ENGRAVING BOARD

BASIC INFORMATION

Product name: ACOUSTIC PANEL
Pattern engraving board
Finished size: 600*1200mm
1200*2400mm
Thickness: 12mm、20mm
Customizable



AW-TA-001 AW-TA-002 AW-TA-003 AW-TA-004



AW-TA-005 AW-TA-006 AW-TA-007 AW-TA-008



AW-TA-009 AW-TA-010 AW-TA-011 AW-TA-012



AW-TA-013 AW-TA-014 AW-TA-015 AW-TA-016

# WALLBOARD

Assembling decorative building materials  State high-tech Enterprises
To give you a healthy and safe home

Product specification:  600x2440x9mm
650x2800x9mm





Sound absorption and insulation

Quick and easy

Waterproof and moisture-proof

Heat preservation and insulation

Fire and flame retardant

FDA food grade certification

Certification of children's toys

International SGS certification

European CE certification

ASTM certification

## Inspection certificate





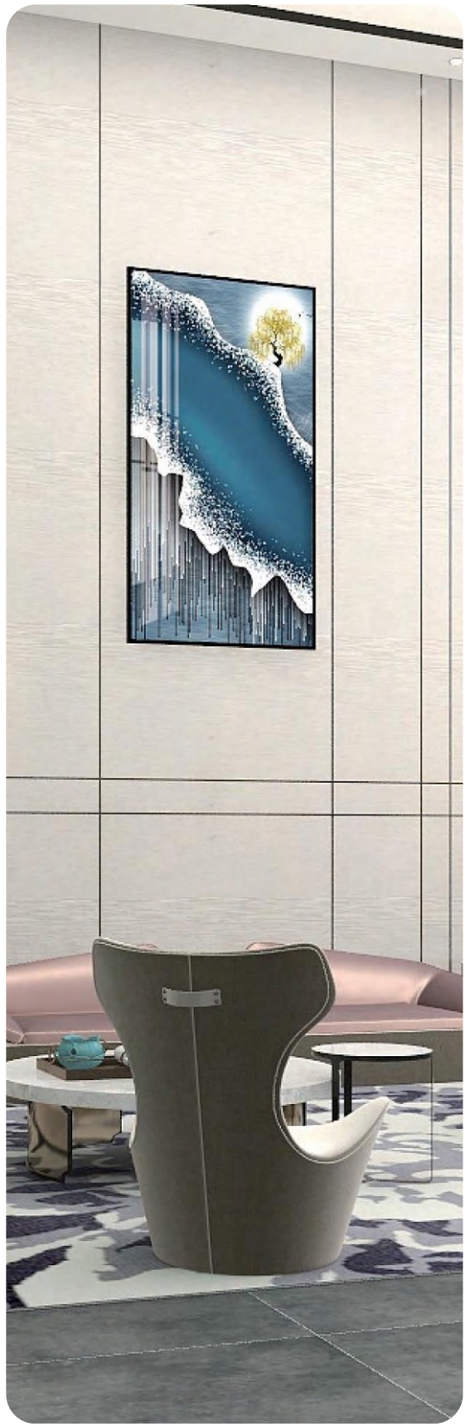




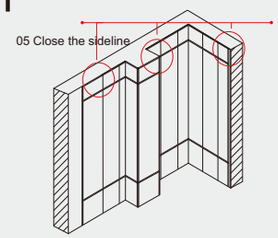




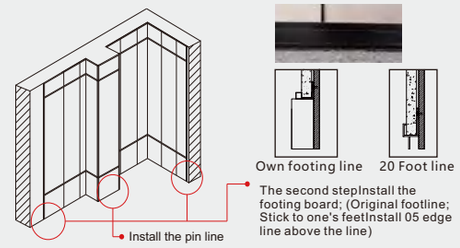

# Installation diagram



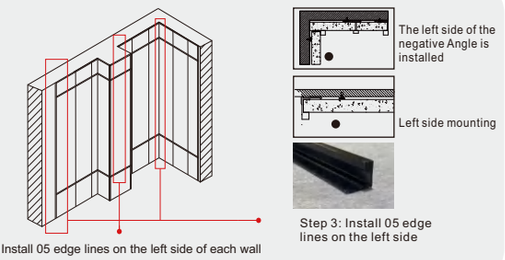
1



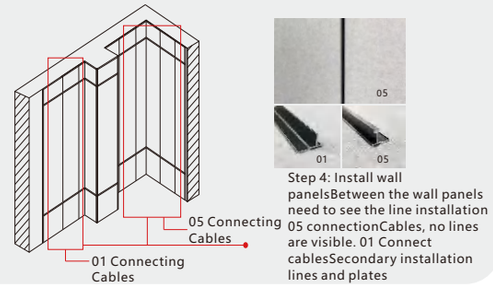

2



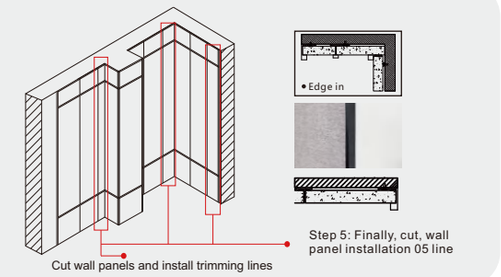

3




4




5

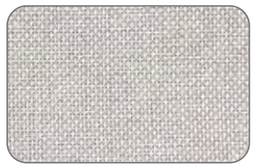




