



## Contemporary Hall Design Waterproof Fiber Cement 12mm Perforated MDF Acoustic Panels

### Our Product Introduction

#### Basic Information

- Place of Origin: Guangdong, China
- Brand Name: MQ Acoustics
- Model Number: Micro-perforated Acoustic Panel
- Minimum Order Quantity: 100 square meters
- Price: \$29.99/square meters 100-199 square meters
- Packaging Details: Carton Box, Pallet
- Supply Ability: 5000 Square Meter/Square Meters per Month



#### Product Specification

- Warranty: 1 Year
- After-sale Service: Online Technical Support, Return And Replacement, Other
- Project Solution Capability: Total Solution For Projects, Others
- Application: Hall
- Design Style: Contemporary
- Model NO.: Micro-perforated Acoustic Panel
- Edge: Square
- Color: Customized
- Core Material: Normal MDF, E1 MDF, Fr MDF, MGO, Solid Wood
- Hole Diameter: 0.5-1.0 Mm
- Installation Accessories: Steel Keel
- Transport Package: Carton Box, Pallet
- Trademark: MQ Acoustics
- HS Code: 4414140000



#### More Images



## Product Description

### Products Description

Micro-perforated acoustic panels represent an advanced sound-absorbing technology featuring a unique composite hole structure. These panels are characterized by precisely engineered front holes measuring 0.5-1mm in diameter. The sophisticated design works on the principle of sound energy dissipation - as sound waves enter the microscopic perforations, they undergo repeated friction and collision within the intricate pore structure, effectively converting acoustic energy into thermal energy.

The perforations are so minute (typically less than 1% perforation rate) that they remain virtually invisible to casual observation, preserving the panel's aesthetic appeal while providing exceptional acoustic performance. This micro-perforation technology offers particularly effective sound absorption in the mid- to low-frequency ranges (typically 250-2000Hz), where conventional porous absorbers often underperform.

|                      |                                   |
|----------------------|-----------------------------------|
| <b>Material</b>      | <b>MDF</b>                        |
| <b>Hole diameter</b> | <b>0.5 mm-1 mm</b>                |
| <b>Pattern</b>       | <b>Customization is available</b> |
| <b>Back finish</b>   | <b>Black felt</b>                 |

### Details Images

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# Micro-perforated Acoustic Panel

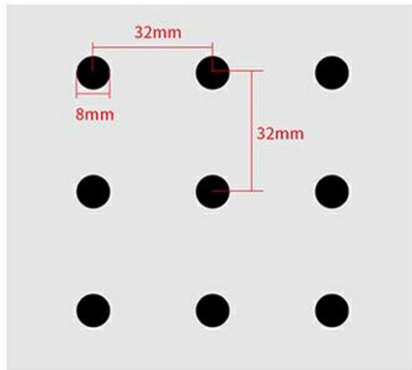
Purify the mind Solve the  
sound problems such as echo



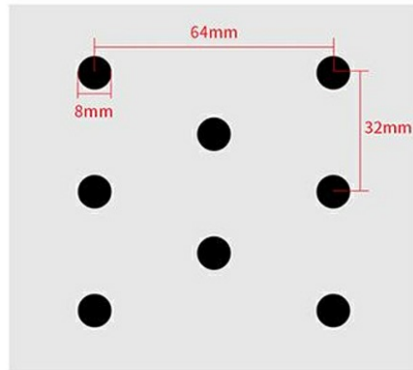
# Specifications



- ① Basic Material: E1 MDF, FR MDF, Black MDF
- ② Front Finish: Melamine, Veneer, Paint, HPL
- ③ Back Finish: Black Felt
- ④ Size: L600xW600mm, L1200xW600mm
- ⑤ Thickness: 12/15/18 mm
- ⑥ Formaldehyde Emission: Can meet both China&EU Standard Class E1
- ⑦ Flame Retardant: Can meet China Standard Class B, BS476 Part 7 Class1, EN13501 Class B etc.
- ⑧ Hole Diameter: 0.5-1.0mm



E-Perforation



V-Perforation

# Surface and Colors



- ① Melamine/ HPL: Pure colors and wooden grain are both available.
- ② Veneer: Normally the veneer is divided into natural veneer and technical veneer and the varnish can be UV or PU painting.
- ③ Paint: Colors can be customized according to Pantone or RAL color number. But there will be slight color difference in each batch.

