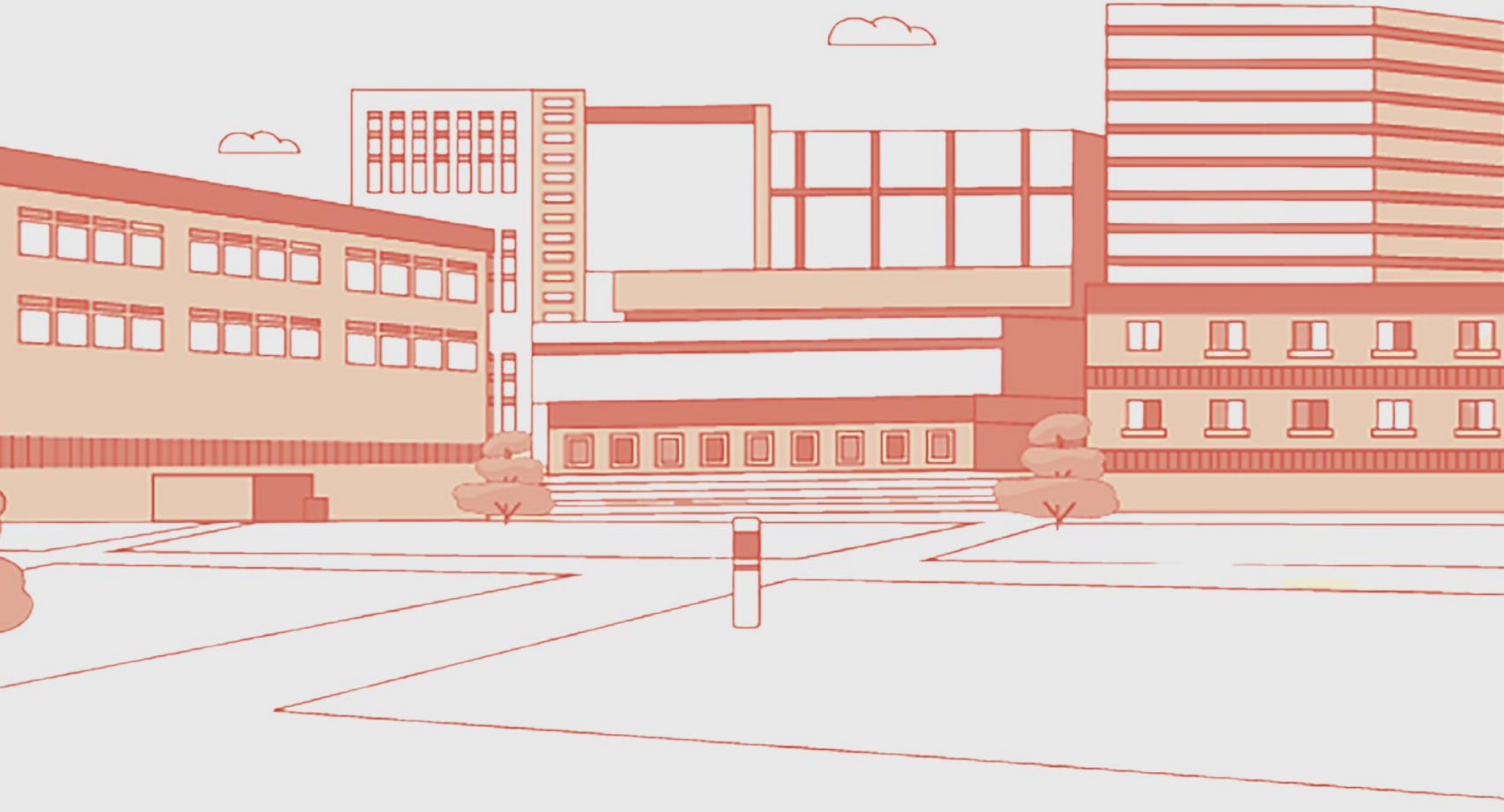
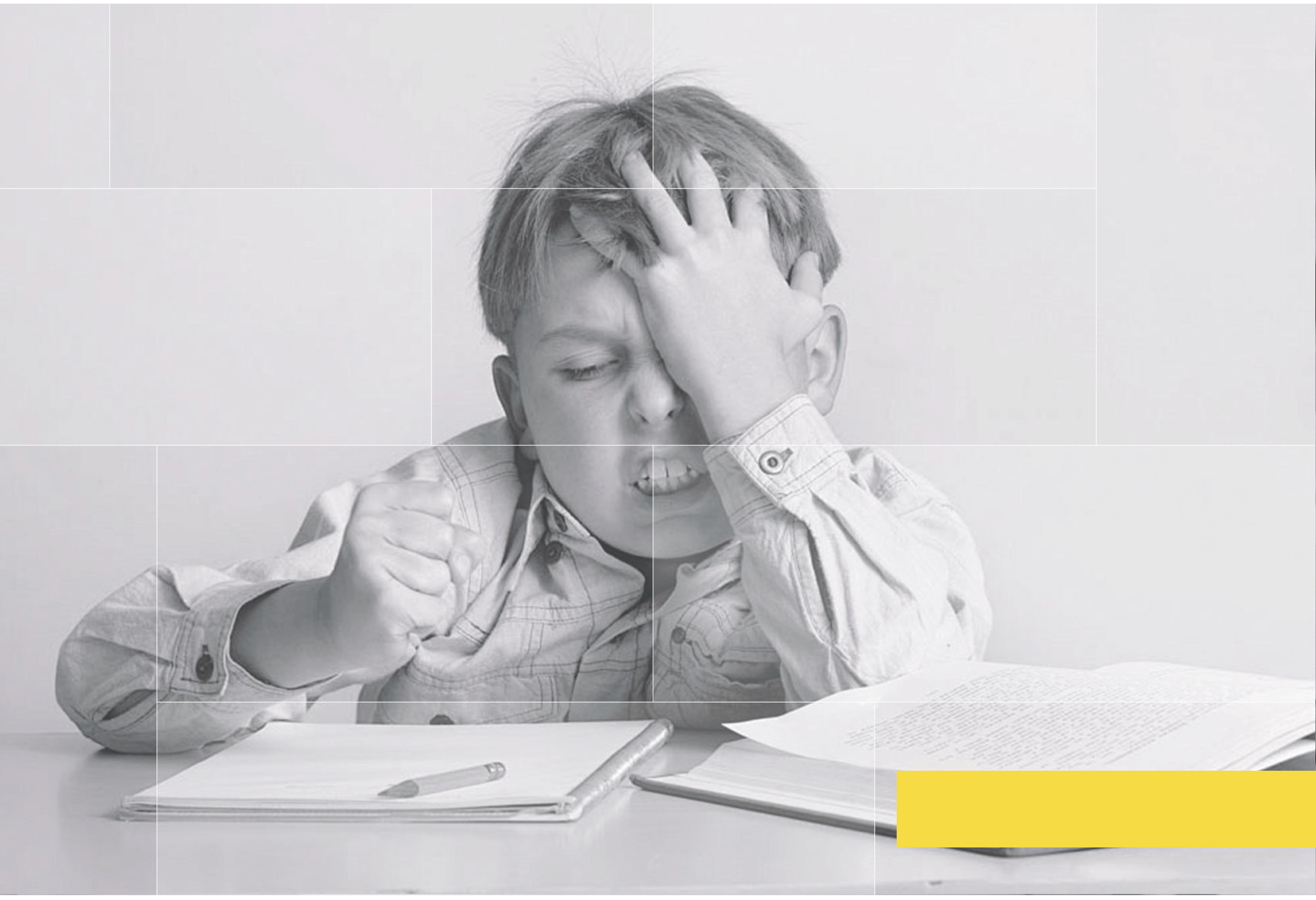
# EDUCATIONAL SPACE ACOUSTIC SOLUTIONS

SonCalm





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# The harm of "noise" to the acoustic environment of educational spaces

>>>

A healthy sound environment is conducive to the healthy growth of young people's physical and mental health, and is an important part of building a high-quality school environment, so that every student can get equal opportunities to receive classes. Students and teachers spend 6-8 hours in school on weekdays, and the acoustic environment has a direct impact on their teaching effectiveness and physical and mental health. In traditional classrooms, there are often sound defects such as long reverberation and echo, and the sound signals emitted by the teacher will overlap through the reflection of the wall, and the more severe the reverberation, the more overlapping the sound signals are, and the more difficult it is for students to distinguish the sound. However, since reverberation has nothing to do with the surrounding environment of the classroom, even if the surrounding environment is quiet, it still has an impact on the actual teaching and learning.

A study in Florida, USA, showed that in an old-fashioned classroom with no acoustic treatment, when students sat in the fourth row, speech intelligibility was only 50 percent, and students missed one out of every two words. This meant that students behind the fourth row had to work harder to understand the story. However, in a teaching environment where the reverberation is too long, it is not only the students who are affected. A study from the University of Bremen in Germany found that the average decibel level of noise in classrooms was 65 dB. The German Committee of Environmental Experts has shown that 65 dB is the risk threshold for myocardial infarction. In such a noisy environment, teachers have to raise the volume of the lesson to make the students hear. As the decibel level of the sound increases, so does the teacher's heart rate, and the risk of myocardial infarction increases.

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# “SONOCALM”
# Empower Modern Education

With the development of educational changes, modern education emphasizes diversified teaching and learning, including online teaching and blended learning. In these teaching modes, a good teaching sound environment is needed to ensure sound quality so that distance learning students can have an experience similar to on-site learning. In the future, technologies such as virtual reality (VR) and augmented reality (AR) will be widely used in education, and these technologies require high-quality sound environments to support immersive learning experiences.Translated with DeepL.com (free version).

A good teaching sound environment plays a crucial role in modern education, which can improve concentration and learning efficiency, promote hearing and language development, enhance classroom interaction and participation, support diversified teaching modes, provide learners with a better learning experience, promote the absorption and memorization of knowledge, and thus improve the overall quality of education. The sound environment is influenced by internal and external noise sources, indoor acoustics, architectural design, sound reinforcement equipment and many other aspects. It requires long-term and multi-dimensional efforts to create a better sound environment.Translated with DeepL.com (free version).

Good acoustic environment




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# CONTENTS

01


REGULAR CLASSROOMS

Regular classrooms 05

Lecture theatre 06

Boutique recording studio 07

Multimedia classrooms 09


02


MUSIC CLASSROOM 11


03


DANCE CLASSROOM 17


04


REHEARSAL HALL 23


05


LIBRARY 29


06


LECTURE HALL&THEATER 33


07


GYMNASIUM 39


08


CANTEEN &CORRIDOR 43

# 01

# REGULAR CLASSROOMS SOLUTIONS









Acoustic Analysis:

Classroom as an important place for students to learn knowledge, to ensure the clarity of the language in the classroom is the most basic requirements, coupled with the continuous upgrading of modern teaching equipment and electro-acoustic systems and smart classroom systems into the classroom acoustic environment for the higher requirements. The large glass windows and glossy walls in the architectural design are very easy to form an unscientific sound field, which not only makes it difficult for the teacher to teach, but also makes it difficult for the students to hear clearly and concentrate their attention.

**The improvement of the acoustic environment in the regular teaching room mainly focuses on controlling the reverberation time and homogeneous sound field to ensure the intelligibility of the language:**

1. Acoustics both beautiful and practical, mainly ceiling acoustic treatment, the installation of suspended acoustic modules, can effectively reduce the reverberation time of the space, improve the clarity of the teacher's language in class. Convenient installation advantages and colorful finishes more in line with the classroom design style requirements, lightweight high-strength metal molding frame completely solve the resin curing frame is not standard, not environmentally friendly, non-flame-retardant and humid moldy deformation and other issues, change the curing frame sacrificed more than 10% of the technical and acoustic defects in sound absorption.
2. The wall can be properly installed with a sound-absorbing module, which can effectively eliminate the parallel reflection sound defects generated by the parallel wall and optimize the reverberation time in the classroom.



