



CATERLUX
Live an Illuminated life

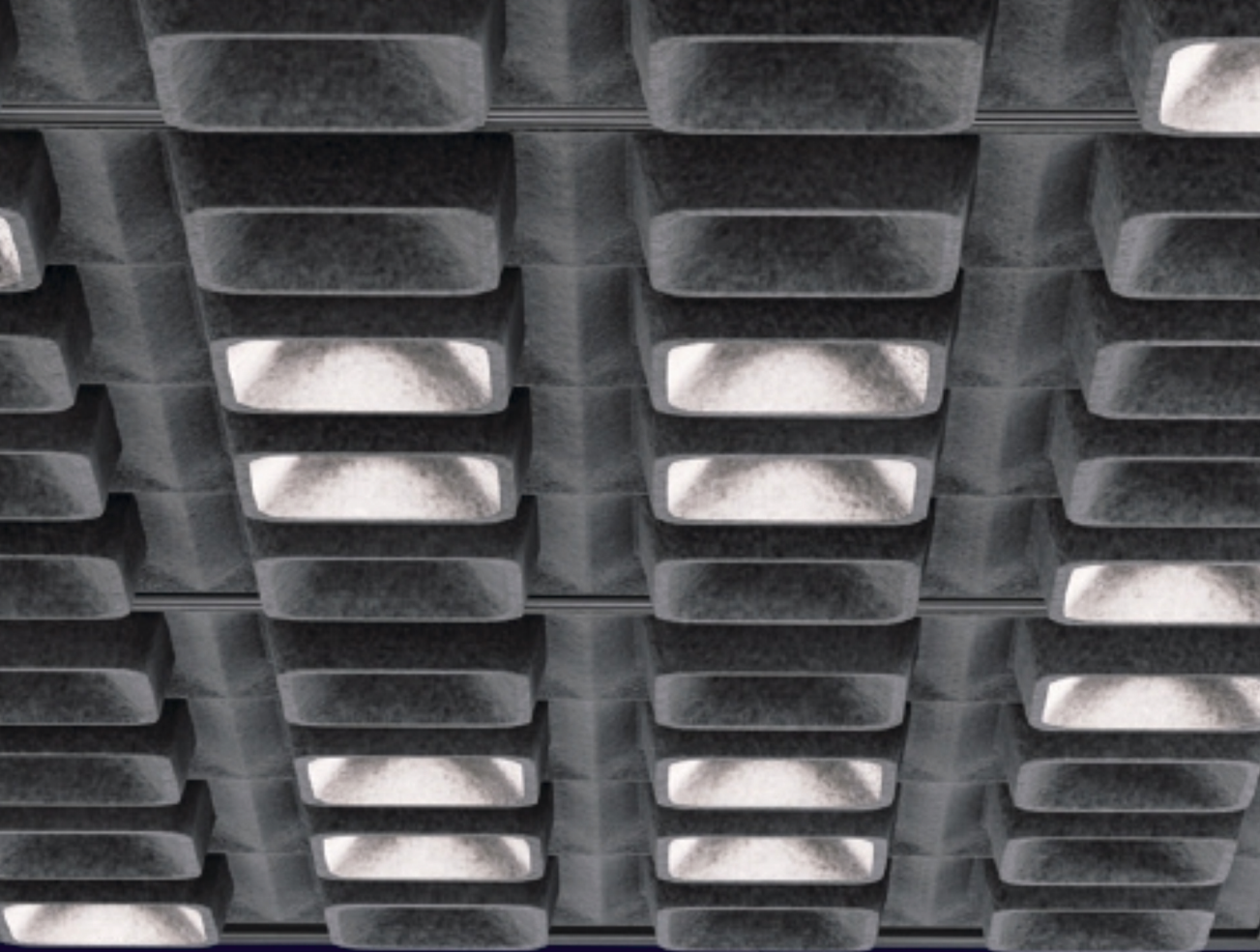


Acoustic Lighting

ACOUSTIC LIGHTING

The solution for office sound and light aesthetics involves multiple aspects, requiring comprehensive consideration and implementation from multiple perspectives such as noise control, application of sound insulation materials, utilization of natural light, design of artificial lighting systems, optimization of spatial layout, colour matching and decoration, assessment of sound and light environment, and continuous maintenance and adjustment. Through implementation of these measures, we can create a comfortable, peaceful, and vibrant office environment for employees, there by improving their work efficiency and quality of life.