## COLORS

Pure Colors



Wood Grain



The above is a part of the colors. Please send enquiries for more colors available.

# Product Details

We focus on detail improvement

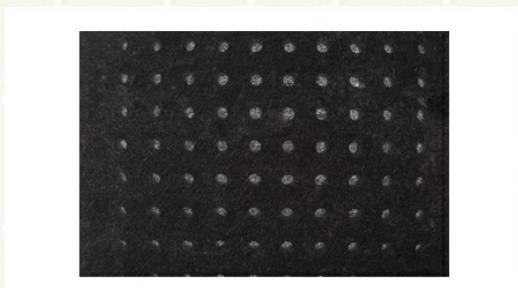


## High Density Base Material

Special selection of high quality MDF panel. The wood fiber is uniform and meticulous makes the panel durable with high strength.

## Smooth Surface

The self-improved veneer laminating technology makes the veneer and the substrate better laminating, the surface is smooth and beautiful, not easy to crack and deformation, and the service life is long



## Black Acoustic Felt

High quality black acoustic felt on the back side of the panel makes the acoustic performance better and prevent the padding coming out from the panel.

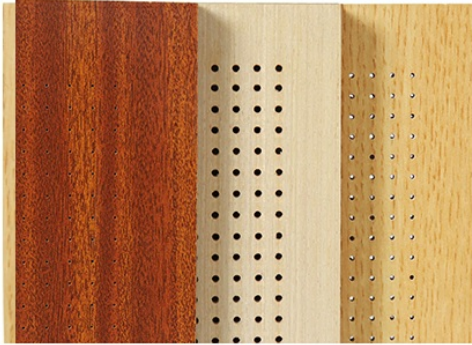
## Precise Cutting Process

The surface and the edge of the panel is clean by standardized proudction. The installation groove is accurate when install with the steel keel system.



# Product Features

## 1/ Variety Of Finishes



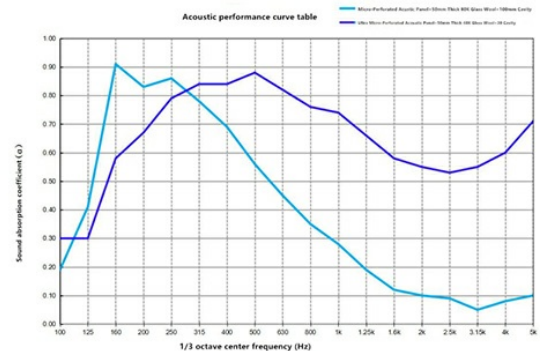
## 2/ Aesthetic Appearance



## 3/ Eco-friendly&Fire Resistant



## 4/ Excellnt Sound Absorption Performance in Low Frequency

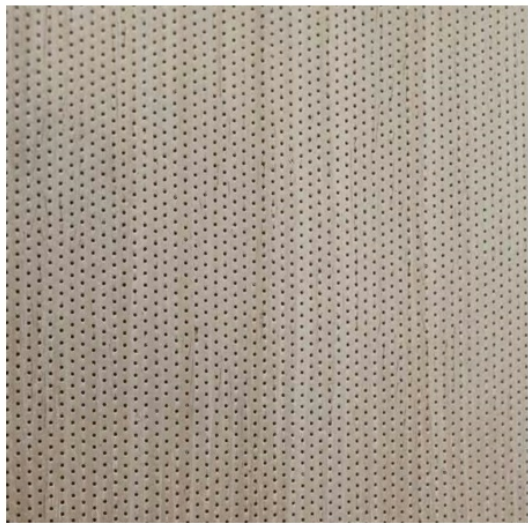
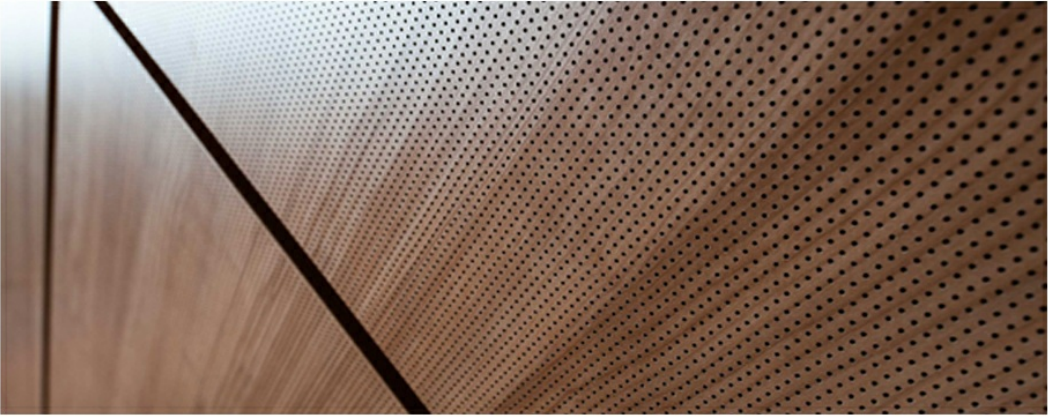