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# PRODUCT
## INFORMATION

| Name | Model | Specification | Weight | Weight(Color Chart Reference) |
|---|---|---|---|---|
| Matrix Acoustic Baffle | MA30/MA50 | W600 * L1200/1800/2400 * D32/52mm | 3.75kg/m$^2$ / 7kg/m$^2$ |  |



It is a horizontal installation model, with a unique space sandblasted aluminum metal texture, an acoustic cloth cover process, and a non-equivalent blocking absorption surface on the back. The matrix not only efficiently absorbs the direct sound from the space, but is also an advantageous absorption structure for low-frequency standing waves in the subspace of the ceiling. , is a high-efficiency broadband sound capture product that integrates into diverse environments.

| Name | Model | Specification | Weight | Weight(Color Chart Reference) |
|---|---|---|---|---|
| Matrix Acoustic Baffle | MA30&/MA50& | W600 * L1200/1800/2400 * D30/50mm | 3.75kg/m$^2$ / 7kg/m$^2$ |  |



Base material: Eco-friendly white Acoustic fiber glass(zero formaldehyde emission) facing: Flame-retardant acoustic fiberglass fabric

It is a horizontal installation model, with a unique space sandblasted aluminum metal texture, an acoustic cloth cover process, and a non-equivalent blocking absorption surface on the back. The matrix not only efficiently absorbs the direct sound from the space, but is also an advantageous absorption structure for low-frequency standing waves in the subspace of the ceiling. , is a high-efficiency broadband sound capture product that integrates into diverse environments.

| Name | Model | Specification | Weight | Weight(Color Chart Reference) |
|---|---|---|---|---|
| Fabric acoustic panel | CM30E/60E/120E (Right angle)<br>CM30ET/60ET/120ET (Chamfer) | W&L : 300*300/600/1200mm<br>600*600/1200/1800mm<br>D : 30/60/120mm | – |  |



Base material: customized inorganic acoustic glass fiber(white in color) Finish: Acoustic cloth(Grade A/B/C)/Imagine Spray painting

Patented easily mounting solution; Zero formaldehyde emission meets International Enf standard; This new design functions much better than the older type by the more precise frame, Eco-friendly, flame retardant and moisture proofing. M-softpack solves the older type whose sound absorbing function is sacrificed at least 10% because of the resin solidified frame.

| Name | Model | Specification | Weight | Weight(Color Chart Reference) |
|---|---|---|---|---|
| Magic block acoustic panel | MD48-300/600/1200 | W300*L1200*D50mm<br>L600*W600*D50mm<br>W600*L1200*D50mm | 1.5kg/m$^2$ |  White Black |



Base material: Eco-friendly white Acoustic fiber glass(zero formaldehyde emission)
facing: White/Black non-inflammable acoustic fiberglass cloth
Inner fit with broad band green sound absorptive wool, Airtight sound absorption felt; Non-inflammable, water proof, sound absorption fabric.



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Product Applications

| | | | Modle | Size | Color | QTy |
|---|---|---|---|---|---|---|
|  | ceiling | Matrix Acoustic Baffle | MA30 | 600*1200*32mm | 14-101B | 24 PCS |
| | | | MA30 | 600*1200*32mm | 14-102B | 12 PCS |
|  | wall | Matrix Acoustic Baffle | MA50 | 600*1200*52mm | 14-101B | 2 PCS |
| | | | MA50 | 600*1200*52mm | 14-102B | 6 PCS |

(500Hz~1000Hz) :≤200m³/≤0.8s







Product Applications

| | | | Modle | Size | Color | QTy |
|---|---|---|---|---|---|---|
| | ceiling | | | | | |
|  | Matrix Acoustic Baffle | | MA30 | 600*1200*32mm | 15-0901L | 30 PCS |

(500Hz~1000Hz) :≤200m³/≤0.8s







Product Applications

| | | | Modle | Size | Color | QTy |
|---|---|---|---|---|---|---|
| | ceiling | | | | | |
|  | Matrix Acoustic Baffle | | MA30 | 600*1200*32mm | Natu-01 | 30 PCS |

(500Hz~1000Hz) :≤200m³/≤0.8s



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Product Applications

| | | Modle | Size | Color | QTy |
|---|---|---|---|---|---|
| ceiling | Matrix Acoustic Baffle | MA30& | 600*1200*30mm | 14-14 | 48 PCS |
| wall | Matrix Acoustic Baffle | MA50 | 600*1200*52mm | 14-102B | 9 PCS |
| | | MA50 | 600*1200*52mm | 14-14 | 4 PCS |

(500Hz~1000Hz) : > 300m³/≤0.8s







Product Applications

| Name | Modle | Size | Color | QTy |
|---|---|---|---|---|
| ceiling<br>Matrix Acoustic Baffle | MA50 | 600*1200*52mm | 14 113<br>14-114 | 32 PCS<br>19 PCS |

(500Hz~1000Hz) :≤300m³/≤0.6s







Product Applications

| | Modle | Size | Color | QTy |
|---|---|---|---|---|
| ceiling<br>Matrix Acoustic Baffle | MA50 | 600*1200*52mm | 14-101B | 48 PCS |

(500Hz~1000Hz) :≤300m³/≤0.6s



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# LECTURE THEATRE



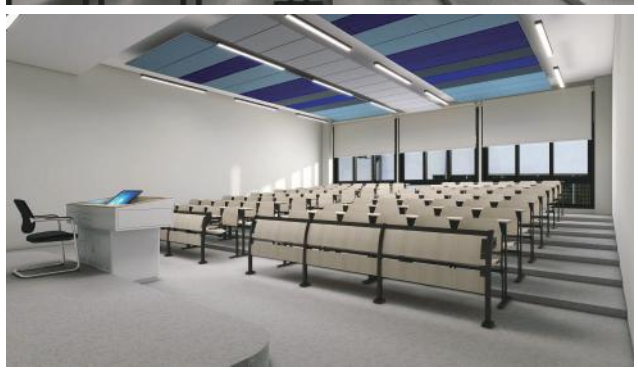



**Product Applications**

| | Modle | Size | Color | QTy |
|---|---|---|---|---|
| ceiling | | | | |
| | Matrix Acoustic Baffle | | | |
|  | MA30 | 600*1800*32mm | HY2053-23 | 14 PCS |
| | | | HY2053-24 | 14 PCS |
| | | | HY2053-18 | 9 PCS |

(500Hz~1000Hz) : > 200m³/≤1s



**Product Applications**

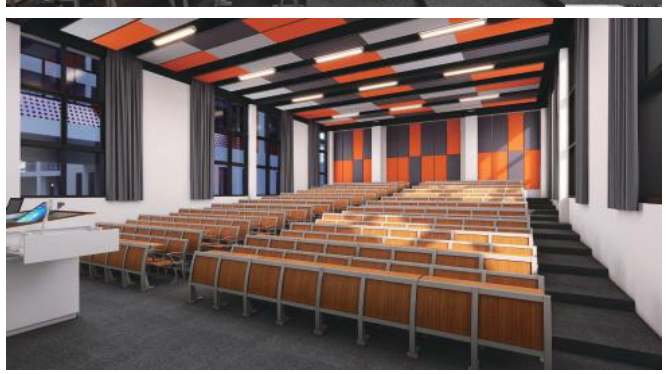
| | Modle | Size | Color | QTy |
|---|---|---|---|---|
| ceiling | | | | |
| | Matrix Acoustic Baffle | | | |
|  | MA30 | 600*1200*32mm | HY2053-23 | 28 PCS |
| | | | HY2053-24 | 8 PCS |
| | | | HY2053-25 | 16 PCS |
| | | | HY2053-16 | 13 PCS |

(500Hz~1000Hz) : > 200m³/≤1s



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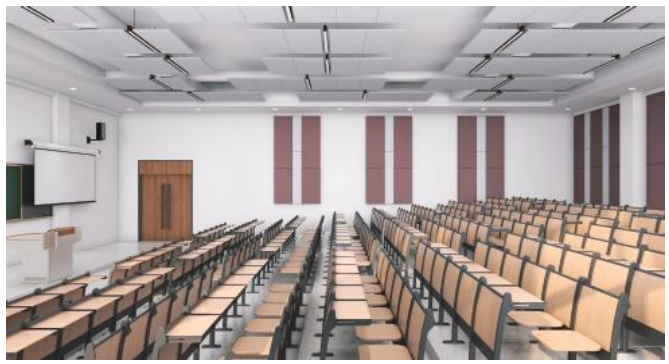


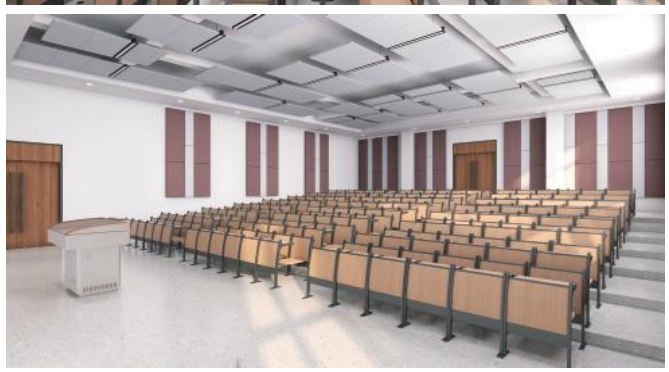



## Product Applications

| | Modle | Size | Color | QTy |
|---|---|---|---|---|
| ceiling | | | | |
| | Matrix Acoustic Baffle | | | |
|  | MA30 | 600*1800*32mm | 15-7501L | 22 PCS |
| | | | 15-0701L | 23 PCS |
| | | | 15-1302L | 19 PCS |
| wall | | | | |
| | Fabric acoustic panel | | | |
|  | CM60E | 600*1500*30mm | 15-7501L | 14 PCS |
| | | | 15-1302L | 14 PCS |

(500Hz~1000Hz) : > 200m³/≤1s



## Product Applications

| | Modle | Size | Color | QTy |
|---|---|---|---|---|
| ceiling | | | | |
| | Matrix Acoustic Baffle | | | |
|  | MA30 | 600*1200*32mm | 14-101B | 91 PCS |
| wall | | | | |
| | Fabric acoustic panel | | | |
|  | CM30ET | 600*1200*30mm | 14-114 | 16 PCS |
| | | 600*1800*30mm | 14-114 | 16 PCS |
| | | 300*1200*30mm | 14-101B | 11 PCS |
| | | 300*1800*30mm | 14-101B | 11 PCS |

(500Hz~1000Hz) : > 200m³/≤1s



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**Product Applications**

| | | Modle | Size | Color | QTy |
|---|---|---|---|---|---|
| | ceiling | | | | |
|  | Matrix Acoustic Baffle | MA30 | 600*1200*32mm | 14-101B | 50 PCS |
| | wall | | | | |
|  | Fabric acoustic panel | CM60ET | 600*1200*60mm | 14-101B | 8 PCS |
| | | | 300*1200*60mm | 14-107 | 4 PCS |
| | | | 600*1200*60mm | 14-107 | 4 PCS |

(500Hz~1000Hz) :≤300m³/≤0.5s













**Product Applications**

| | | Modle | Size | Color | QTy |
|---|---|---|---|---|---|
| | ceiling | | | | |
|  | Matrix Acoustic Baffle | MA30 | 600*1200*32mm | 15-9501L | 28 PCS |
| | | | | 15-0901L | 53 PCS |
| | wall | | | | |
|  | Fabric acoustic panel | CM30ET | 600*1200*30mm | 15-0901L | 48 PCS |

(500Hz~1000Hz) :≤500m³/≤0.5s



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## Product Applications

| | | Modle | Size | Color | QTy |
|---|---|---|---|---|---|
|  | ceiling<br>Magic block acoustic panel | MD48-1200 | 600*1200*50mm | Black | 21 PCS |
|  | wall<br>Fabric acoustic panel | MA30 | 600*1800*32mm | HY2053-15<br>HY2053-17 | 6 PCS<br>43 PCS |

(500Hz~1000Hz) :≤300m³/≤0.4s













## Product Applications

| | | Modle | Size | Color | QTy |
|---|---|---|---|---|---|
|  | ceiling<br>Matrix Acoustic Baffle | MA30 | 600*2400*32mm<br><br>600*1200*32mm | HY2053-23<br>HY2053-18<br>HY2053-18 | 16 PCS<br>16 PCS<br>12 PCS |
|  | wall<br>Matrix Acoustic Baffle | MA50<br>MA30 | 600*1200*52mm<br>600*1200*32mm | HY2053-23<br>HY2053-18 | 19 PCS<br>20 PCS |