ILLUMINATE YOUR SPACE WITH CATERLUX!

Caterlux, an architectural lighting brand widely known for its mighty presence which firmly believes in the philosophy of Make in India. Over the years we have built trust amongst our innumerable clients all over India and luxuriate in an enviable market, dominant across a wide spectrum of products which is inclusive of smart, domestic, and automation.

We offer innovative lighting solutions for residential and commercials. From LED lights to smart lighting systems, all are designed to enhance the ambience and functionality of your space. Trust Caterlux to bring the perfect illumination to your life.



STAR SERIES

The Star Series, an innovative combination of light and ceiling, is designed for modern offices and large open Spaces.

Abandoning the limitations of the traditional acoustic ceiling, the recycled polyester ceiling soundboard not only provides excellent sound absorption and noise reduction effect, but also ensures the uniform distribution of light, effectively avoiding glare and pollution problems.

Whether it is creating a dedicated work atmosphere or creating a comfortable rest area, The Star Series can create a personalized comfort environment for you

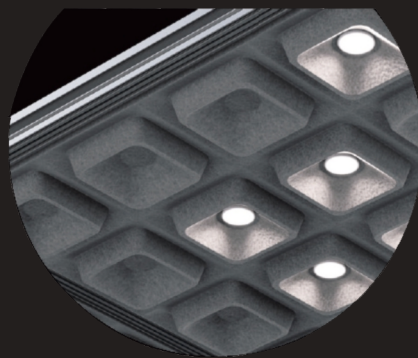


Star Series

Excellent sound absorption and noise reduction effect: The star series uses recycled polyester fiber sound absorption board, which has excellent sound absorption performance, can effectively reduce indoor noise, providing a more peaceful and focused working environment.

Uniform distribution of light: The design of the star ceiling takes into account the uniform distribution of light to ensure sufficient and soft light in the space, avoid glare and dark areas, and improve the comfort and visual experience of the space.

Environmentally friendly and recyclable: The use of recyclable polyester fiber materials not only reduces the consumption of natural resources, but also conforms to the concept of environmental protection, helping to promote green office and sustainable development



Star Series Advantage

The Star Series can effectively reduce noise levels, provide a comfortable and quiet indoor environment, and improve people's quality of life and work efficiency.

● INTEGRATED NOISE REDUCTION AND LIGHTING

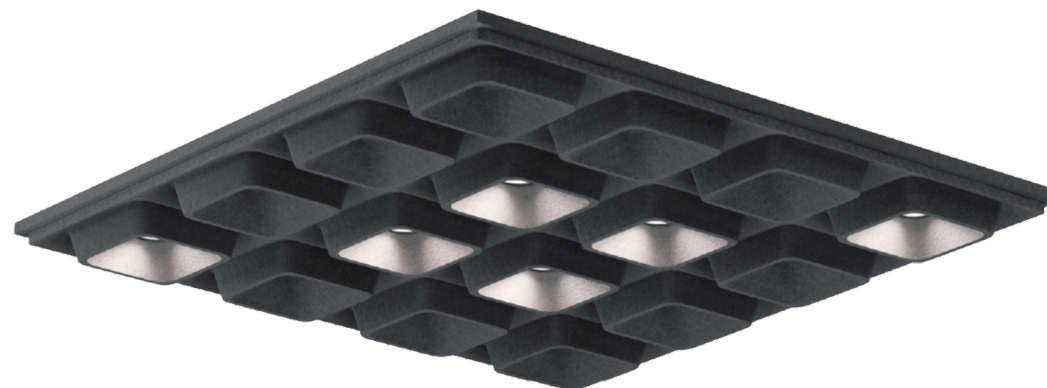
- Simplify the specification, ordering, delivery and installation processes
- The acoustic and optical modules are perfectly combined

