

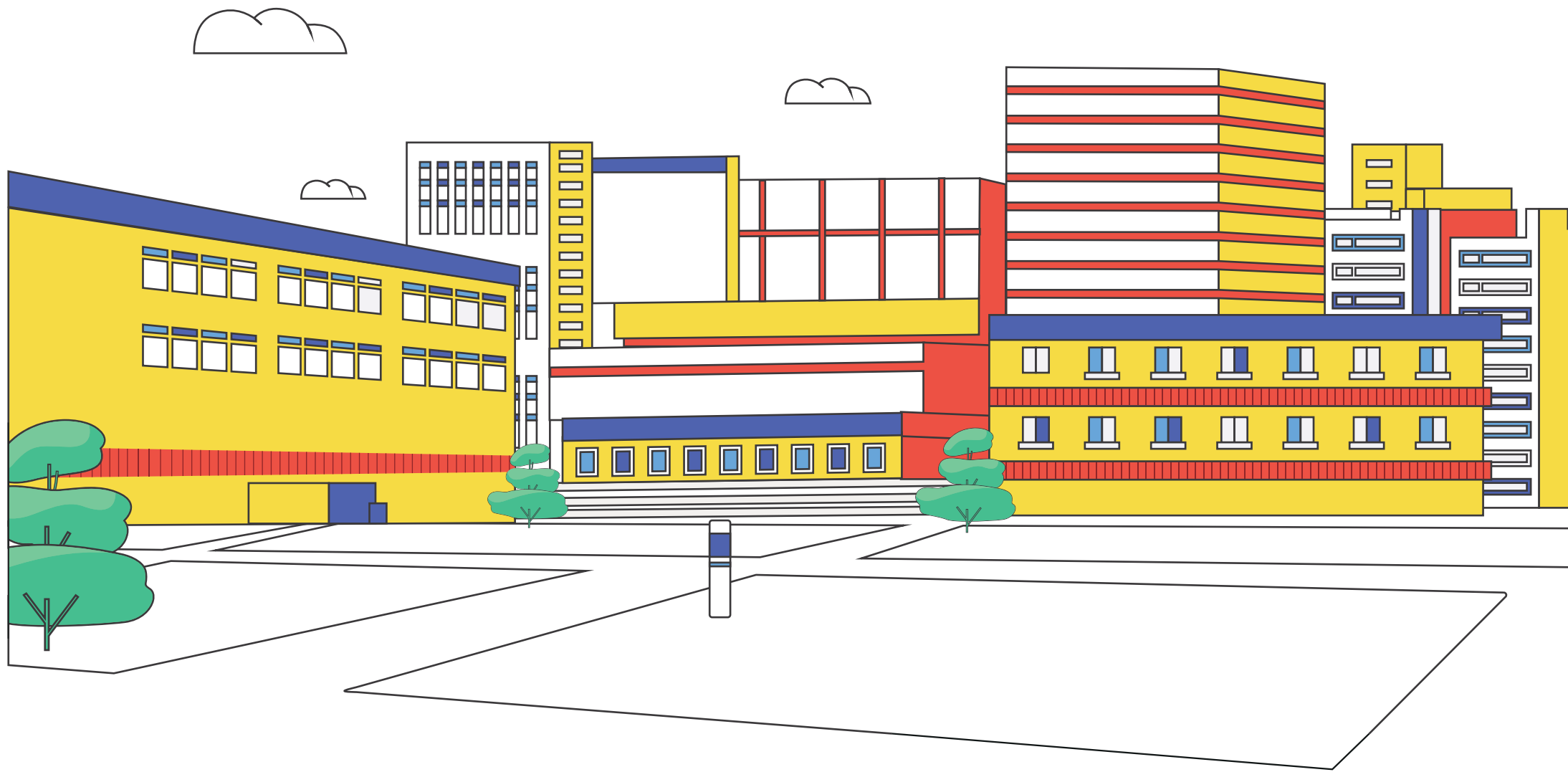
WE ARE ENVIRONMENTALLY-FRIENDLY

Recycling means to repeat the life cycle continuously ,by giving new use to materials discarded by society. We are increasingly concerned about using recyclable and environmentally-friendly raw materials. The recyclable materials used in our manufacturing processes come from plastic, cotton, artificial wood and glass fiber reinforced materials. The recyclable materials of our products consist of wood from self-sustainable forests, fabric, ceramics and chipboards. Our painting method uses ecological paints with environmentally harmless dyes and components and no active solvents. Recycling offers an indeterminate number of advantages. It prevents soil and water contamination, reduces the volume of waste that goes to the sanitary landfills, also generates jobs for many people and saves natural resources. In the course of the years, Soundbox Acoustic Panels has become increasingly concerned about and aware of the need to reduce inert matters that pollute the planet. This is an issue that concerns all of us and the industrial world must pay careful attention in particular.



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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.



"SOUNDBOX" Better Empower Modern Education

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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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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.

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.				
	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.				
	Fabric acoustic panel	CM30E/60E/120E (Right angle) CM30ET/60ET/120ET (Chamfer)	W&L : 300*300/600/1200mm 600*600/1200/1800mm 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.				
	Magic block acoustic panel	MD48-300/600/1200	W300*L1200*D50mm L600*W600*D50mm 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.				