(500Hz~1000Hz) :≤500m³/≤0.5s



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# 02

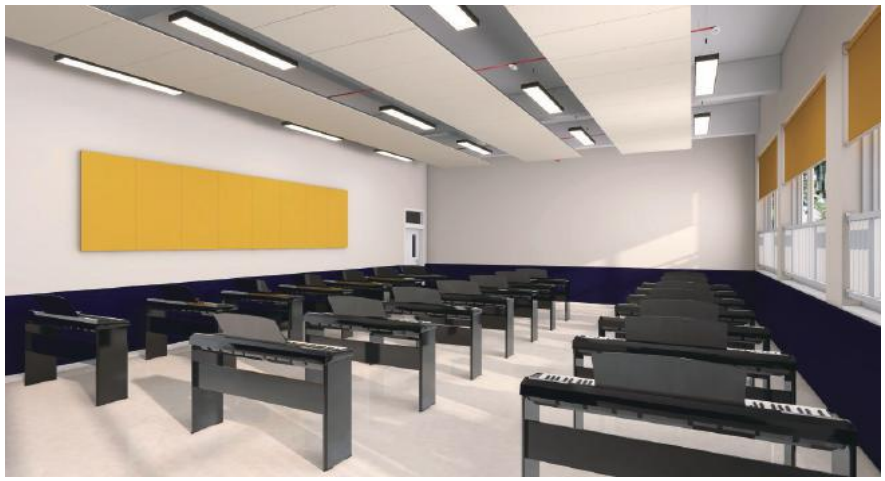
# MUSIC CLASSROOM SOLUTIONS



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Acoustic Analysis:

The principle of acoustic design for music classrooms is to create a sound field environment that is both suitable for music teaching and performance and reduces noise interference. This requires a balance of sound absorption, sound insulation, diffusion and noise control, etc. If the space lacks acoustic construction, it will produce reverberant sound that affects listening and recognition, as well as sound field defects such as fluttering echoes, which reduces the clarity and quality of the music sound, thus affecting the effect of the lessons on teachers and students and the normal demands of the lessons.

The key points of acoustic treatment in the music classroom:

Walls and ceilings, combination of sound absorption and diffusion, with low-frequency absorption treatment.

1. Install tuning plates and diffusion materials on the wall to balance the sound field, absorb sound and take into account sound diffusion treatment, greatly improve the clarity and quality of music sound, and ensure the effect of music education.
2.Installation of acoustic baffles or acoustic soft packages in the ceiling to reduce reverberation time at the same time, to ensure that the language is clear, fullness of sound, into the aesthetic decorations, and effective control of echoes, multiple echoes, fluttering echoes, acoustic focusing and other sound defects.

# PRODUCT
## INFORMATION



| Name | Model | Specification | Weight | Weight(Color Chart Reference) |
|---|---|---|---|---|
| Commercial acoustic door | G50S | : H2200 * W900 * D120/388mm<br>: H2165 * W842 * D50mm | 104kg |  |



Product features: 50mm thick carbon-plastic composite soundproof door page/servo telescopic carbon-plastic door frame/flame retardant soundproof door core/graphene thermal expansion smoke barrier seal/Diagonal magnetic sound insulation rubber strip / silent door lock / automatic sound brake / rectangular aluminum frame hollow sound insulation observation window.
Finish: Plain Water Paint / Korean PP Anti-Stain and Anti-Scratch Finish
Sound insulation description: The sound insulation parameters of the product are the test results of the room laboratory method, and the sound transmission of the non-standard installation or space structure will affect the performance of the product.



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# PRODUCT
## INFORMATION



| Name | Model | Specification | Weight | Weight(Color Chart Reference) |
|---|---|---|---|---|
| Matrix Acoustic Baffle | MA30/MA50 | W600 * L1200/1800/2400 * D32/52mm | 3.75kg/m² / 7kg/m² |  |

Base material: Eco-friendly white Acoustic fiber glass(zero formaldehyde emission) facing: Flame-retardant acoustic fiberglass fabric

It is a horizontal installation model, with a unique space sandblasted aluminum metal texture, an acoustic cloth cover process, and a non-equivalent blocking absorption surface on the back. The matrix not only efficiently absorbs the direct sound from the space, but is also an advantageous absorption structure for low-frequency standing waves in the subspace of the ceiling. , is a high-efficiency broadband sound capture product that integrates into diverse environments.



| | | | |
|---|---|---|---|
| Customized shape fabric acoustic panel | MT30R/MT60R | Φ600/900/1200mm D30/60mm |  |

Base material: Eco-friendly white Acoustic fiber glass(zero formaldehyde emission)
facing: Acoustic cloth(Grade A/B/C)/Imagine Spray painting
Patented easily installed solution; Up to International Enf standard; This new design functions much better than the old softpack with more standard frame, Eco-friendly, flame retardant and moisture proofing.



| | | | | |
|---|---|---|---|---|
| W-absorber | EQ30/EQ60/EQ120 (T/TD) | W&L:300*1200/1500mm<br>600*600/1200/1500/1800mm<br>D:30/60/120mm | EQ30≤4.8Kg/m²<br>EQ60≤7.0Kg/m²<br>EQ120≤13.0Kg/m² |  |

Base material:100% eco-friendly acoustic composite fiber wool
facing: SF-series, UA-series, YC-series, XY-series fabric acoustic cloth surface finishing
Since our product is designed in modular form, we can configure it different combinations and able to strike a balance between space aesthetics and acoustic.
Walleasear able to absorbs sound in all frequency, being able to form either a diffusing wall or low frequency trap easily.



| | | | | |
|---|---|---|---|---|
| Diffuser | CLOUD 2C / CLOUD 2C-LED | W600*L600*D90mm | CLOUD 2C: 5.6kg/pcs<br>CLOUD 2C-LED: 6.2kg/pcs |  |

CLOUD2C unique acoustic characteristics and diversiÞed aesthetic decoration effects of cloud diffusers can effectively improve the sound Þeld environment and create a good sound diffusion system. The sound is richer, more balanced, and more spacious, and the space shape of the starry sky greatly increases the viewing atmosphere. The CLOUD2C-LED has a built-in 5W low-energy blue LED light source, which effectively improves the music quality and creates a dreamy effect scene.



| | | | | |
|---|---|---|---|---|
| Diffuser | WAVE 600 | H1800/1500/1200/600 * W600 * D160mm | H1800≤28Kg, H1500≤23kg<br>H1200≤19kg, H600≤9.5Kg |  |

Base material:Carbon-plastic composite
facing: Heating compound pp veneer

Three wave-shaped diffusion with superimposed double-range bands. it has the function of sound absorption with 20% asymmetric design. It built-in low-frequency absorption cavities with three unequal volumes. To absorbing 550-250Hz low frequency, it landfilled with eco-friendly acoustic material. The MLS diffuser horizontally scatters and balances the reflected sound, so as to get a more uniform sound environment without losing sound energy.



| | | | | |
|---|---|---|---|---|
| Fuseaser | D80 | H1200/1500/1800*W300*D70mm | H1200≤10kg/H1500≤12.6Kg<br>H1800≤15.1Kg |  |

Base material: rubber solid wood Finish: E0 standard environmental friendly PU finish paint

D80 has significant diffusion effect. On condition of not increasing the reverberation time, it can deal with the problem of sound dryness in small spaces effectively and improve the fullness, articulation and sense of stereophony.



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## MUSIC CLASSROOM

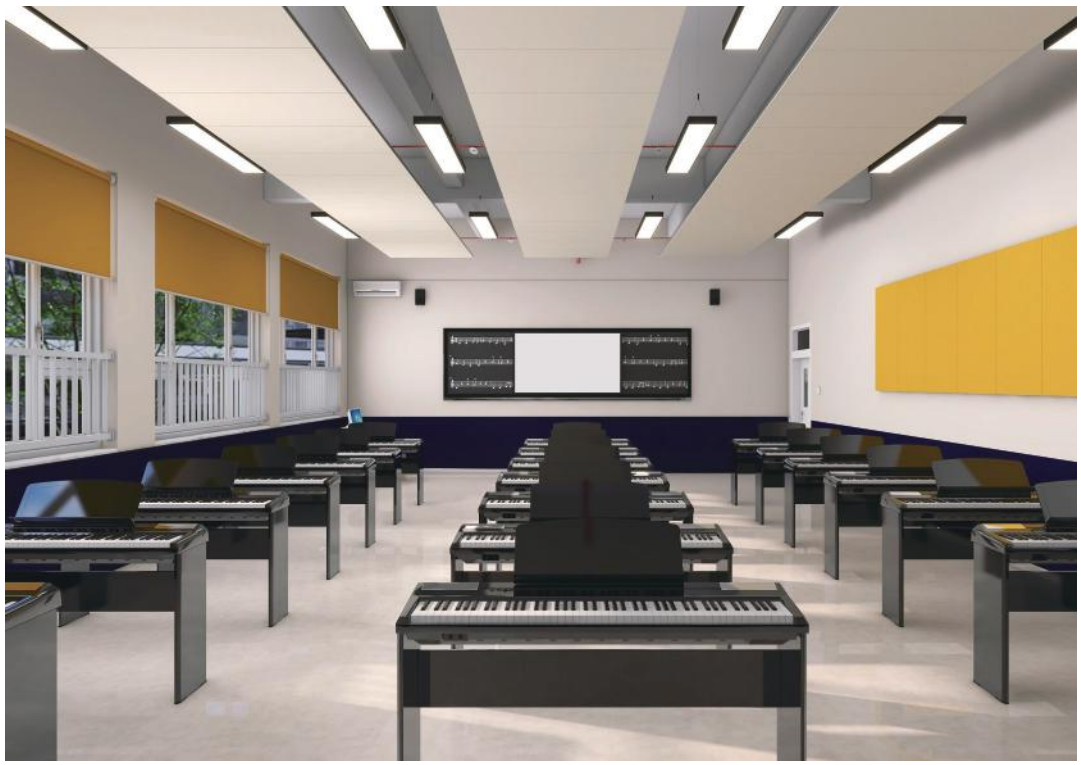




### Product Applications

| | | Modle | Size | Color | QTy |
|---|---|---|---|---|---|
| | ceiling | | | | |
|  | Matrix Acoustic Baffle | MA30 | 600*1200*32mm | 14-101B<br>14-102B | 32 PCS<br>16 PCS |
| | wall | | | | |
|  | W-absorber | EQ60T | 600*1200*60mm | 14-101B | 6 PCS |
|  | Diffuser | CLOUD 2C | 600*600*90mm | White | 24 PCS |

(500Hz~1000Hz) :≤250m³/≤0.6s





### Product Applications

| | | Modle | Size | Color | QTy |
|---|---|---|---|---|---|
| | ceiling | | | | |
|  | Matrix Acoustic Baffle | MA30 | 600*1200*32mm | 15-0901L | 45 PCS |
| | wall | | | | |
|  | Matrix Acoustic Baffle | MA50 | 600*1200*52mm | 15-9501L | 8 PCS |

(500Hz~1000Hz) :≤250m³/≤0.6s



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Product Applications

| | | Modle | Size | Color | QTy |
|---|---|---|---|---|---|
|  | ceiling | | | | |
| | Customized shape fabric acoustic panel | MT30R | Ø900mm<br>Ø1200mm | 15-1104L<br>15-0701L | 9 PCS<br>11 PCS |
|  | wall | | | | |
| | W-absorber | EQ60TD | 600*1800*60mm | SF-1233 | 16 PCS |
| | Fuseaser | D80 | 1800*300*70mm | White | 12 PCS |
|  | Commercial acoustic door | G50S | 2200 * 900 * 120/388mm | White | 1 Set |

(500Hz~1000Hz) :≤250m³/≤0.6s





Product Applications

| | | Modle | Size | Color | QTy |
|---|---|---|---|---|---|
|  | wall | | | | |
| | W-absorber | EQ60TD | 600*1800*60mm | Natu-01 | 16 PCS |
|  | Diffuser | WAVE 600 | 600*1800*160mm | Original | 8 PCS |
|  | Commercial acoustic door | G50S | 2200 * 900 * 120/388mm | Bean yellow | 1 Set |

(500Hz~1000Hz) :≤250m³/≤0.8s



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# 03

# DANCE CLASSROOM SOLUTIONS



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**Acoustic Analysis:**

Dance studios are places for dance performances and practices, and dance studios with poor acoustic environment may have the problem of excessive echo or reverberation, resulting in dancers hearing their own voices delayed or inaudible when dancing, unable to accurately perceive their own rhythm, music and movements, and easily disturbed by external noise, such as traffic noise, sounds from other classrooms, etc. This can distract the dancers and reduce their concentration and the quality of their performances.