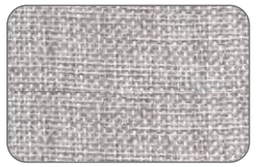
## Linen series



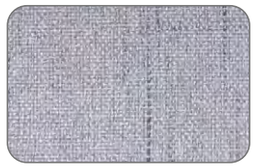
AW-S101



AW-S104



AW-S105



AW-S102



AW-S103



AW-S106

## Cashmere series



AW-S301



AW-S302



AW-S305



AW-S303



AW-S304



AW-S306

## American wall cloth series



AW-S201



AW-S202



AW-S207



AW-S208



AW-S203



AW-S204



AW-S209



AW-S210



AW-S205



AW-S206

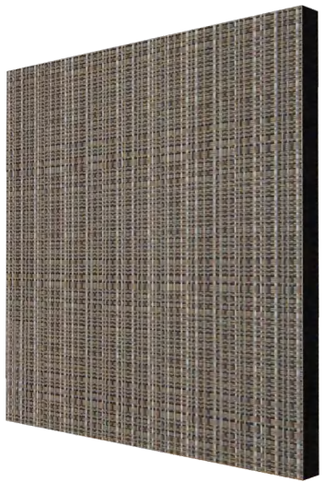


AW-S211



AW-S212

# ACOUSTIC FLOORING



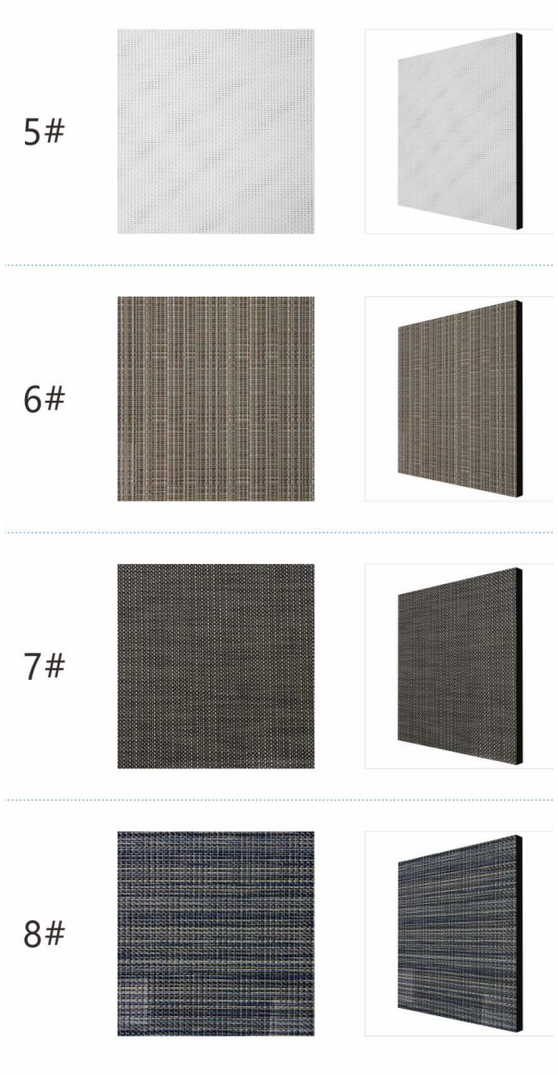
## Product introduction

The Anyway woven flooring collection combines Tianhan's expertise with the designer's contemporary vision. The fresh perspective and unique identity cultivated by the studio are cleverly expressed in the floor's eight collections.The rich textures are inspired by nature, the elegant subtle and complex colors reveal the aesthetics of our raw materials, and the quality confirms the viability of the floor collection. It's delicate and neutral in deep, delicate tones. Bold colors add infinite personality, while graphic variety of effects, from classic to bold, create a unique look.

| BASIC INFORMATION | | | |
|---|---|---|---|
| Product name | | | ACOUSTIC FLOORING PRODUCTS |