Product Applications

			Modle	Size	Color	QTy
	<u>ceiling</u>	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
		Matrix Acoustic Baffle	MA50	600*1200*52mm	14-102B	6 PCS

(500Hz~1000Hz) :≤200m'/≤0.8s



Product Applications

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

(500Hz~1000Hz) :≤200m'/≤0.8s



Product Applications

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

(500Hz~1000Hz) :≤200m'/≤0.8s



Product Applications

		Modle	Size	Color	QTy	
	<u>ceiling</u>	Matrix Acoustic Baffle	MA30&	600*1200*30mm	 14-14	48 PCS

	wall	Matrix Acoustic Baffle	MA50	600*1200*52mm	14-102B	9 PCS
		Matrix Acoustic Baffle	MA50	600*1200*52mm	14-14	4 PCS

(500Hz~1000Hz) :> 300m'/≤0.8s



Product Applications

	Name	Modle	Size	Color	QTy
	<u>ceiling</u>				
	Matrix Acoustic Baffle	MA50	600*1200*52mm	 14 113	32 PCS

(500Hz~1000Hz) :≤300m'/≤0.6s



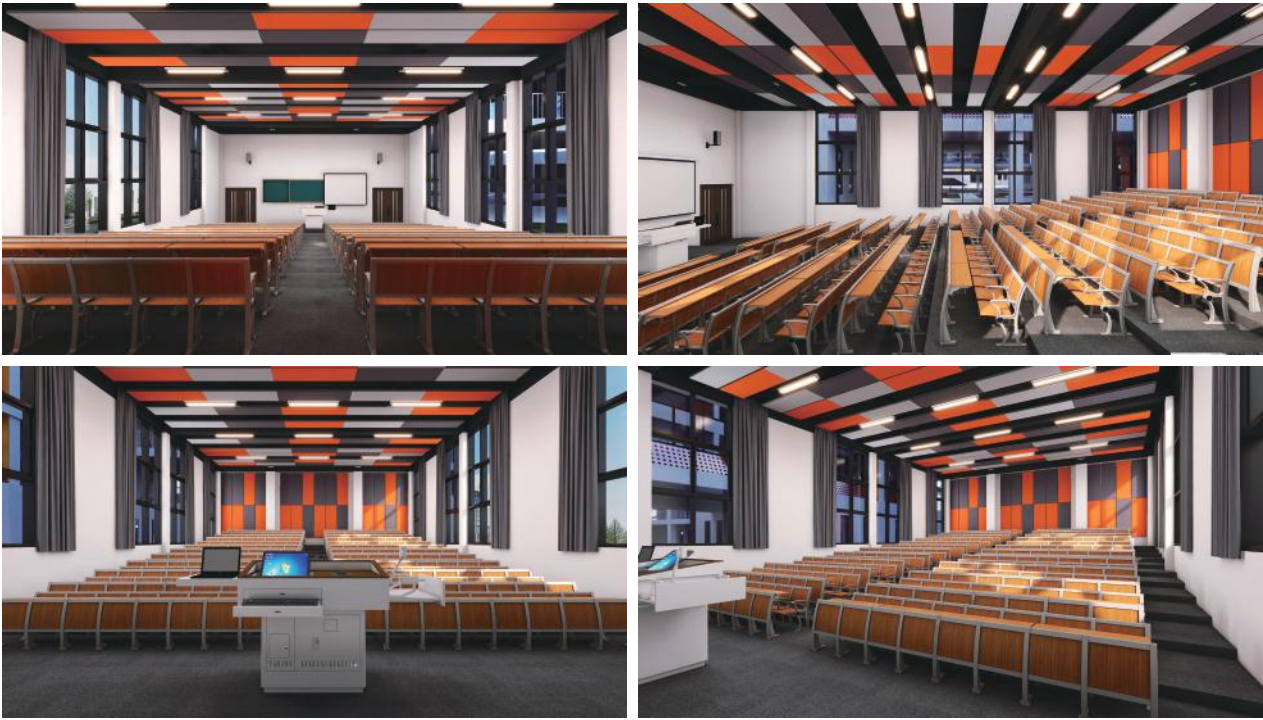
Product Applications

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

(500Hz~1000Hz) :≤300m'/≤0.6s



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) : > 200m²/≤1s				



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) : > 200m²/≤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) : > 200m²/≤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) : > 200m²/≤1s				