The key points of acoustic treatment in the dance studio: ceiling sound absorption, wall auxiliary sound absorption, control the reverberation time to improve the listening environment.

1. Install acoustic baffles, soft bags and sound-absorbing magic block materials in the ceiling to effectively reduce the reflection and echo of sound, improve the clarity and audibility of sound quality, and enable dancers to better feel and express the rhythm and emotion of music.
2. Installation of acoustic panels on the walls absorbs reflected sound waves and effectively improves reverberation and excessive sound overlap within the space.

# PRODUCT
## INFORMATION

| Name | Model | Specification | Weight | Weight(Color Chart Reference) |
|---|---|---|---|---|
| Matrix Acoustic Baffle | MA30/MA50 | W600 * L1200/1800/2400 * D32/52mm | 3.75kg/m$^2$ / 7kg/m$^2$ |  |



Base material: Eco-friendly white Acoustic fiber glass(zero formaldehyde emission) facing: Flame-retardant acoustic fiberglass fabric

It is a horizontal installation model, with a unique space sandblasted aluminum metal texture, an acoustic cloth cover process, and a non-equivalent blocking absorption surface on the back. The matrix not only efficiently absorbs the direct sound from the space, but is also an advantageous absorption structure for low-frequency standing waves in the subspace of the ceiling. , is a high-efficiency broadband sound capture product that integrates into diverse environments.

| Name | Model | Specification | Weight | Weight(Color Chart Reference) |
|---|---|---|---|---|
| Fabric acoustic panel | CM30E/60E/120E (Right angle)<br>CM30ET/60ET/120ET (Chamfer) | W&L : 300*300/600/1200mm<br>600*600/1200/1800mm<br>D : 30/60/120mm | |  |



Base material: Soundbox customized inorganic acoustic glass fiber(white in color) Finish: Acoustic cloth(Grade A/B/C)/Imagine Spray painting

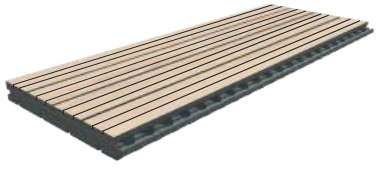
Patented easily mounting solution; Zero formaldehyde emission meets International Enf standard; This new design functions much better than the older type by the more precise frame, Eco-friendly, flame retardant and moisture proofing. M-softpack solves the older type whose sound absorbing function is sacrificed at least 10% because of the resin solidified frame.

| Name | Model | Specification | Weight | Weight(Color Chart Reference) |
|---|---|---|---|---|
| Geometric | EQ5.1R / EQ5.2R<br>EQ5.1Q / EQ5.2Q | Φ600/900mm D40mm<br>W600/900mm*H600/900mm D40mm | EQ5.1R: ≈1080g<br>EO5.2R: ≈2170g<br>EQ5.1Q: ≈1275g<br>EQ5.2Q: ≈2715g |  |

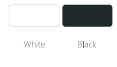


There are rules and regulations, self-contained.Rigorous functional data, easy to meet space acoustic standards.the combined material can absorb the broadband frequency perfectly. The installation is easy with standard anti-oxidization and anti-resonance treated aluminum fixing system and easy to build the acoustic environment.E0 standard eco-friendly standard with safety guarantee

| Name | Model | Specification | Weight | Weight(Color Chart Reference) |
|---|---|---|---|---|
| Carbon polymer groove panels | 6/2 9/2 14/2<br>29/3 30/2<br>60/4 124/4 | L2440*W128*D15mm | |  |



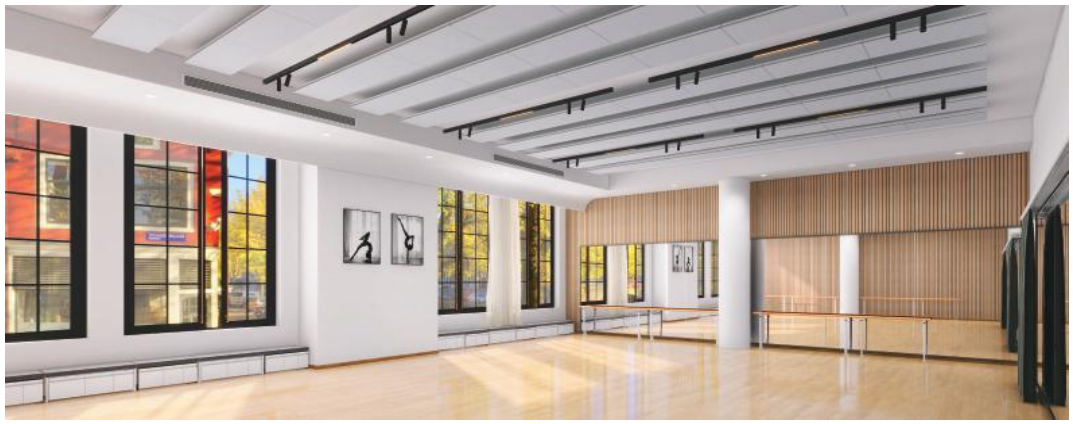
Base material: Carbon plastic board(Enf, zero formaldehyde, waterproof, fireproof)
facing: Wood Grain Surface / Skin Touch Surface
Main features: Based on scientific calculation and acoustic theories, this panel has excellent noise reduction and sound absorption performance, especially for medium and low frequencies.

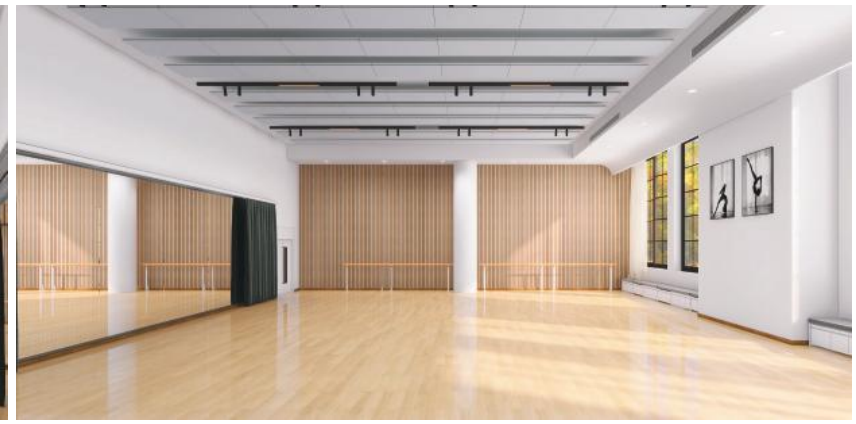
| Name | Model | Specification | Weight | Weight(Color Chart Reference) |
|---|---|---|---|---|
| Magic block acoustic panel | MD48-300/600/1200 | W300*L1200*D50mm<br>L600*W600*D50mm<br>W600*L1200*D50mm | 1.5kg/m$^2$ |  |



Base material: Eco-friendly white Acoustic fiber glass(zero formaldehyde emission)
facing: White/Black non-inflammable acoustic fiberglass cloth
Inner fit with broad band green sound absorptive wool, Airtight sound absorption felt; Non-inflammable, water proof, sound absorption fabric.

# DANCE CLASSROOM







Product Applications

| | | Modle | Size | Color | QTy |
|---|---|---|---|---|---|
| | ceiling | | | | |
|  | Matrix Acoustic Baffle | MA30 | 600*1200*32mm | 14-101B | 70 PCS |
| | wall | | | | |
|  | Carbon polymer groove panels | 30/2 | 2440*128*15mm | KY263-13-155S | 50m² |

(500Hz~1000Hz) : > 1000m³/≤1.5s







Product Applications

| | | Modle | Size | Color | QTy |
|---|---|---|---|---|---|
| | ceiling | | | | |
|  | Magic block acoustic panel | MD48-1200 | 600*1200*50mm | Black | 70 PCS |
| | wall | | | | |
|  | Fabric acoustic panel | CM30ET | ≥300*300mm<br>≤1200*2400mm | 15-0901L | 50m² |

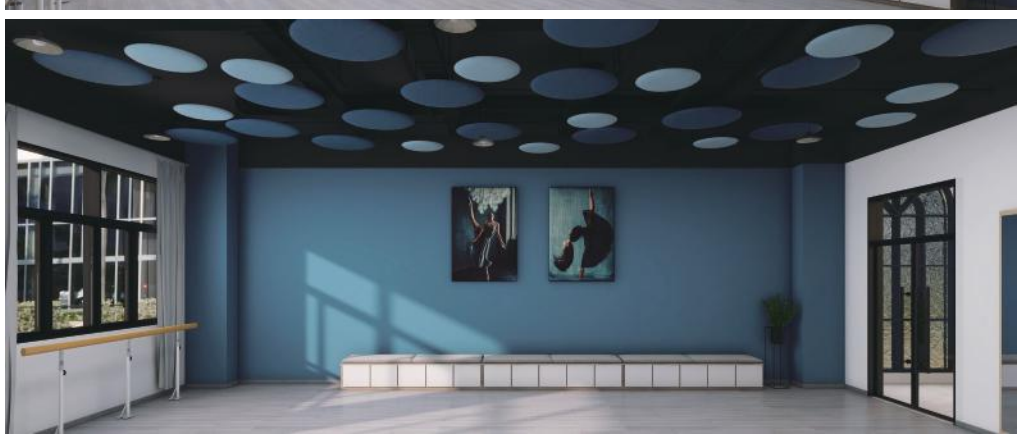
(500Hz~1000Hz) : > 1000m³/≤1.5s



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Product Applications

| | | Modle | Size | Color | QTy |
|---|---|---|---|---|---|
|  | ceiling<br>Geometric | EQ5.1R | Ø600mm D40mm | 14-102B | 17 PCS |
| | | EQ5.2R | Ø900mm D40mm | 14-103 | 25 PCS |

(500Hz~1000Hz) :≤500m³/≤1s







Product Applications

| | | Modle | Size | Color | QTy |
|---|---|---|---|---|---|
|  | ceiling<br>Geometric | EQ5.2Q | 900*900mm D40mm | SF-1200 | 40 PCS |
| | | | | SF-1209 | 42 PCS |

(500Hz~1000Hz) :≤1000m³/≤1.2s



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# 04

## REHEARSAL HALL SOLUTIONS



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## Acoustic Analysis:

Music rehearsal rooms without acoustic treatment may have sound field problems and acoustic defects such as echo and excessive reverberation, which can lead to distortion or confusion of the music. This makes it difficult for students to accurately hear their own voices and the voices of other instruments, to accurately perceive their own rhythms, intonation, and dynamics, to maintain good coordination and accuracy in their performance, and also limits their creativity and musical expression.

The focus of the acoustic treatment of the rehearsal hall: Balanced soundstage to ensure clear sound and high speech intelligibility, as well as good fullness and acoustics.

Installation of sound-absorbing products in the ceiling and walls can effectively control the reverberation time in the rehearsal hall, creating a clear and accurate sound quality of the music environment. At the same time with the use of diffusion materials, to ensure the balance of the sound, so as to obtain the appropriate reverberation effect and loudness, to increase the atmosphere and infectious force of the musical performance.