| Sizes | Finished size | | 400*400mm<br>600*600mm<br>Customizable |
| | Thickness | PET | 9mm、12mm |





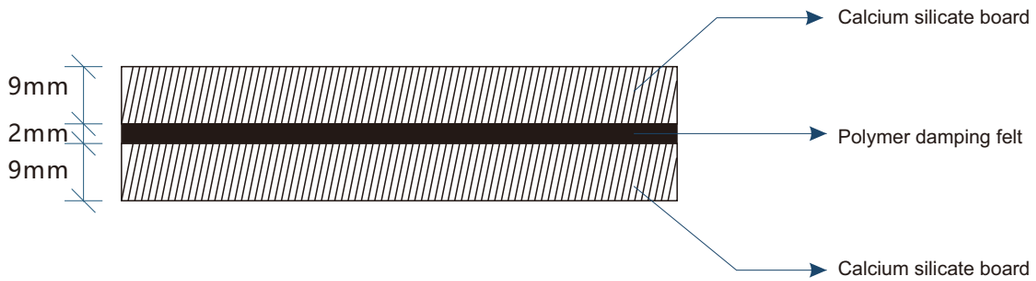
# CALCIUM SILICATE SOUNDPROOF PANEL





Calcium silicate board + soundproof felt + calcium silicate board

Product specification:
600x1200x20mm
1200x1200x20mm

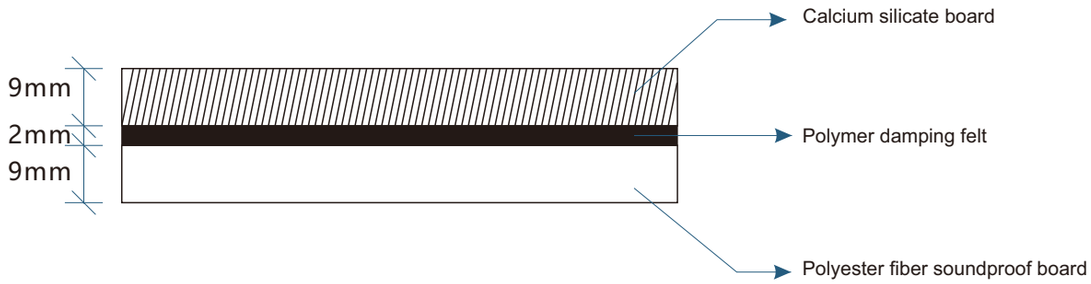



Damping sound insulation felt is a kind of polymer sound insulation felt with high performance, high quality and excellent transmission loss. Using new environmentally friendly raw materials, halogen-free renewable polymer as raw materials, green environmental protection, free of formaldehyde, benzene, asbestos and radioactive substances and other harmful ingredients. Making full use of the quality laws of building acoustic materials, the damped sound insulation felt can effectively absorb the noise transmitted by the partition through the building structure of walls, ceilings and floors.Strong damping and surface density can greatly improve the volume insulation of the raw material. Sandwich composite without substrate, wooden board, etc., the sound insulation of the composite structure can reach 10-29dB.