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

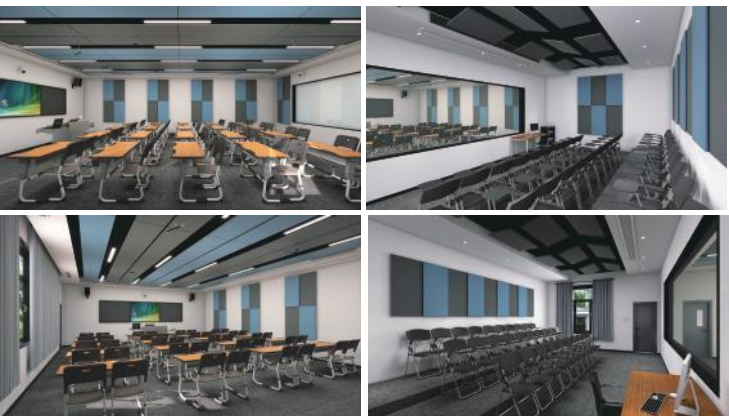
(500Hz~1000Hz) :≤500m³/≤0.5s



Product Applications

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

(500Hz~1000Hz) :≤300m³/≤0.4s



Product Applications

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

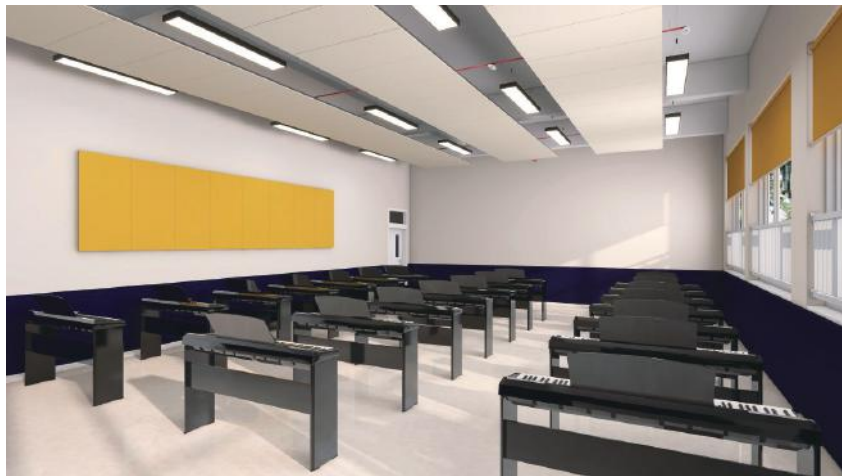
(500Hz~1000Hz) :≤500m³/≤0.5s



02



MUSIC
CLASSROOM
SOLUTIONS



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:

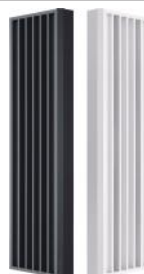
Walls and ceilings, combination of sound absorption and diffusion, with low-frequency absorption treatment.

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	104kg	
			: H2165 * W842 * D50mm		
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.					

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&L300*1200/1500mm 600*600/1200/1500/1800mm D: 30/60/120mm	EQ30≤4.8Kg/m² EQ60≤7.0Kg/m² 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. Wallesear 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 CLOUD 2C-LED: 6.2kg/pcs	
	CLOUD2C unique acoustic characteristics and diversified aesthetic decoration effects of cloud diffusers can effectively improve the sound beld 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 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 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.				



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

(500Hz~1000Hz) :≤250m²/≤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) :≤250m²/≤0.6s



Product Applications				
	Modle	Size	Color	Qty
ceiling				
	Customized shape fabric acoustic panel	MT30R	Ø900mm Ø1200mm	 15-1104L 9 PCS
				 15-0701L 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) :≤250m²/≤0.6s



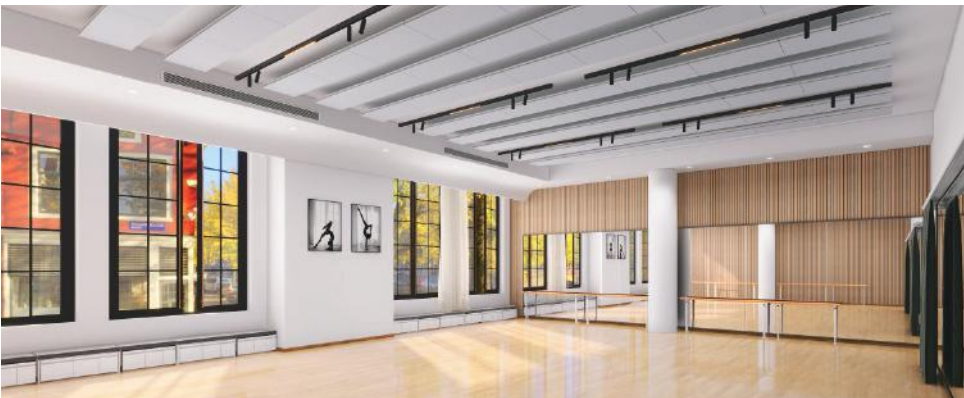
Product Applications				
	Modle	Size	Color	QTy
wall				
	W-absorber	EQ60TD	600*1800*60mm	Natu-01 16 PCS
	Diffuser	WAVE 600	600*1800*160mm	Original 8 PCS
	Commercial acoustic door	G50S	2200 * 900 * 120/388mm	Bean yellow 1 Set

(500Hz~1000Hz) :≤250m²/≤0.8s



03

DANCE
CLASSROOM
SOLUTIONS



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.

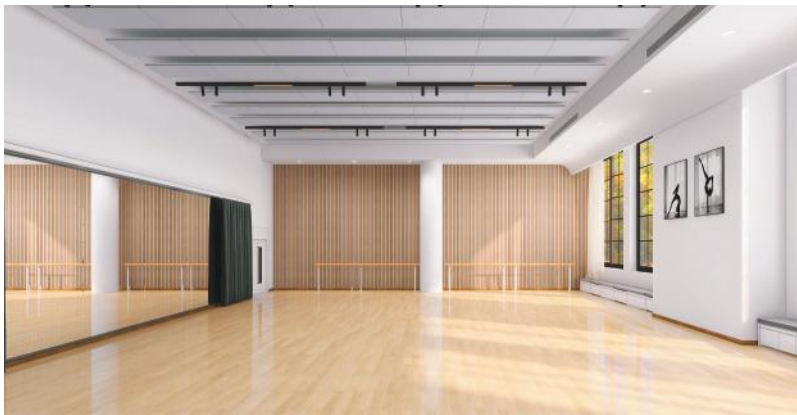
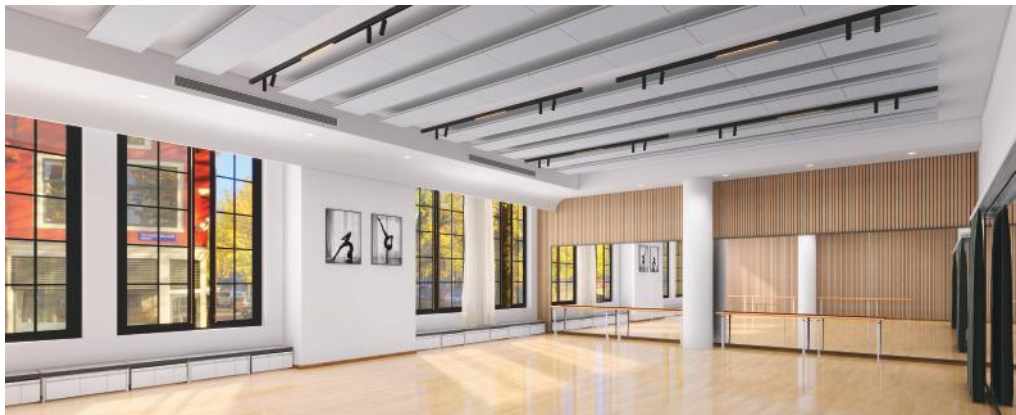
The key points of acoustic treatment in the dance studio: ceiling sound absorption, wall auxiliary sound absorption, control the reverberation time to improve the listening environment