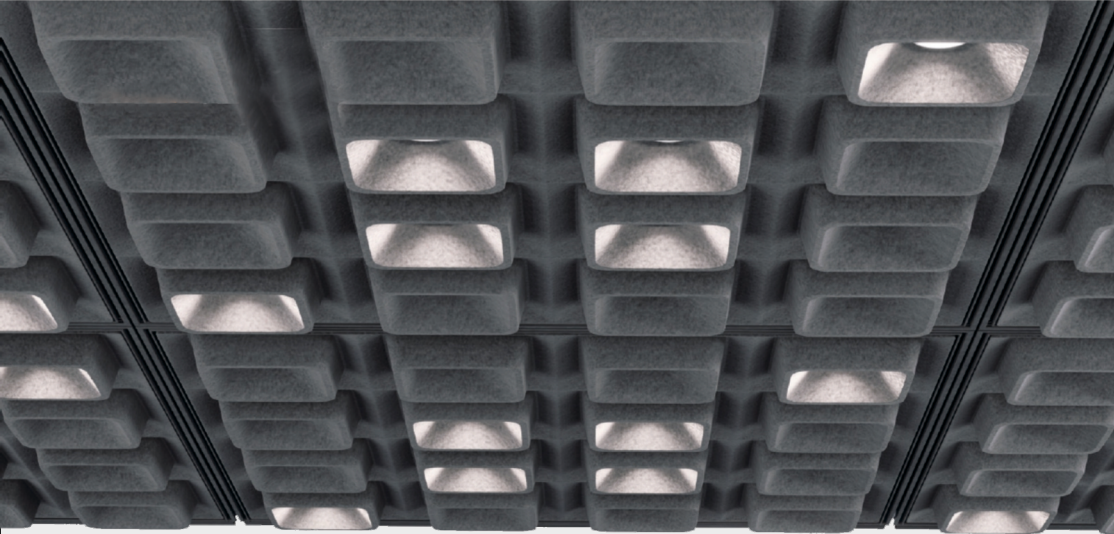
● CUSTOMIZED SERVICE

- Achieve personalized style customization and explore a variety of combinations
- Plan the acoustics and lighting requirements of the space