Calcium silicate board + soundproof felt + polyester fiber sound-absorbing board

Product specification:
600x1200x20mm
1200x1200x20mm



## WALL SOUND INSULATION SCHEME

The living room belongs to the space of soap operas and football leagues, and the study room is the stage wall enhancement for children's growthSound insulation structure, foam hollow brick, light wall panel and other original wall structure, can not meet the living room and other space sound insulation referenceStandard demand, do not remove the damage to the original wall, build enhanced sound insulation layer has become the first choice to solve the problem, so that homeLife no longer compromises...

### OPTION ONE

Wall enhanced sound insulation structure



Product name

Acoustic cotton absorbent

Product model

BE500

Product Specifications

W495xH495xT25mm

Product weight

500g/$m^2$

Inside there are a large number of tiny connected pores, along which sound waves can penetrate deep into the material, friction with the material to convert sound energy into heat.It is a porous sound absorption material, and the sound absorption characteristic is that the sound absorption coefficient gradually increases with the increase of frequency, which means that the low frequency absorption is not as good as the high frequency absorption. The necessary conditions for sound absorption of porous materials are: the material has a large number of pores, the pores are interconnected, and the pores are deep inside the material.



Product name

Calcium silicate soundproof panel

Product model

G600

Product Specifications

1200x2400x10mm

Product weight

28kg/$m^2$

The calcium silicate sound insulation board is composed of a high density silicate board on the top, a middle damping sound insulation felt and a bottom silicate board. The damped sound insulation felt is a kind of polymer sound insulation felt with high performance, high quality and excellent transmission loss. Using new environmentally friendly raw materials, halogen-free renewable polymer as raw materials, green environmental protection, free of formaldehyde, benzene, asbestos and radioactive substances and other harmful ingredients.Making full use of the quality laws of building acoustic materials, the damped sound insulation felt can effectively absorb the noise transmitted by the partition through the building structure of walls, ceilings and floors. Strong damping and surface density can greatly improve the volume insulation of the raw material. Sandwich composite without substrate, wooden board, etc., the sound insulation of the composite structure can reach 10-29dB.



Product name

Sound insulation damping sealant

Product model

G600

Product Specifications

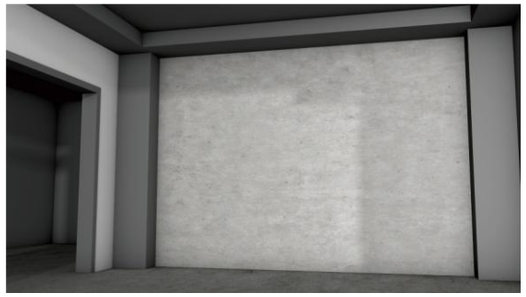
300x50mm

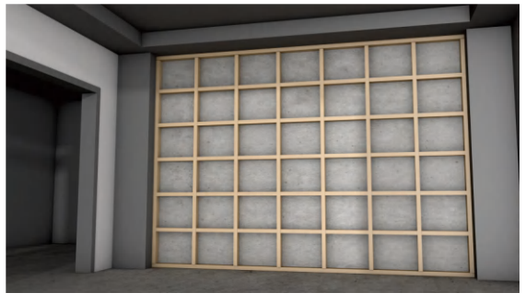
Product weight

600ml

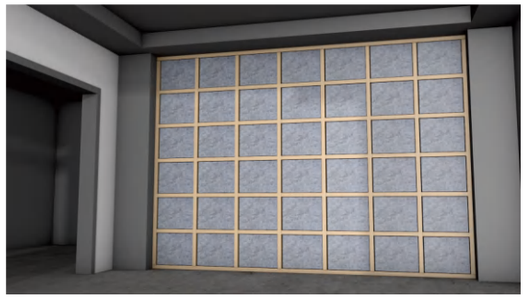
Product features Effectively used in plate type inorganic material joint sealing and metal rubber and other materials damping vibration reduction fixed. Non-corrosive to organic, inorganic materials and metal, rubber, excellent aging resistance, good adhesion to a variety of substrates, moisture resistance and high and low temperature adaptability (-20°C~100°C temperature difference range), stable and reliable performance. It is suitable for filling and sealing the installation joint of the sound insulation structure plate to prevent air leakage, adding glue to the contact surface of the metal keel and the substrate to increase the damping effect and reduce the structural resonance, and fixing the laying position of the ground vibration damping glue.