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 subpace of the ceiling. , is a high-efficiency broadband sound capture product that integrates into diverse environments.				
	Fabric acoustic panel	CM30E/60E/120E (Right angle) CM30ET/60ET/120ET (Chamfer)	W&L : 300*300/600/1200mm 600*600/1200/1800mm 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.				
	Geometric	EQ5.1R / EQ5.2R EQ5.1Q / EQ5.2Q	Φ600/900mm D40mm W600/900mm*H600/900mm D40mm	EQ5.1R: ≈1080g EQ5.2R: ≈2170g EQ5.1Q: ≈1275g 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				
	Carbon polymer groove panels	6/2 9/2 14/2 29/3 30/2 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.				
	Magic block acoustic panel	MD48-300/600/1200	W300*L1200*D50mm L600*W600*D50mm 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.				



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	 KY263-13-15SS	50m ²

(500Hz~1000Hz) :> 1000m³/≤1.5s



Product Applications

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

(500Hz~1000Hz) :> 1000m³/≤1.5s



Product Applications

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

(500Hz~1000Hz) :≤1000m³/≤1.2s

04

REHEARSAL
HALL
SOLUTIONS

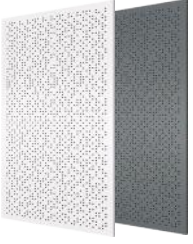
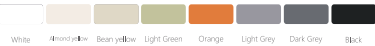
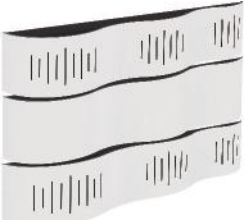


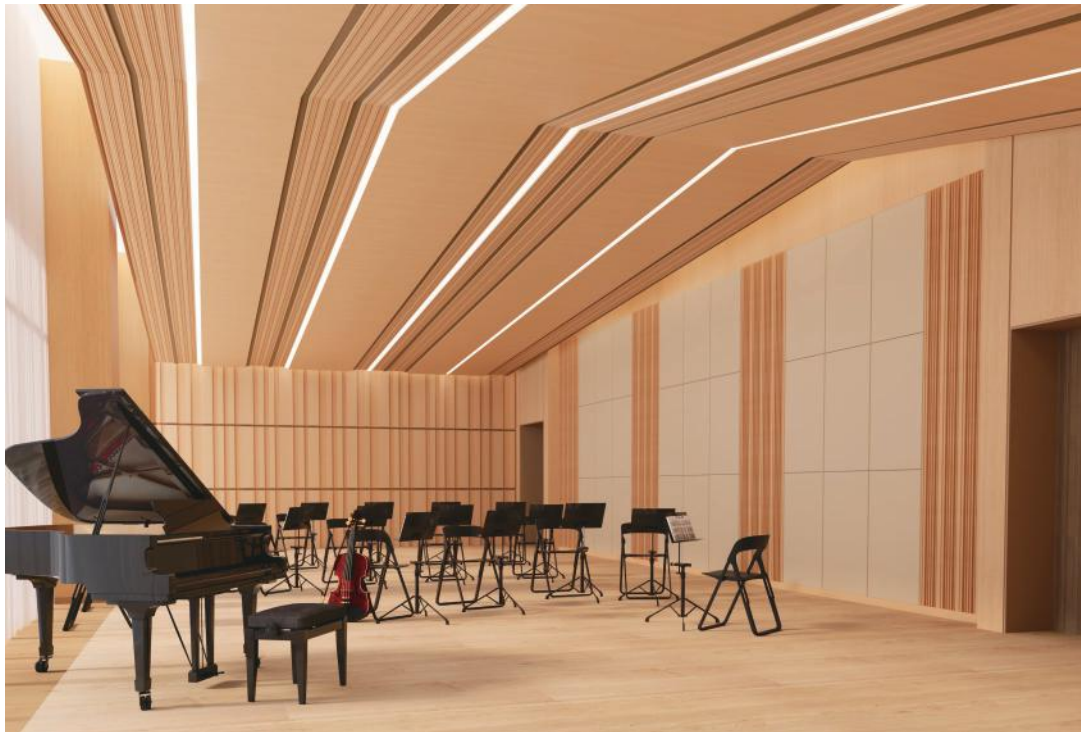


Acoustic Analysis:
Music rehearsal rooms without acoustic treatment may have sound field problems and acoustic defects such as echo and excessive reverberation, which can lead to distortion or confusion of the music. This makes it difficult for students to accurately hear their own voices and the voices 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 AQ5000H H6000+* W3340mm/set	—	
	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	—	
	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	
	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.				