● STANDARD

- Standard size : 600* 600mm

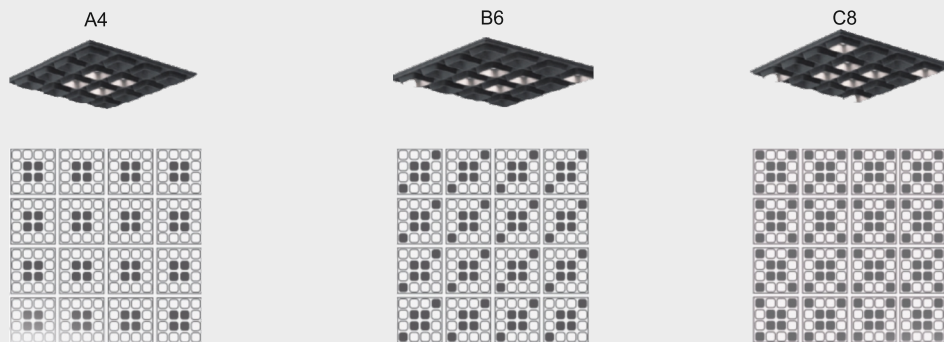




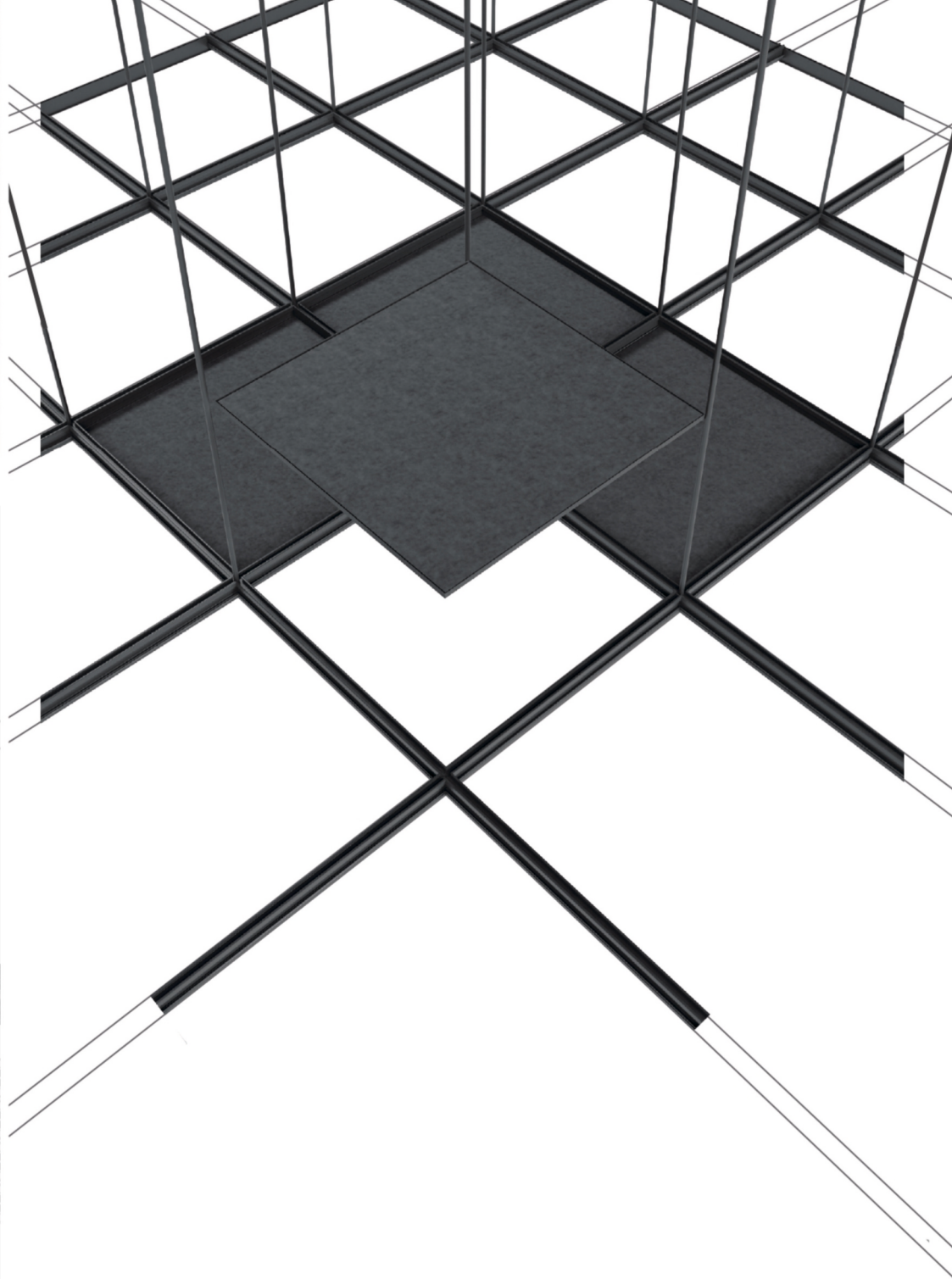
Randomly distributed lights

The design of the star ceiling is ever-changing, none of them is the same, and each one is unique and highlights its extraordinary personalized charm. You can choose your favorite design according to your preferences, or choose each template for clever integration to create a more unique art space