## Installation method

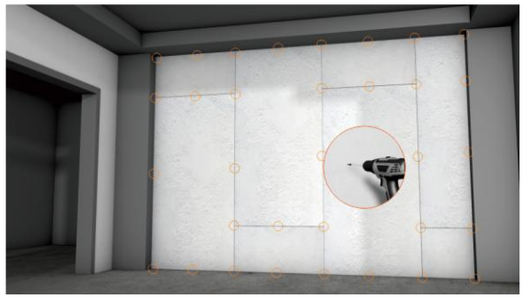




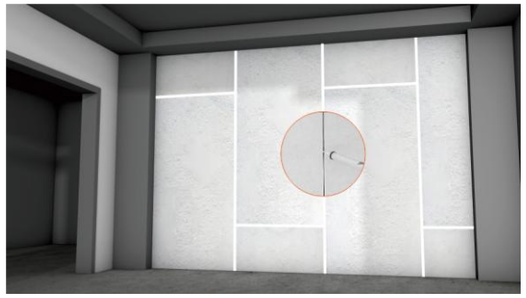
Step 1



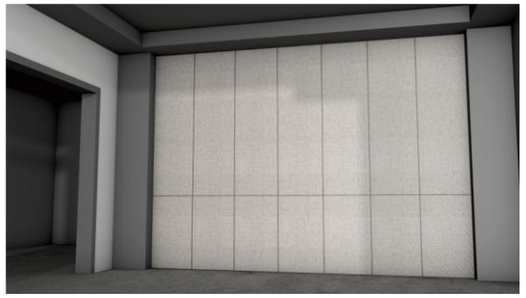
Step 2



Step 3



Step 4



Step 5

Step 6

It is suitable to use calcium silicate plate with a thickness of 9mm for the substrate and calcium silicate plate with a thickness of 9mm for the panel. The weight of the wall reinforced sound insulation structure is less than 50kg/m2. Suitable for steel keel or wood keel with bearing quality; It is more ideal for the structural cavity to be filled with acoustic cotton, the joint installation between the substrate and the panel is beneficial to the structural strength and reduce the sound leakage of the gap, and the gap between the plates is filled with G600 sound insulation damping sealant. The thickness of the sound insulation structure of the wall shall be increased ≤75mm.

## WALL SOUND INSULATION SCHEME

Maximize the use of space, OFF the light wall sound insulation structure, break through the light wall light and sound insulation can not belt hurts to have both

### OPTION TWO

Light partition wall sound insulation structure



Product name

Acoustic cotton absorbent

Product model

BE500

Product Specifications

W495xH495xT25mm

Product weight

500g/$m^2$

Inside there are a large number of tiny connected pores, along which sound waves can penetrate deep into the material, friction with the material to convert sound energy into heat.It is a porous sound absorption material, and the sound absorption characteristic is that the sound absorption coefficient gradually increases with the increase of frequency, which means that the low frequency absorption is not as good as the high frequency absorption. The necessary conditions for sound absorption of porous materials are: the material has a large number of pores, the pores are interconnected, and the pores are deep inside the material.



Product name

Calcium silicate soundproof panel

Product model

G600

Product Specifications

1200x2400x10mm

Product weight

28kg/$m^2$

The calcium silicate sound insulation board is composed of the calcium silicate board on the top, the middle damping sound insulation felt and the bottom calcium silicate board. The damped sound insulation felt is a kind of polymer sound insulation felt with high performance, high quality and excellent transmission loss. Using new environmentally friendly raw materials, halogen-free renewable polymer as raw materials, green environmental protection, free of formaldehyde, benzene, asbestos and radioactive substances and other harmful ingredients.Making full use of the quality laws of building acoustic materials, the damped sound insulation felt can effectively absorb the noise transmitted by the partition through the building structure of walls, ceilings and floors. Strong damping and surface density can greatly improve the volume insulation of the raw material. Sandwich composite without substrate, wooden board, etc., the sound insulation of the composite structure can reach 10-29dB.