	Name	Model	Specification	Weight	Weight(Color Chart Reference)
	2D Diffusion Unit	D8	L2440*W100*D27mm	—	
	Base material: Imported beech Finish: Original wood, red wood, walnut color 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 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				
	Movable Acoustic Baffle	AQ1000H/HD	AQ1000H: H2100*W800*D200mm AQ1000HD: H2000*W800*D100mm	AQ1000H 28kg 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.				
	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) 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 29/3 30/2 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.				
	Diffuser	PEAK 2000A / D	A:H2000 * W800/400 * D200mm D:H2000 * W800/400 * D200mm	A:W800≤42.5kg / W400≤32kg D:W800≤43.3kg / W400≤22kg	
	Base material: Carbon-plastic composite Finish: 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.				



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			
 Diffuser	PEAK 2000A 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			
 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



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 ≤1200*2400mm	HY2053-17



05

LIBRARY SOLUTIONS



Acoustic Analysis:
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.

PRODUCT INFORMATION




Name	Model	Specification	Weight	Weight(Color Chart Reference)
Movable silence booth	SR-S (F2)	W1000*D936*H2346mm	Net weight: 235kg	
	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       Handles  Interior color 
	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.



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
		SR-M(F4)	W1500*D1236*H2346mm
		SR-L(F6)	W2200*D1536*H2346mm



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
		SR-M(F4)	W1500*D1236*H2346mm
		SR-L(F6)	W2200*D1536*H2346mm



Product Applications

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



Product Applications

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





06



LECTURE HALL
& THEATER
SOLUTIONS



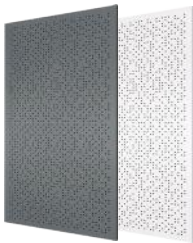
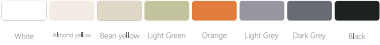
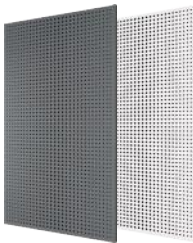
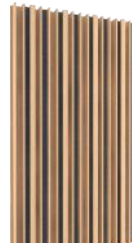
Acoustic Analysis:
The lecture hall and theater are mainly places where the school holds lectures, performances, performances, concerts and other activities. It usually has a large space and high ceilings, which can lead to echo and reverberation problems for the sound. Generally speaking, the reverberation 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 AQ5000H H6000*+ W3340mm/set	—	
	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	—	
	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				

	Name	Model	Specification	Weight	Weight(Color Chart Reference)
	Perforated acoustic panel	CK-1	L300/600*W600*D6mm 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 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 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 29/3 30/2 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 AQ1000HD: H2000*W800*D100mm	AQ1000H 28kg 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.				



Product Applications

Modle	Size	Color
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wall

Carbon polymer groove panels			
	30/2	2440*128*15mm	 KY263-13-1555
Fabric acoustic panel			
	CM30ET	≥300*300mm ≤1200*2400mm	 HY2053-17