# PRODUCT
## INFORMATION

| Name | Model | Specification | Weight | Weight(Color Chart Reference) |
|---|---|---|---|---|
| Music Sound Reflection Baffle | AQ5000T / AQ5000H | AQ5000T H2500+* W2265mm/set<br>AQ5000H H6000+* W3340mm/set | – | Original |




Finish: Roller-coated wood finish on the front, back panel painted in solid color.
The music sound reflection baffle consists of two parts: the facade reflector and the top reflector, and the arc reflective index is based on MLS simulation. It is made of alloy material which is favorable for wide frequency and high efficiency sound reflection, and the structure of GEOM plate meets the demand of light weight of the module, and ensures the convenience and safety of using and storing. Flexible splicing of modules, combined with stage machinery hanging equipment for quick and easy construction and storage.

| | | | | |
|---|---|---|---|---|
| Acoustic diffuser unit | MLS800 | H1200/2400*W3100*D175mm | – | Original Redwood Walnut |



Base material:B1 fireproof high density fiber board facing: Wood veneer PU lacquer

The diffuser is calculated to improve the sound field diffusion performance. The main purpose is to obtain a diffuse sound field, which can diffuse when the wavelength of the sound wave is similar to or smaller than the size of the diffuser. At the same time, it can also avoid phenomena such as flutter and echo, which can obtain a good diffuse sound field and a clean sound. Effectively improve the fullness, clarity and three-dimensional sense of ambient sound quality

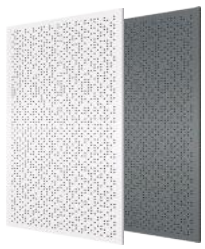
| | | | | |
|---|---|---|---|---|
| Movable Sound Reflection Baffle | AQ3500 | H3500*W1500*D800mm | 12kg/$m^2$ | White Rift Grain Oak Plain Grain Oak Cherry Walnut Dark Walnut Rift Grain Nama |



Base material:Composite honeycomb board
facing:PP/PU Matte Paint/ Wood Veneer(refer to Color Chart)
Mobile lifting structure, folding, debuggable tailboard angle, convenient mobile storage. Standard with mobile pulley device, with hand crank lift function can be adjusted according to the need for height, honeycomb core material quality is light, environmental protection and emission-free processing, easy to build a movable stage half-envelope anti-sound wall.



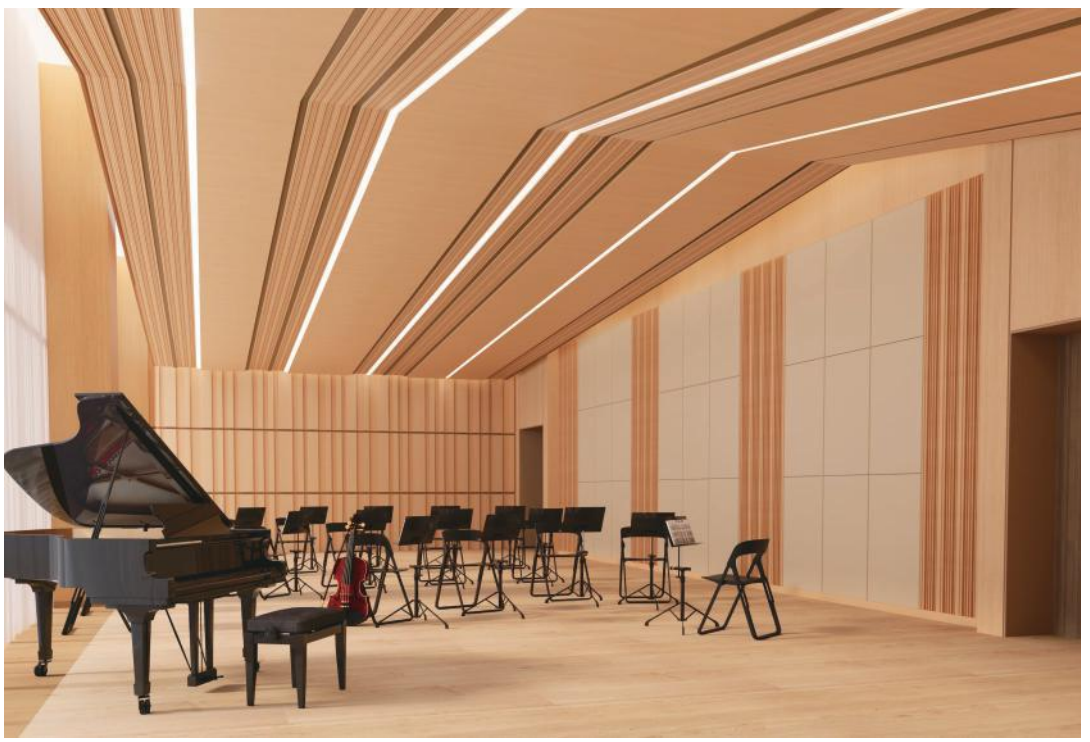
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| | Name | Model | Specification | Weight | Weight(Color Chart Reference) |
|---|---|---|---|---|---|
|  | 2D Diffusion Unit | D8 | L2440*W100*D27mm | – |   |
| | Base material: Imported beech<br>Finish: Original wood, red wood, walnut color<br>The product has good sound diffusion effect and greatly improves the reverberation time. The acoustic characteristics have reached the national standard for materials of the same kind, effectively improving the fullness, articulation and stereoscopic impression of the environmental sound. | | | | |
|  | Perforated acoustic panel | CK-1 | L300/600*W600*D6mm<br>L600*W600/1200*D8mm | – |   |
| | Base material: 8mm MGP<br>Finish: Raw board (Back cloth not included) / Eco friendly paint<br>This round holes structure is designed by acoustic theories calculation. Excellent function in medium and low frequencies | | | | |
|  | Movable Acoustic Baffle | AQ1000H/HD | AQ1000H: H2100*W800*D200mm<br>AQ1000HD: H2000*W800*D100mm | AQ1000H 28kg<br>AQ1000HD 15.5kg |   |
| | Base material:Unequal density ultra-microporous white glass fiber acoustic composite cotton, environmentally friendly and emission-free treatment.<br>facing:1)Acoustical fabric for sound absorption; 2)Diffusion side: PU Matte painting (Please refer to color chart for details)<br>Movable acoustic baffle help to control long reverberation time, fluttering echo, parallel sound reflection and standing wave in medium frequency for churches, halls, multi-functional rooms, and studio. Meanwhile, it's a quick outdoor acoustic shell solution. | | | | |
|  | Original wood sound diffuser unit | DIY300M/DIY300S | L1200/2400*W300*D100mm | - |   |
| | Base material:B1 fireproof board(M); solid rubber wood(S) facing: Wood veneer(M/S); PU paint(S)<br>This adjustable combined sound absorption diffuser is composed of solid wood diffusion strip and sound absorption soft strip. It can make adjustment to the reverberation time as per the uses. With free combination, it can provide both good diffusion sound field and clean sound, effectively improving the fullness, articulation and stereoscopic impression of the environmental sound. | | | | |
|  | Carbon polymer groove panels | 6/2 9/2 14/2<br>29/3 30/2<br>60/4 124/4 | L2440*W128*D15mm | - |  |
| | Base material: Carbon plastic board(Enf, zero formaldehyde, waterproof, fireproof)<br>facing: Wood Grain Surface / Skin Touch Surface<br>Main features: Based on scientific calculation and acoustic theories, this panel has excellent noise reduction and sound absorption performance, especially for medium and low frequencies. | | | | |
|  | Diffuser | PEAK 2000A / D | A:H2000 * W800/400 * D200mm<br>D:H2000 * W800/400 * D200mm | A:W800≤42.5kg / W400≤32kg<br>D:W800≤43.3kg / W400≤22kg |   |
| | Base material: Carbon-plastic composite Finish: Heating compound pp veneer<br>Three wave-shaped diffusion with superimposed double-range bands. it has the function of sound absorption with 20% asymmetric design. It built-in low-frequency absorption cavities with three unequal volumes. To absorbing 550-250Hz low frequency, it landfilled with eco-friendly acoustic material. The MLS diffuser horizontally scatters and balances the reflected sound, so as to get a more uniform sound environment without losing sound energy. | | | | |



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# REHEARSAL HALL







Product Applications

| | | Modle | Size | Color |
|---|---|---|---|---|
| | ceiling | | | |
|  | 2D Diffusion Unit | D8 | 2440*100*27mm | Original |
| | wall | | | |
|  | Acoustic diffuser unit | MLS800 | 1200*3100*175mm | Original |
| | Fabric acoustic panel | CM30ET | ≥300*300mm ≤1200*2400mm | 15-0901L |
|  | 2D Diffusion Unit | D8 | 2440*100*27mm | Original |







Product Applications

| | | Modle | Size | Color |
|---|---|---|---|---|
| | ceiling | | | |
|  | Movable Acoustic Baffle | AQ1000HD | 2000*800*100m | Dark Grey |
| | wall | | | |
|  | Original wood sound diffuser unit | DIY300M | 1200*300*100mm | Dark Grey |
|  | Perforated acoustic panel | CK-1 | 1200*600*8mm | Dark Grey |



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Product Applications

| | | Modle | Size | Color |
|---|---|---|---|---|
| | **ceiling** | | | |
|  | Diffuser | PEAK 2000A<br>PEAK 2000D | 2000*400*200mm | Original |
| | **wall** | | | |
|  | 2D Diffusion Unit | D8 | 2440*100*27mm | Original |
|  | Original wood sound diffuser unit | DIY300M | 2400*300*100mm | white |
|  | Carbon polymer groove panels | 29/3 | 2440*128*15mm | LG206-2 |
|  | Movable Sound Reflection Baffle | AQ3500 | 3500*1500*800mm | BZ912 |







Product Applications

| | | Modle | Size | Color |
|---|---|---|---|---|
| | **ceiling** | | | |
|  | Music Sound Reflection Baffle | AQ5000T | 2500+* 2265mm/set | Original |
|  | Movable Acoustic Baffle | AQ1000HD | 2000*800*100mm | white |
| | **wall** | | | |
|  | Diffuser | CLOUD 2C | 600*600*90mm | white |
|  | 2D Diffusion Unit | D8 | 2440*100*27mm | Original |
|  | Perforated acoustic panel | CK-1 | 1200*600*8mm | white |
|  | Fabric acoustic panel | CM30ET | ≥300*300mm<br>≤1200*2400mm | HY2053-17 |



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# 05

# LIBRARY
# SOLUTIONS



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Library as an important learning space in addition to the classroom, not only for students to provide information access, independent learning functions, with the change of education, but also as a future learning center, but also to meet the needs of communication and discussion. A poor acoustic environment can lead to noise interference and echo problems, making it difficult for students to concentrate and focus on their studies. High noise levels can interfere with the learner's ability to think and remember, reducing the effectiveness of learning. It can cause stress and anxiety, increase discomfort and fatigue, which in turn affects learning and thinking.

Key points of the library's acoustic treatment: The ceiling is mainly sound absorption and noise reduction, which improves the flutter echo caused by sound bouncing in space, and adds more flexible space to the silent cabin.
1. Installing acoustic baffles and other sound-absorbing materials in the ceiling can effectively absorb sound waves and reduce noise propagation and echo problems.
2. In the library to increase both into the environment and relatively independent of the quiet cabin, good and appropriate sound insulation function to do the cabin cabin outside the learners do not interfere with each other, greatly enhancing the learners' concentration and learning effect. Realize the comprehensive use of the library environment with the combination of static and dynamic.

## PRODUCTINFORMATION



| Name | Model | Specification | Weight | Weight(Color Chart Reference) |
|---|---|---|---|---|
| Movable silence booth | SR-S (F2) | W1000*D936*H2346mm | Net weight : 235kg | S115 S235 S169 S201 S211 |
| | SR-M (F4) | W1500*D1236*H2346mm | Net weight : 390kg | |
| | SR-L (F6) | W2200*D1536*H2346mm | Net weight : 596kg | |

Soundbox "Silence Booth" is the first company use recycled carbon plastic materials.For each Soundbox booth:Carbon footprint ≤0.071kg CO2e, energy consumption ≤0.4MJ Air acidification ≤0.0001kg SO2e, water eutrophication ≤0.00002 Po4 Care for our global home with technology.
Soundbox Silence booth, a creative silent space, fulfilling your demands for various creative works. The self-developed carbon polymer composite panel, aviation aluminum and insulating glass forms the main structure of the booth. SOLIDWORKS mechanics modeling simplifies the booth assembly with only one type of fastener. INSUL MARSHALL ACOUSTIC simulation ensures well designed and performed sound transmission & insulation property of the booth.
Soundbox silence booth is a powerful and useful, though not the most perfect mini-space.



| | | | | |
|---|---|---|---|---|
| Movable silence booth | House No.1 | W1100*D900*H2210mm | Net weight : 198kg | Exterior color: Mint, Southsea, Cloud, Hazel, Storm, Taffy; Handles: Ash; Interior color: Cloud |
| | House No.2 | W1100*D900*H2210mm | Net weight : 198kg | |
| | House No.2.4 | W2200*D1220*H2210mm | Net weight : 411kg | |

Advanced sound insulation design to create a quiet environment, eco-friendly design, reduce environmental impact. Made of durable and environmentally friendly materials, it is durable and durable. Easy to install, saving time and manpower. Equipped with a pulley base for easy movement, and a built-in ventilation system for improved air circulation and comfort. The lighting is adjustable to create a personalized atmosphere. Built-in power socket for easy device connection, a variety of colors are available to meet different aesthetic needs.