A variety of styles

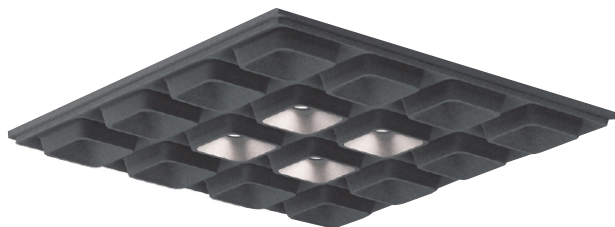


The star ceiling offers a variety of styles and flexible combinations to create a unique space atmosphere.



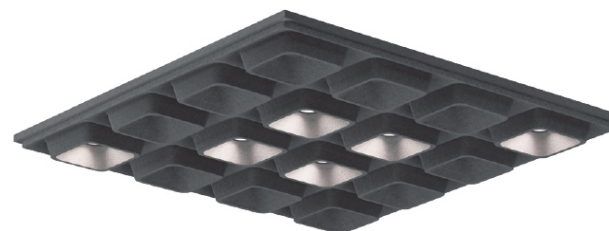


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Product parameter

Model	CTR-FX605605/A4
Standard specifications	605*605mm
Installation Method	Suspended ceiling
Material Quality	Polyester fiber
Appearance Color	Refer to the color palette
Light Source	Bridgelux
Power	4*3W/4*5W
Voltage	DC24V
color temperature	2700K/3000K/4000K/5000K
Display index CRI	≥90
Color tolerance SDCM	≤ 5
Protection Level	IP20



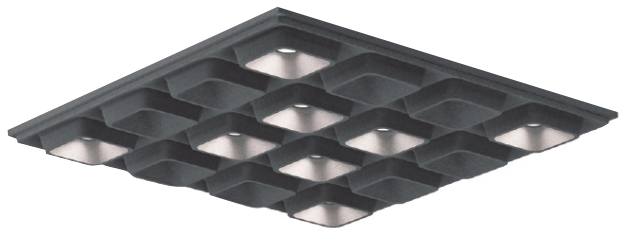
Product parameter

Model	CTR-FX605605/B6
Standard specifications	605*605mm
Installation Method	Suspended ceiling
Material Quality	Polyester fiber
Appearance Color	Refer to the color palette
Light Source	Bridgelux
Power	6*2W/6*3W
Voltage	DC24V
color temperature	2700K/3000K/4000K/5000K
Display index CRI	≥90
Color tolerance SDCM	≤ 5
Protection Level	IP20