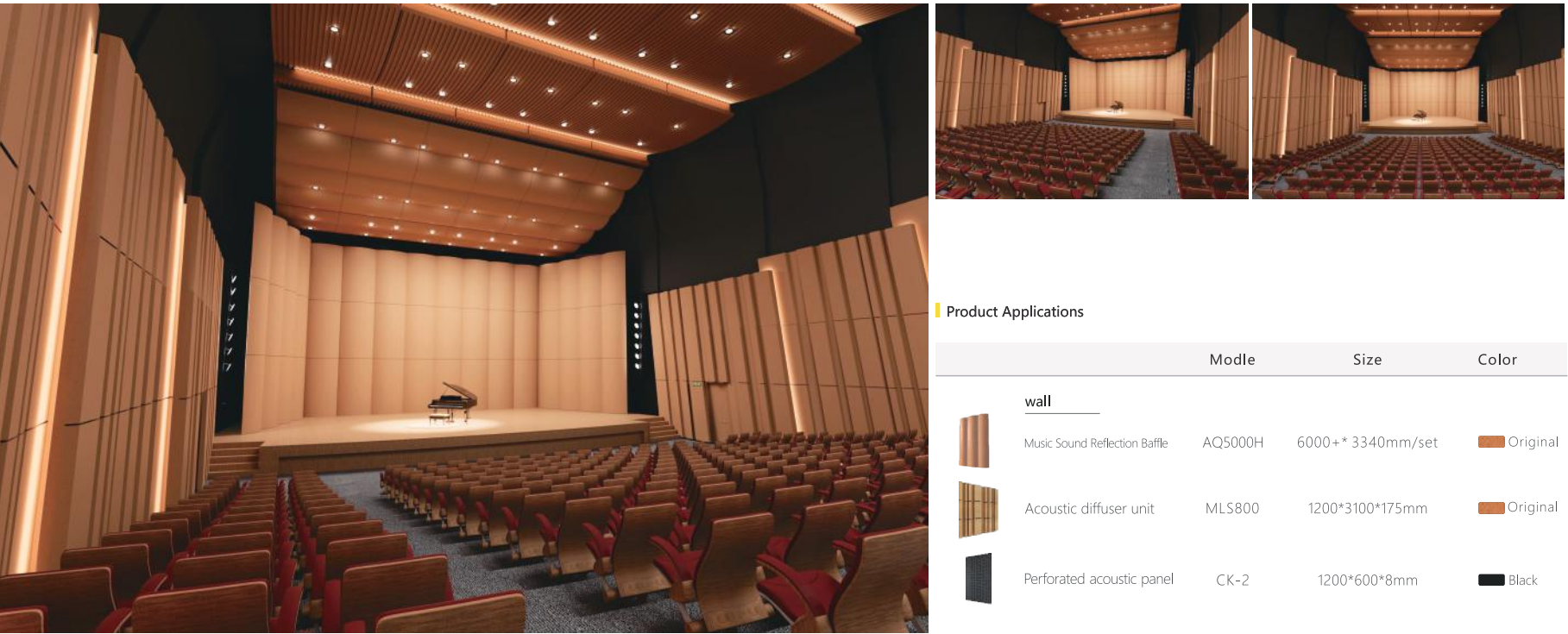


Product Applications

Modle	Size	Color
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wall

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

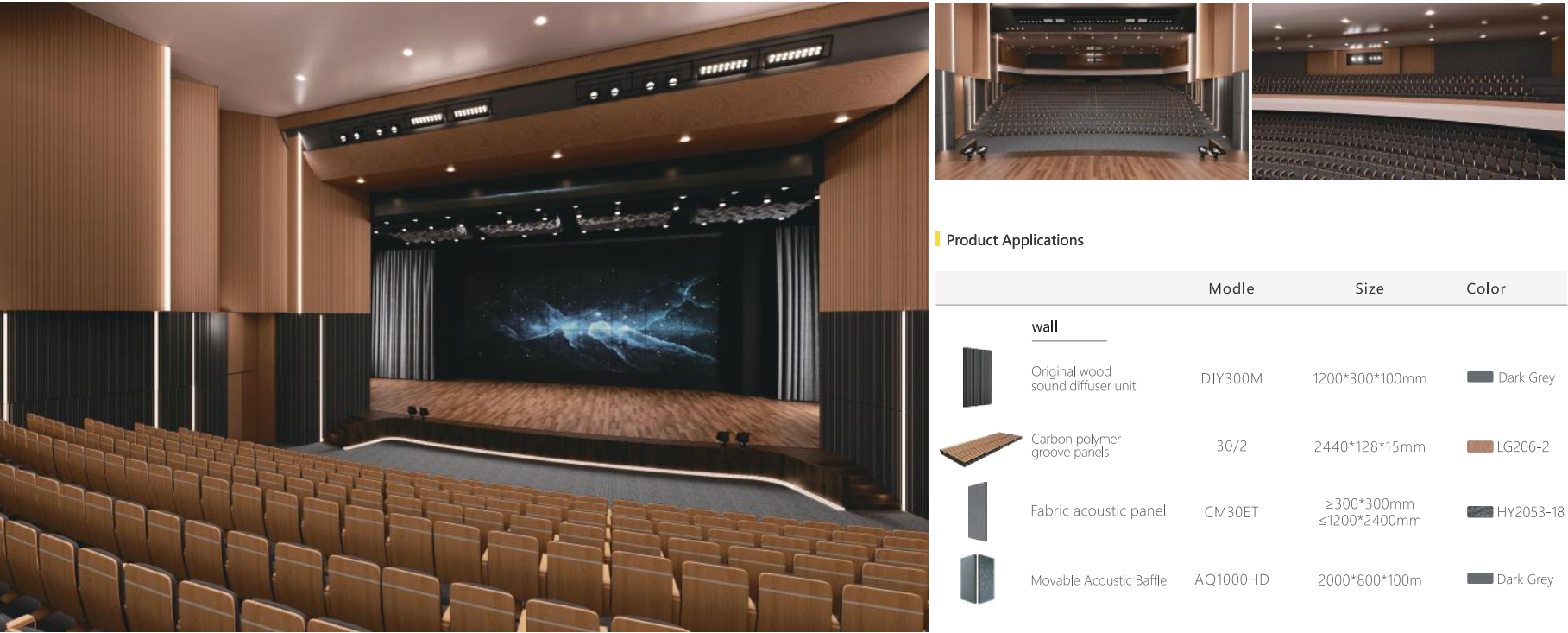


Product Applications

	Modle	Size	Color
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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