# LIBRARY







## Product Applications

| | | Modle | Size | Color |
|---|---|---|---|---|
| | ceiling | | | |
|  | Matrix Acoustic Baffle | MA30 | 600*2400*32mm | SBX-02 |
| | hall | | | |
|  | Movable silence booth | SR-S(F2) | W1000*D936*H2346mm | S115 |
| | | SR-M(F4) | W1500*D1236*H2346mm | S115 |
| | | SR-L(F6) | W2200*D1536*H2346mm | S115 |







## Product Applications

| | | Modle | Size | Color |
|---|---|---|---|---|
| | ceiling | | | |
|  | Matrix Acoustic Baffle | MA30& | 600*2400*30mm | 14-107 |
| | hall | | | |
|  | Movable silence booth | SR-S(F2) | W1000*D936*H2346mm | S115 |
| | | SR-M(F4) | W1500*D1236*H2346mm | S115 |
| | | SR-L(F6) | W2200*D1536*H2346mm | S115 |



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Product Applications

| | | Modle | Size | Color |
|---|---|---|---|---|
|  | ceiling<br>Geometric | EQ5.1R | Ø600mm D40mm | Natu-01<br>Natu-10 |
| | | EQ5.2R | Ø900mm D40mm | Natu-01<br>Natu-10 |
|  | hall<br>Movable silence booth | House No.2<br>House No.2.4 | W1100*D900*H2210mm<br>W2200*D1220*H2210mm | Hazel<br>Hazel |







Product Applications

| | | Modle | Size | Color |
|---|---|---|---|---|
|  | ceiling<br>Geometric | EQ5.2Q | Ø900mm D40mm | Natu-03<br>Natu-09 |
|  | hall<br>Movable silence booth | House No 1 | W1100*D900*H2210mm | Southsea |



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# 06

# LECTURE HALL & THEATER SOLUTIONS



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## Acoustic Analysis:

The lecture hall and theater are mainly places where the school holds lectures, performances, performances, concerts and other activities. It usually has a large space and high ceilings, which can lead to echo and reverberation problems for the sound. Generally speaking, the reverberation time is short, which is good for the clarity of the sound, but too short will make the sound dry, dull and boring; A long reverberation time is good for the fullness of the voice, but too long a time can confuse the sound and reduce the clarity of speech.

The focus of sound treatment in the report hall and theater is as follows: the wall absorbs and diffuses reflections, and the ceiling assists in sound absorption
1. The acoustic reflector is used at the entrance of the stage, the purpose of which is to diffuse the sound wave reflection to the audience in the hall, so as to avoid the sound field problems of sound coloration, sound focusing and standing waves, and make the sound quality more delicate and accurate.
2. Acoustic panels can be used in the stage area to effectively absorb reflected sound at full frequency, which helps to optimize the reverberation time, restore a good listening environment for the front row VIPs, and facilitate the stage actors to distinguish their voices.
3. The back wall can use sound-absorbing panels to effectively absorb the echoes generated by the reflections on both sides, which helps to optimize the reverberation time; At the same time, it has a good low-frequency absorption effect, which can effectively eliminate the vibration caused by low frequency.
4. Both sides of the theater wall can be used to absorb sound diffusion material module, which helps to optimize the reverberation time, and do a good job of uniform diffusion, to improve the uniformity and brightness of the sound field environment, to improve the fullness of the sound and sense of enclosure.

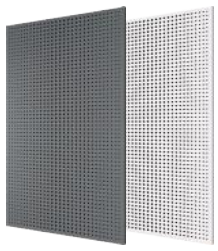
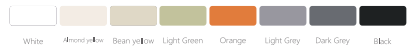
# PRODUCT INFORMATION

| | Name | Model | Specification | Weight | Weight(Color Chart Reference) |
|---|---|---|---|---|---|
|   | Music Sound Reflection Baffle | AQ5000T / AQ5000H | AQ5000T H2500+* W2265mm/set<br>AQ5000H H6000+* W3340mm/set | – |   |
| | Finish: Roller-coated wood finish on the front, back panel painted in solid color.<br>The music sound reflection baffle consists of two parts: the facade reflector and the top reflector, and the arc reflective index is based on MLS simulation. It is made of alloy material which is favorable for wide frequency and high efficiency sound reflection, and the structure of GEOM plate meets the demand of light weight of the module, and ensures the convenience and safety of using and storing. Flexible splicing of modules, combined with stage machinery hanging equipment for quick and easy construction and storage. | | | | |
|  | Acoustic diffuser unit | MLS800 | H1200/2400*W3100*D175mm | – |   |
| | Base material:B1 fireproof high density fiber board facing: Wood veneer PU lacquer<br><br>The diffuser is calculated to improve the sound field diffusion performance. The main purpose is to obtain a diffuse sound field, which can diffuse when the wavelength of the sound wave is similar to or smaller than the size of the diffuser. At the same time, it can also avoid phenomena such as flutter and echo, which can obtain a good diffuse sound field and a clean sound. Effectively improve the fullness, clarity and three-dimensional sense of ambient sound quality | | | | |

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| | Name | Model | Specification | Weight | Weight(Color Chart Reference) |
|---|---|---|---|---|---|
|  | Perforated acoustic panel | CK-1 | L300/600*W600*D6mm<br>L600*W600/1200*D8mm | – |  |

Base material: 8mm MGP
Finish: Raw board (Back cloth not included) / Eco friendly paint
This round holes structure is designed by acoustic theories calculation. Excellent function in medium and low frequencies

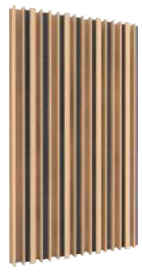
| | | | | | |
|---|---|---|---|---|---|
|  | Perforated acoustic panel | CK-2 | W600*L600/1200*D8mm | – |  |

Base material: 8mm MGP
Finish:Raw board (Back cloth not included) / Eco friendly paint
It is designed to control NRC by calculating special holes diameters. Adopting different diameters, this panel functions excellently in broad band absorption, including low, medium and high frequencies.

| | | | | | |
|---|---|---|---|---|---|
|  | Original wood<br>sound diffuser unit | DIY300M/DIY300S | L1200/2400*W300*D100mm | - |  |

Base material:B1 fireproof board(M); solid rubber wood(S) facing: Wood veneer(S); PU paint(M/S)

The adjustable combination of acoustic diffuser is a combination of diffusion strips and acoustic soft package strips, according to the use of functionality to adjust the room reverberation time, free to match, you can get a good diffusion of the sound field can also get a clean sound. Effectively improve the ambient sound quality saturation, clarity and stereo.

| | | | | | |
|---|---|---|---|---|---|
|  | Original wood<br>sound diffuser unit | DIY300A | L1200/2400/3000*W300*D100mm | - |  |

Base material: Anti-vibration metal facing: Wood color; paint

The adjustable combination of acoustic diffuser is made of anti-resonance alloy material diffusion strip and acoustic soft package strip combination, according to the use of functionality to adjust the reverberation time in the room, free to match, you can get a good diffusion of the sound field can also get a clean sound. Effectively improve the ambient sound quality saturation, clarity and stereo.

| | | | | | |
|---|---|---|---|---|---|
|  | Carbon polymer groove panels | 6/2 9/2 14/2<br>29/3 30/2<br>60/4 124/4 | L2440*W128*D15mm | - |  |

Base material: Carbon plastic board(Enf, zero formaldehyde, waterproof, fireproof)
facing: Wood Grain Surface / Skin Touch Surface
Main features: Based on scientific calculation and acoustic theories, this panel has excellent noise reduction and sound absorption performance, especially for medium and low frequencies.

| | | | | | |
|---|---|---|---|---|---|
|  | Movable Acoustic Baffle | AQ1000H/HD | AQ1000H: H2100*W800*D200mm<br>AQ1000HD: H2000*W800*D100mm | AQ1000H 28kg<br>AQ1000HD 15.5kg |  |

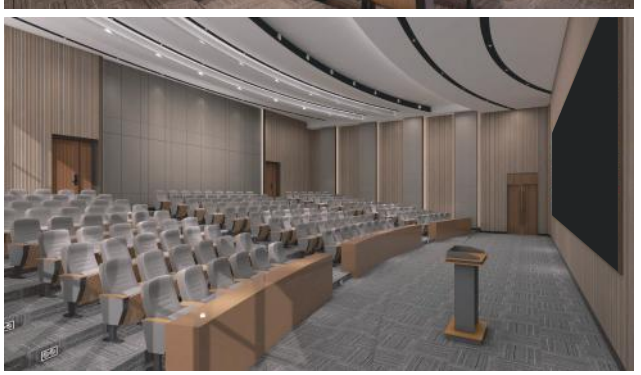
Base material:Unequal density ultra-microporous white glass fiber acoustic composite cotton, environmentally friendly and emission-free treatment.
facing:1)Acoustical fabric for sound absorption; 2)Diffusion side: PU Matte painting (Please refer to color chart for details)
Movable acoustic baffle help to control long reverberation time, fluttering echo, parallel sound reflection and standing wave in medium frequency for churches, halls, multi-functional rooms, and studio. Meanwhile, it's a quick outdoor acoustic shell solution.



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# LECTURE HALL






**Product Applications**

| | Modle | Size | Color |
|---|---|---|---|
| wall | | | |
| Carbon polymer groove panels | | | |
|  | 30/2 | 2440*128*15mm | KY263-13-155S |
| Fabric acoustic panel | | | |
|  | CM30ET | ≥300*300mm<br>≤1200*2400mm | HY2053-17 |






**Product Applications**

| | Modle | Size | Color |
|---|---|---|---|
| wall | | | |
| Original wood sound diffuser unit | | | |
|  | DIY300A | 1200*300*100mm | B-7 |
| Perforated acoustic panel | | | |
|  | CK-1 | 600*1200*8mm | Almond yellow |



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Product Applications

| | | Modle | Size | Color |
|---|---|---|---|---|
| | wall | | | |
|  | Music Sound Reflection Baffle | AQ5000H | 6000+* 3340mm/set | Original |
|  | Acoustic diffuser unit | MLS800 | 1200*3100*175mm | Original |
|  | Perforated acoustic panel | CK-2 | 1200*600*8mm | Black |







Product Applications

| | | Modle | Size | Color |
|---|---|---|---|---|
| | wall | | | |
|  | Original wood sound diffuser unit | DIY300M | 1200*300*100mm | Dark Grey |
|  | Carbon polymer groove panels | 30/2 | 2440*128*15mm | LG206-2 |
|  | Fabric acoustic panel | CM30ET | ≥300*300mm ≤1200*2400mm | HY2053-18 |
|  | Movable Acoustic Baffle | AQ1000HD | 2000*800*100m | Dark Grey |



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# 07

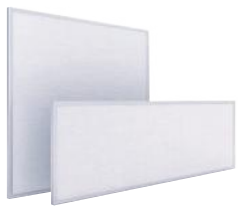
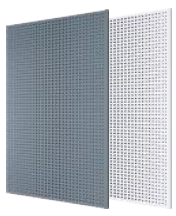
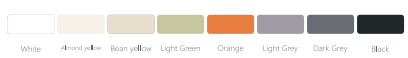
# GYM
# SOLUTIONS