Product name

Sound insulation damping sealant

Product model

G600

Product Specifications

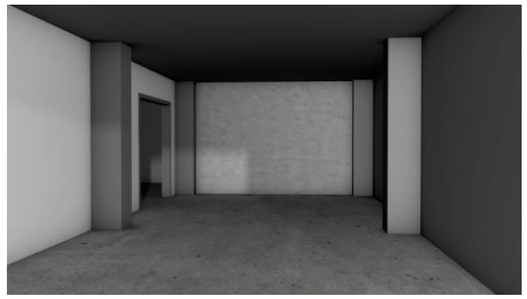
300x50mm

Product weight

600ml

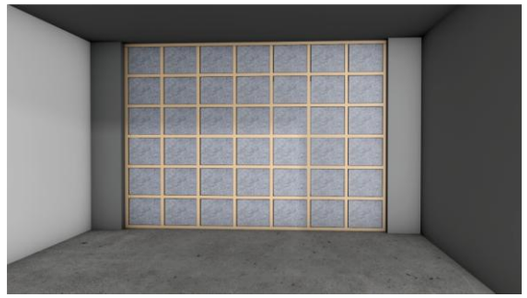
Product features Effectively used in plate type inorganic material joint sealing and metal rubber and other materials damping vibration reduction fixed. Non-corrosive to organic, inorganic materials and metal, rubber, excellent aging resistance, good adhesion to a variety of substrates, moisture resistance and high and low temperature adaptability (-20°C~100°C temperature difference range), stable and reliable performance. It is suitable for filling and sealing the installation joint of the sound insulation structure plate to prevent air leakage, adding glue to the contact surface of the metal keel and the substrate to increase the damping effect and reduce the structural resonance, and fixing the laying position of the ground vibration damping glue.

## Installation method

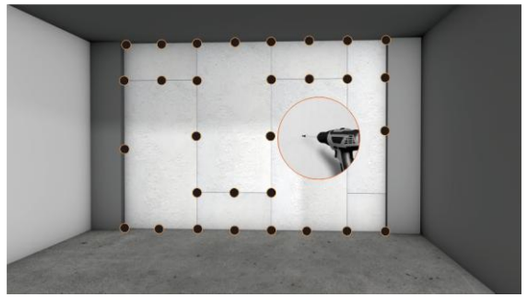




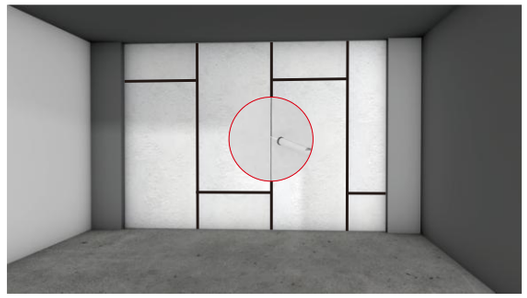
Step 1



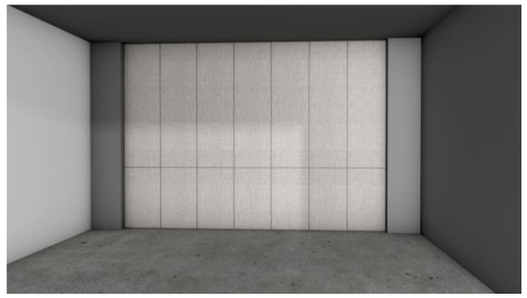
Step 2



Step 3



Step 4



Step 5

Step 6

The bidirectional substrate is suitable for calcium silicate plate with a thickness of 9mm, and the bidirectional panel is suitable for calcium silicate plate with a thickness of 9mm. The weight of the sound insulation structure of the light partition wall is less than 100kg/m2, which is suitable for the steel keel conforming to the national standard;It is more ideal for the structural cavity to be filled with acoustic cotton, the joint installation between the substrate and the panel is beneficial to the structural strength and reduce the leakage sound of the gap, and the gap between the board is filled with G600 sound insulation sealant. The sound insulation structure thickness of the wall is less than 120mm.