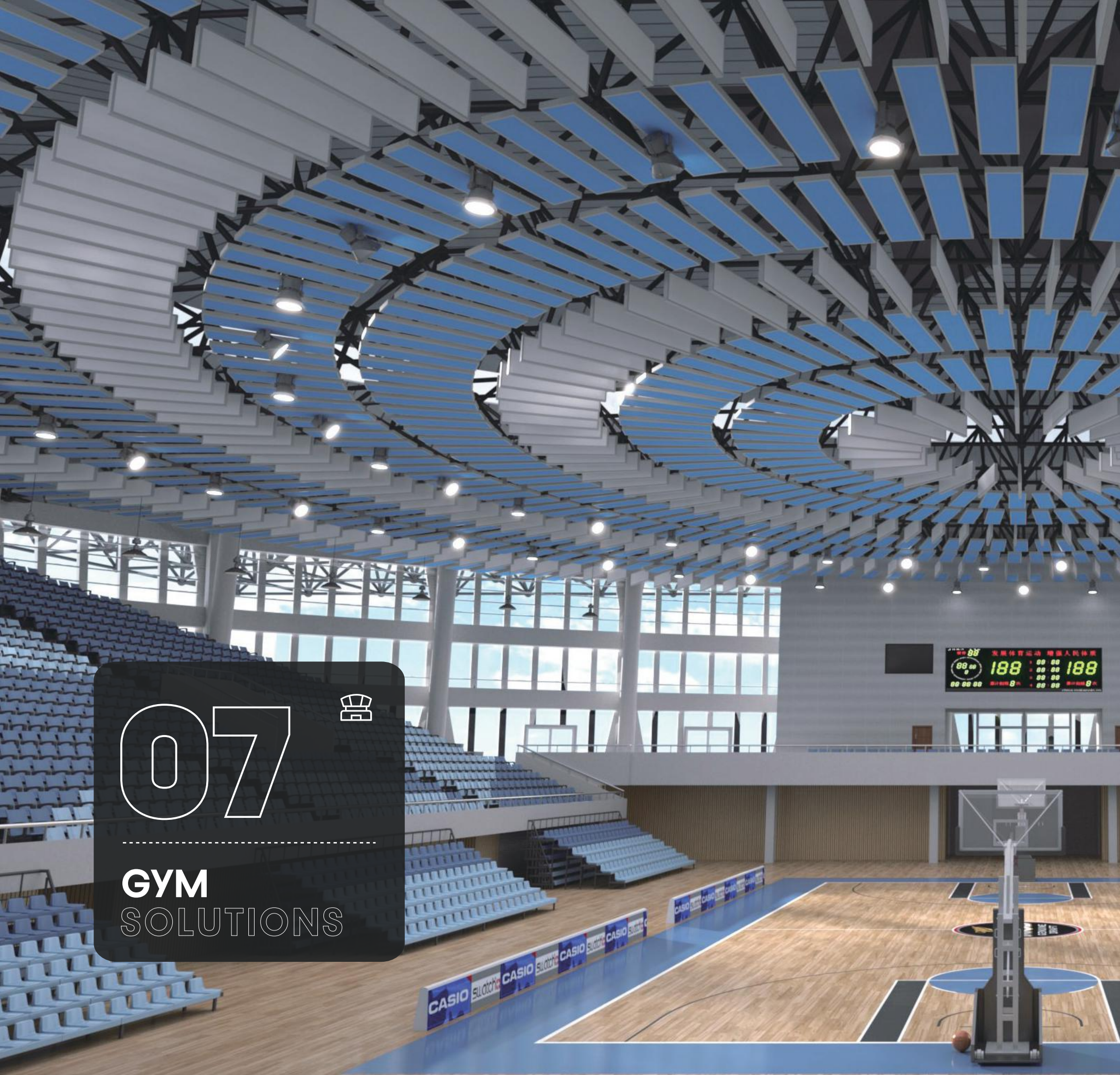


Product Applications

	Modle	Size	Color
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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



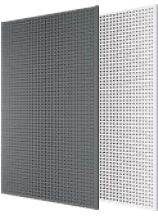
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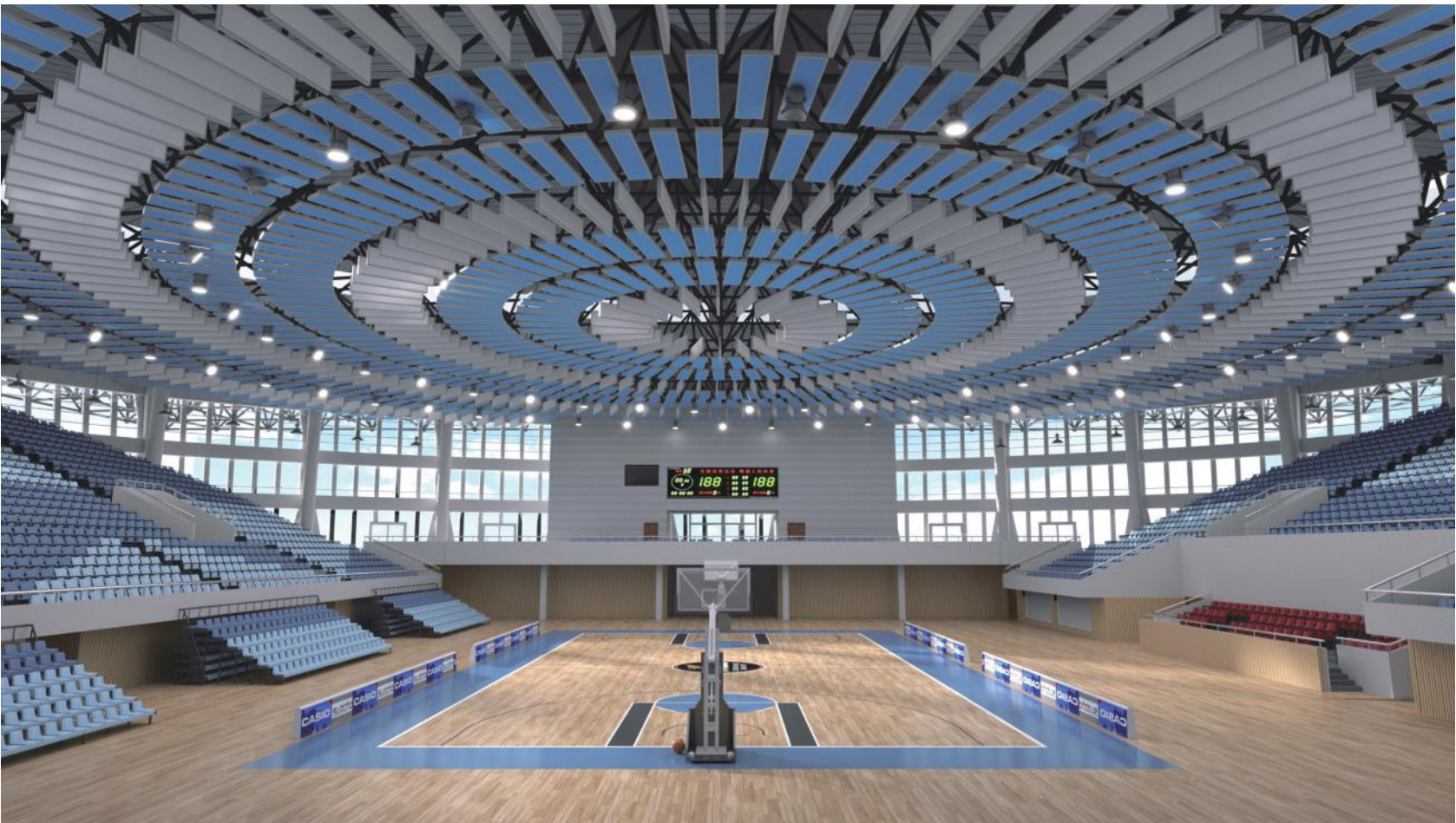
GYM
SOLUTIONS

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 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) facing: Flame-retardant acoustic fiberglass fabric 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 Finish: The gradual change of different aperture design, so that 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 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				
	Carbon polymer groove panels	6/2 9/2 14/2 29/3 30/2 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.				