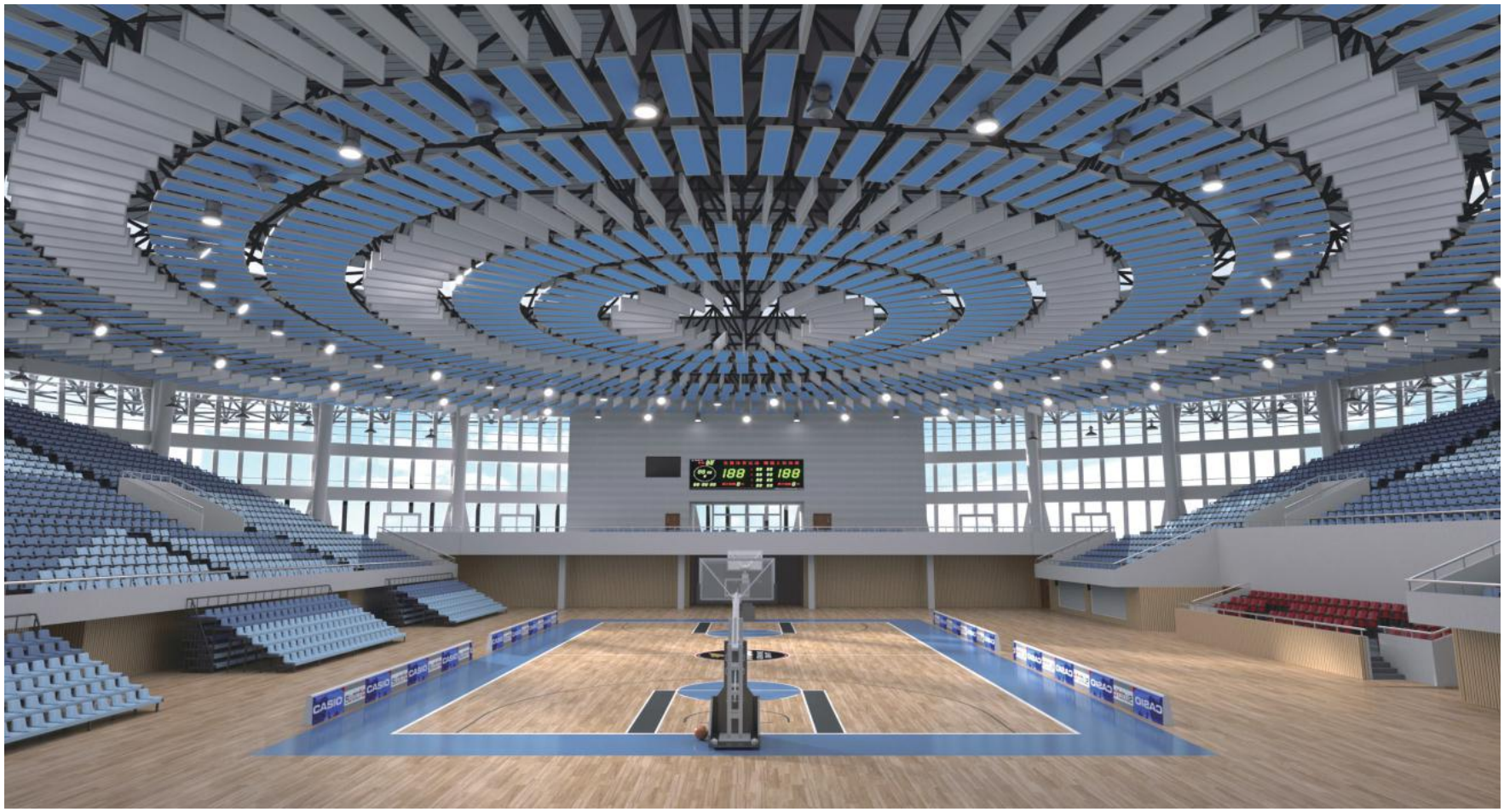
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**Acoustic Analysis:**
The main function of the stadium is to meet the needs of sports events, training, space is relatively large, and may also be used to hold meetings and cultural performances and other activities, so the stadium sound environment requirements:
A. There is sufficient sound level in the auditorium to meet the necessary functions and requirements of the gymnasium;
B. All auditoriums are covered by electric sound reinforcement;
C. There is enough clarity in the transmission language and a certain degree of fullness when transmitting the music;
D. Reduce external sound interference
Gymnasium acoustic treatment focus: ceiling and wall sound absorption
1. Moulded alloy frames can be fitted into the top grid with built-in customized acoustic baffles of broadband composite acoustic cotton and unglued thermally composite airtight acoustic felt, thus ensuring excellent sound absorption, improving product stability and also reducing construction contamination while eliminating sound focusing caused by the top notch.
2. Can be installed in the basketball court wall carbon slot hole acoustic panels / perforated flame-retardant environmental protection acoustic panels, effective absorption of low-frequency, eliminating the low-frequency impact of the stadium impact sound and electroacoustic impact, with acoustic baffles to achieve a full-frequency uniform absorption of the indoor reverberation control, clear sound quality, and at the same time seamless splicing of the construction process to enhance the overall aesthetics of the arena, zero formaldehyde emissions are more environmentally friendly and safe, moisture-proof and waterproof to meet the humid geographic environment. Use.

# PRODUCT INFORMATION

| | Name | Model | Specification | Weight | Weight(Color Chart Reference) |
|---|---|---|---|---|---|
|  | Matrix Acoustic Baffle | MA30/MA50 | W600 * L1200/1800/2400 * D32/52mm | 3.75kg/m² / 7kg/m² |  |
| | Base material: Eco-friendly white Acoustic fiber glass(zero formaldehyde emission) facing: Flame-retardant acoustic fiberglass fabric<br>It is a horizontal installation model, with a unique space sandblasted aluminum metal texture, an acoustic cloth cover process, and a non-equivalent blocking absorption surface on the back. The matrix not only efficiently absorbs the direct sound from the space, but is also an advantageous absorption structure for low-frequency standing waves in the subspace of the ceiling. , is a high-efficiency broadband sound capture product that integrates into diverse environments. | | | | |
|  | Ceiling Acoustic Baffle | MT50/60/100 | W600/800/1200 * L1200/1800/2400 * D50/60/100mm | 5kg/m² / 5.5kg/m² / 7kg/m² |  |
| | Base material: eco-friendly white Acoustic fiber glass(zero formaldehyde emission)<br>facing: Flame-retardant acoustic fiberglass fabric<br>Surrounding aluminum alloy frame; Airtight sound absorption felt; Non-inflammable, water proof, sound absorption fabric. | | | | |
|  | Matrix acoustic panel | CK-2 | L600*W600/1200*D8mm | – |  |
| | Base material: 8mm MGP<br>Finish: The gradual change of different aperture design, so that<br>the product has a good sound absorption effect in the whole frequency range of high school and low frequency. | | | | |
|  | Perforated acoustic panel | CK-1 | L300/600*W600*D6mm<br>L600*W600/1200*D8mm | – |  |
| | Base material: 8mm MGP<br>Finish: Raw board (Back cloth not included) / Eco friendly paint<br>This round holes structure is designed by acoustic theories calculation. Excellent function in medium and low frequencies | | | | |
|  | Carbon polymer groove panels | 6/2 9/2 14/2<br>29/3 30/2<br>60/4 124/4 | L2440*W128*D15mm | - |  |
| | Base material: Carbon plastic board(Enf, zero formaldehyde, waterproof, fireproof)<br>facing: Wood Grain Surface / Skin Touch Surface<br>Main features: Based on scientific calculation and acoustic theories, this panel has excellent noise reduction and sound absorption performance, especially for medium and low frequencies. | | | | |

# GYM






## Product Applications

| | Modle | Size | Color |
|---|---|---|---|
| ceiling | | | |
| Ceiling Acoustic Baffle | | | |
|  | MT60 | 600*2400*60mm | SBX-01<br>SBX-13 |
| wall | | | |
| Carbon polymer groove panels | | | |
|  | 29/3 | 2440*128*15mm | KY263-13-155S |
| Matrix acoustic panel | | | |
|  | CK-2 | 1200*600*8mm | Light Grey |



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**Product Applications**

| | Modle | Size | Color |
|---|---|---|---|
| ceiling | | | |
| Matrix Acoustic Baffle | | | |
|  | MA50 | 600*2400*50mm | SBX-04 |
| wall | | | |
| Carbon polymer groove panels | | | |
|  | 29/3 | 2440*128*15mm | LG206-2 |
| Perforated acoustic panel | | | |
|  | CK-1 | 1200*600*8mm | Almond yellow |



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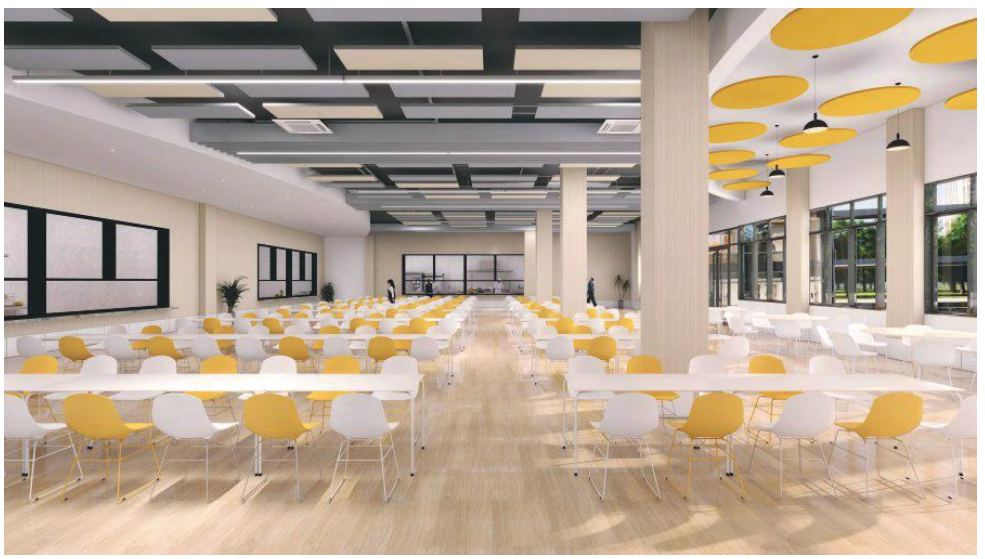




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**Acoustic Analysis:**

The cafeteria is the whole school teachers and students concentrated time to eat a place, the noisy environment is easy to make people irritable, thus affecting the appetite and digestion. May also lead to digestive system dysfunction, indigestion, stomach pain and other symptoms, endangering the health of teachers and students. Good dining environment, so that students are conducive to the cultivation of self-discipline and civilized quality, more focused on the meal, so as to enjoy the pleasure brought by the food, and after the meal can quickly restore energy into the study, improve learning efficiency.

**Restaurant acoustic treatment focus: ceiling sound absorption**

Installation of acoustic baffles, acoustic soft packages and other sound-absorbing materials in the ceiling to achieve effective sound absorption and noise reduction for the restaurant, creating a good dining environment.





**Acoustic Analysis:**

Smooth floor, wall, and glass railing in the corridor will aggravate the sound reflection, the lack of acoustic treatment of the corridor is prone to noise propagation and echo problems, the corridor noise during the classroom is easy to distract the attention of the students, reducing learning efficiency, lunch break, the corridor noise may interfere with teachers and students rest and relaxation, prolonged exposure to noise may lead to teachers and students feel fatigued and uncomfortable, resulting in students with hearing loss, emotionally Prolonged exposure to noise may lead to fatigue and discomfort, resulting in hearing loss, irritability, lack of concentration and other problems, and in serious cases, may also lead to psychological disorders.

**Corridor acoustic treatment focus: ceiling sound absorption**

Installation of acoustic baffles in the ceiling, acoustic soft packages and other sound-absorbing materials, can effectively absorb sound waves, reduce the spread of noise and echo problems, to create a relatively quiet corridor environment.



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# PRODUCT INFORMATION

| | Name | Model | Specification | Weight | Weight(Color Chart Reference) |
|---|---|---|---|---|---|
|  | Matrix Acoustic Baffle | MA30/MA50 | W600 * L1200/1800/2400 * D32/52mm | 3.75kg/m² / 7kg/m² |  |

Base material: Eco-friendly white Acoustic fiber glass(zero formaldehyde emission) facing: Flame-retardant acoustic fiberglass fabric

It is a horizontal installation model, with a unique space sandblasted aluminum metal texture, an acoustic cloth cover process, and a non-equivalent blocking absorption surface on the back. The matrix not only efficiently absorbs the direct sound from the space, but is also an advantageous absorption structure for low-frequency standing waves in the subspace of the ceiling. , is a high-efficiency broadband sound capture product that integrates into diverse environments.