# Applications



- 1 Professional recording space: recording studios, broadcast studios, rehearsal rooms, etc.
- 2 Large-scale music space: theaters, concert halls, KTV rooms, etc.
- 3 Office space: office buildings, meeting rooms, hotels, etc.

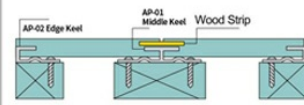
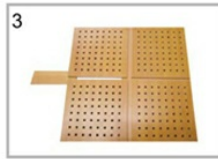
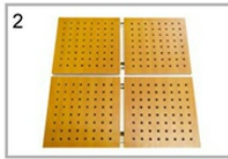
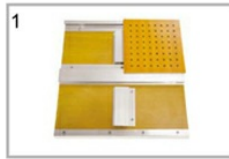




# Installation Guidance

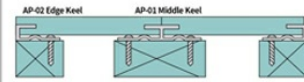


Installation System I (with gap)



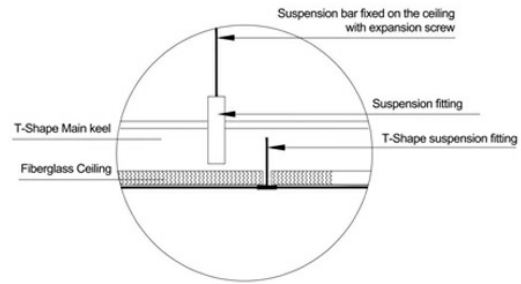
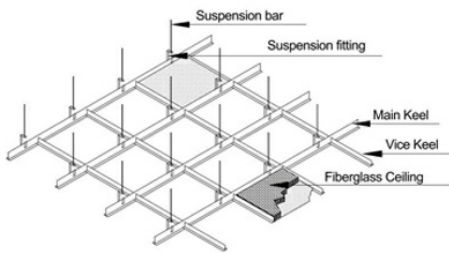
Cross-section Structure

Installation System II (without gap)



Cross-section Structure

Installation for ceiling

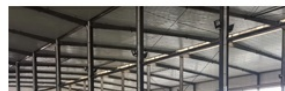


## About Us



Magic Cube (MQ) Acoustics is a professional acoustic solution provider, integrating acoustic material manufacturing, architectural acoustical environment construction and industrial noise control. We are committed to the combination of Acoustics & Aesthetic, to offering our clients the best acoustic solution with high quality acoustic material.

In order to meet the higher needs of customers, we has introduced advanced production equipment which has fully guaranteed product quality and technology. After 5 years of rapid development, we has an annual output of more than 500,000 square meters of





# CERTIFICATION

MAGIC CUBE Acoustics has focused on the R&D, production and sales of various sound absorption and sound insulation products. Our products have passed CE, ISO9001 & SGS certificate. MAGIC CUBE has more than a dozen patented acoustic technology products, and more than 30 domestic and international test reports.



## TEAM ACTIVITY



## EXHIBITION



If you need customized size / color/ pattern, please contact customer service.

## BACK TO HOME

### FAQ

#### 1. Can I get free samples and how long does it take to produce samples?

If the samples you need are in our stock, they will be provided to you free of charge. Customized samples usually take about a

week to produce.

## **2. Do you accept OEM or ODM order?**

Yes, as a manufacturer, we can produce acoustic materials based on your samples or drawings. Please do not hesitate to contact us.

## **3. How to get an accurate quotation?**

Can provide us with detailed product information, such as pattern, core material, surface, etc. If you have CAD or other drawings,

don't hesitate to send it to us.

## **4. Payment terms**

T/T 30% deposit before production, 70% balanced payment before delivery.

For more information, please feel free to contact us.



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