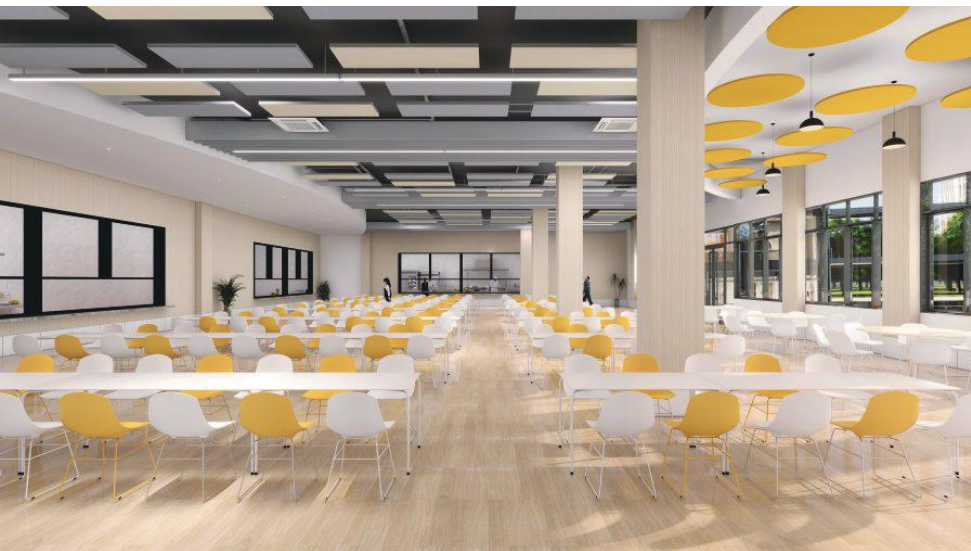


Product Applications					
	Modle	Size	Color		
ceiling					
Ceiling Acoustic Baffle					
	MT60	600*2400*60mm	 SBX-01		
			 SBX-13		
wall					
Carbon polymer groove panels					
	29/3	2440*128*15mm	 KY263-13-1555		
Matrix acoustic panel					
	CK-2	1200*600*8mm	 Light Grey		



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





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.

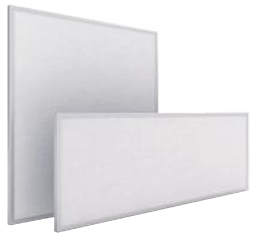
Restaurant acoustic treatment focus: ceiling sound absorption
Installation of acoustic baffles, acoustic soft packages and other sound-absorbing materials in the ceiling to achieve effective sound absorption and noise reduction for the restaurant, creating a good dining environment.



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.

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.				
	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.				
	Movable silence booth	SR-M (F4) SR-L (F6)	W1500*D1236*H2346mm W2200*D1536*H2346mm	Net weight : 390kg 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 Ent 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/m ² / 5kg/m ² / 5.5kg/m ² / 7kg/m ²	
	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.				



Product Applications

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



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  15-0701L



Product Applications

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



Product Applications

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



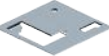
Product Applications

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



Product Applications

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

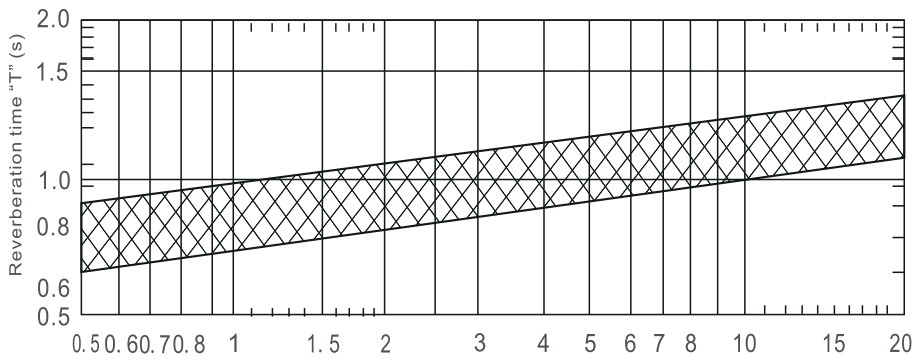
Appearance	Name	Model	Unit load(KG)	Color	Surface size	Applicable
L1-1 	Auxiliary keel	L1-1	≤15	Aluminum	W3000*L25*D20	Grooved acoustic panel
L1-2 	Installation insert	L1-2	≤10	Aluminum	W45*L40*D0.5	
L2-1 L3-1 	Main keel	L2-1	≤25	Aluminum	W3000*L48*D9	≤15mm Perforated Acoustic Panel/ Reflection Panel Thickness30 / 60 mm
	Edging keel	L2-2	≤25	Aluminum	W3000*L30*D9	
L2-2 L3-2 	Main keel	L3-1	≤30	Aluminum	W3000*L48*D12	≤50mm Perforated Acoustic Panel/ Reflection Panel 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
 80A 80B 50A 50B	Velcro	80A/80B	≤5	Black	Φ80	Walleasear Acoustic Panel
	Velcro	50A/50B	≤3	Black	Φ50	Walleasear 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

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.

(m³)	≤ 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.