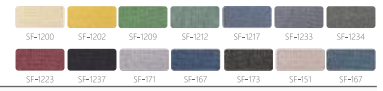
| | | | | | |
|---|---|---|---|---|---|
|  | Matrix Acoustic Baffle | MA30&/MA50& | W600 * L1200/1800/2400 * D30/50mm | 3.75kg/m² / 7kg/m² |  |

Base material: Eco-friendly white Acoustic fiber glass(zero formaldehyde emission) facing: Flame-retardant acoustic fiberglass fabric

It is a horizontal installation model, with a unique space sandblasted aluminum metal texture, an acoustic cloth cover process, and a non-equivalent blocking absorption surface on the back. The matrix not only efficiently absorbs the direct sound from the space, but is also an advantageous absorption structure for low-frequency standing waves in the subspace of the ceiling. , is a high-efficiency broadband sound capture product that integrates into diverse environments.

| | | | | | |
|---|---|---|---|---|---|
|  | Movable silence booth | SR-M (F4)<br>SR-L (F6) | W1500*D1236*H2346mm<br>W2200*D1536*H2346mm | Net weight : 390kg<br>Net weight : 596kg |  |

Soundbox "Silence Booth" is the first company use recycled carbon plastic materials.For each Soundbox booth:Carbon footprint ≤0.071kg CO2e, energy consumption ≤0.4MJ Air acidification ≤0.0001kg SO2e, water eutrophication ≤0.00002 Po4 Care for our global home with technology.
Soundbox Silence booth, a creative silent space, fulfilling your demands for various creative works. The self-developed carbon polymer composite panel, aviation aluminum and insulating glass forms the main structure of the booth. SOLIDWORKS mechanics modeling simplifies the booth assembly with only one type of fastener. INSUL MARSHALL ACOUSTIC simulation ensures well designed and performed sound transmission & insulation property of the booth.
Soundbox silence booth is a powerful and useful, though not the most perfect mini-space.

| | | | | | |
|---|---|---|---|---|---|
|  | Customized shape fabric acoustic panel | MT30R/MT60R | Φ600/900/1200mm D30/60mm | – |  |

Base material: Eco-friendly white Acoustic fiber glass(zero formaldehyde emission)
facing: Acoustic cloth(Grade A/B/C)/Imagine Spray painting
Patented easily installed solution; Up to International Enf standard; This new design functions much better than the old softpack with more standard frame, Eco-friendly, flame retardant and moisture proofing.

| | | | | | |
|---|---|---|---|---|---|
|  | Ceiling Acoustic Baffle | MT30/50/60/100 | W600/800/1200 * L1200/1800/2400 * D30/50/60/100mm | 3.1kg/m² / 5kg/m² / 5.5kg/m² / 7kg/m² |  |

Base material: eco-friendly white Acoustic fiber glass(zero formaldehyde emission)
facing: Flame-retardant acoustic fiberglass fabric
Surrounding aluminum alloy frame; Airtight sound absorption felt; Non-inflammable, water proof, sound absorption fabric.



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Product Applications

| | Modle | Size | Color |
|---|---|---|---|
| ceiling | | | |
| Matrix Acoustic Baffle | | | |
|  | MA30& | 600*1800*30mm | 14-101B<br>14-107 |
| Matrix Acoustic Baffle | | | |
|  | MA30 | 600*1800*32mm | 14-101B |



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## Product Applications

| | Modle | Size | Color |
|---|---|---|---|
| ceiling | | | |
| Customized shape fabric acoustic panel | | | |
|  | MT30R | Ø900mm | 15-9501L |
| | | Ø1200mm | 15-9501L |
| Matrix Acoustic Baffle | | | |
|  | MA30 | 600*1800*32mm | 15-0901L<br>15-0701L |



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# CORRIDOR

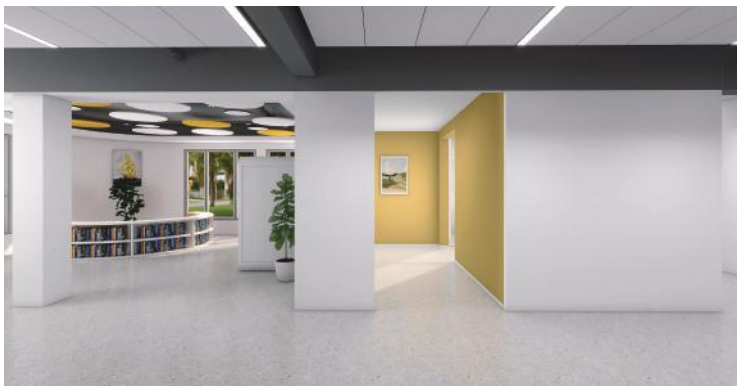




Product Applications

| | | Modle | Size | Color |
|---|---|---|---|---|
| | ceiling | | | |
|  | Matrix Acoustic Baffle | MA30 | 600*1200*32mm | 14-101B |
|  | Matrix Acoustic Baffle | MA30 | 600*1800*32mm | 15-7501L<br>15-1104L<br>15-2102L |





Product Applications

| | Name | Modle | Size | Color |
|---|---|---|---|---|
| | ceiling | | | |
|  | Customized shape fabric acoustic panel | MT30R | Ø1200mm<br>Ø1200mm | SBX-01<br>SBX-09 |
|  | Matrix Acoustic Baffle | MA30 | 600*1800*32mm | SBX-09 |
| | hall | | | |
|  | Movable silence booth | SR-L(F6) | W2200*D1536*H2346mm | S115 |



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Product Applications

| | Modle | Size | Color |
|---|---|---|---|
| ceiling | | | |
| Matrix Acoustic Baffle | MA30& | 600*1800*30mm | SBX-19<br>SBX-01 |





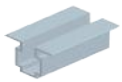
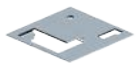

Product Applications

| | Modle | Size | Color |
|---|---|---|---|
| ceiling | | | |
| Ceiling Acoustic Baffle | MT30 | 600*1200*30mm | SBX-01<br>SBX-16 |



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## INSTALLATION ACCESSORIES

| Appearance | Name | Model | Unit load(KG) | Color | Surface size | Applicable |
|---|---|---|---|---|---|---|
| L1-1  | Auxiliary keel | L1-1 | ≤15 | Aluminum | W3000*L25*D20 | Grooved acoustic panel |
| L1-2  | Installation insert | L1-2 | ≤10 | Aluminum | W45*L40*D0.5 | |
| L2-1<br>L3-1  | Main keel | L2-1 | ≤25 | Aluminum | W3000*L48*D9 | ≤15mm<br>Perforated Acoustic Panel/<br>Reflection Panel<br>Thickness30 / 60 mm |
| | Edging keel | L2-2 | ≤25 | Aluminum | W3000*L30*D9 | |
| L2-2<br>L3-2  | Main keel | L3-1 | ≤30 | Aluminum | W3000*L48*D12 | ≤50mm<br>Perforated Acoustic Panel/<br>Reflection Panel<br>Thickness30 / 60 mm |
| | Edging keel | L3-2 | ≤30 | Aluminum | W3000*L30*D12 | |
| Φ6/Φ8  | Rings | Φ6 | ≤80 | Galvanizing primary color | Φ6*10mm | Fabric acoustic items |
| | Hanger | M6 | ≤60 | Galvanizing primary color | 60*25mm | |
| M6/M7  | Rings | Φ8 | ≤120 | Galvanizing primary color | Φ8*12mm | Wooden acoustic items |
| | Hanger | M7 | ≤80 | Galvanizing primary color | 70*30mm | |
| L7  | Z-type installation plug-in | L7 | ≤3 | Primary color | 50*38 | MA30/50 |
| <br>80A 80B 50A 50B | Velcro | 80A/80B | ≤5 | Black | Φ80 | Walleasear<br>Acoustic Panel |
| | Velcro | 50A/50B | ≤3 | Black | Φ50 | Walleasear<br>Acoustic Panel |
|  | Ceiling hanging tray | T1 | ≤10 | Black | Φ 120 hanging tray, 3 steel wires, 2 sets of screws | Customized fabric acoustic items |
| | Ceiling hanging tray | T2 | ≤12 | Black | Φ 150 hanging tray, 4 steel wires, 2 sets of screws | Matrix fabric acoustic items |



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Design code for sports building JGJ 131-2012

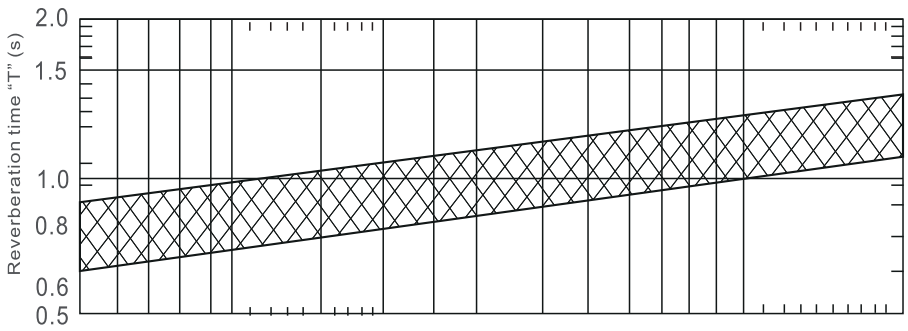
Table 2: 500-1000Hz Reverberation Time of a Sports Hall of a Comprehensive Stadium at Fully Occupied Status

| | | | | |
|---|---|---|---|---|
| | <40000 | 40000~80000 | 80000~160000 | >160000 |
| | 1.3~1.4 | 1.4~1.6 | 1.6~1.8 | 1.9~2.1 |
| | | | | |

Table 3: Ratio of Reverberation Time at Various Frequencies and Reverberation Time at 500-1000Hz

| (Hz) | 125 | 250 | 2000 | 4000 |
|---|---|---|---|---|
| | 1.0~1.3 | 1.0~1.2 | 0.9~1.0 | 0.8~1.0 |

# TECHNICAL STANDARDS FOR ACOUSTICS




1, the auditorium full of suitable reverberation time selection in accordance with the following provisions:
2, at a frequency of 500 ~ 1000Hz is appropriate to use the appropriate reverberation time range shown in Figure 2 for different volumes.
3, reverberation time frequency characteristics, relative to the 500 ~ 1000Hz ratio should be consistent with the provisions of Table 2.
4, the reverberation time should be 125 Hz, 250 Hz, 500 Hz, 1000 Hz, 2000 Hz, 4000 Hz six frequencies for estimation. Estimated value should be taken as two effective values.

| (Hz) | |
|---|---|
| 125 | 1.0~1.2 |
| 250 | 1.0~1.1 |
| 2000 | 0.9~1.0 |
| 4000 | 0.8~1.0 |

CHAPTER 4 OF THE CODE FOR SOUND INSULATION DESIGN OF CIVIL BUILDINGS GBJ118-2010 MAKES SPECIFIC REQUIREMENTS FOR THE ACOUSTIC INDEXES OF CLASSROOMS

1, the auditorium full of suitable reverberation time selection in accordance with the following provisions:
2, at a frequency of 500 ~ 1000Hz is appropriate to use the appropriate reverberation time range shown in Figure 2 for different volumes.
3, reverberation time frequency characteristics, relative to the 500 ~ 1000Hz ratio should be consistent with the provisions of Table 2.
4, the reverberation time should be 125 Hz, 250 Hz, 500 Hz, 1000 Hz, 2000 Hz, 4000 Hz six frequencies for estimation. Estimated value should be taken as two effective values.

| ( $m^3$ ) | ≤ 200 | > 200 | ≤ 300 | > 300 | ≤ 250 | > 250 | ≤ 50 | > 50 | ≤ 2000 | > 2000 | ≤ 1000 | > 1000 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 500 - 1000Hz (s) | ≤ 0.8 | ≤ 1.0 | ≤ 0.6 | ≤ 0.8 | ≤ 0.6 | ≤ 0.8 | ≤ 0.4 | ≤ 0.6 | ≤ 1.2 | ≤ 1.5 | ≤ 1.2 | ≤ 1.5 |

Note: The reverberation time value in the table can be allowed to have a variation of 0.1s; the volume of the room can be allowed to have a variation of 10%. Article 4.3.5 Noise-producing rooms (music classroom, dance classroom, piano room, gymnasium), if they are located in the same teaching building with other teaching rooms, should be arranged in separate areas and sound insulation measures should be taken.



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