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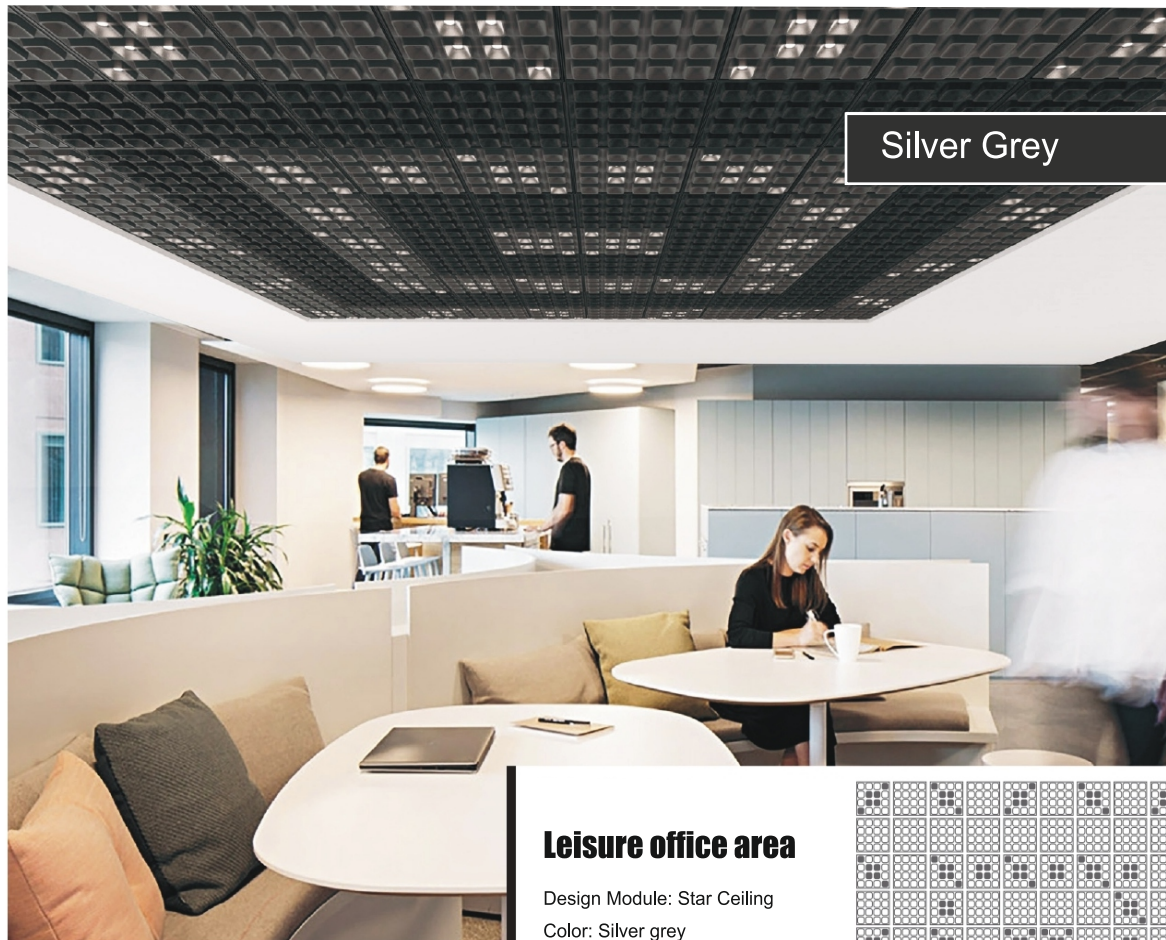


Product parameter

Model	CTR-FX605605/C8
Standard specifications	605*605mm
Installation Method	Suspended ceiling
Material Quality	Polyester fiber
Appearance Color	Refer to the color palette
Light Source	Bridgelux
Power	8*2W/8*3W
Voltage	DC24V
color temperature	2700K/3000K/4000K/5000K
Display index CRI	≥90
Color tolerance SDCM	≤ 5
Protection Level	IP20

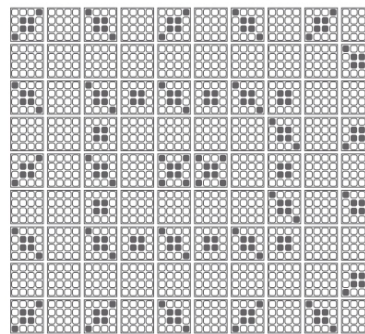


Leisure area



Leisure office area

Design Module: Star Ceiling
Color: Silver grey



Office

The star series works well in office and meeting rooms. First of all, its unique visual effects create a comfortable and peaceful working environment for employees, which helps to improve work efficiency and creativity. Secondly, the sound absorption and noise reduction function of the polyester fiber sound absorbing board effectively reduces the interference of indoor noise and provides a better communication environment for employees.

According to the actual situation of the office or meeting room, personalized star ceiling design. The density, colour and shape of the light can be adjusted according to the needs of the customer to achieve the best visual effect.



Office

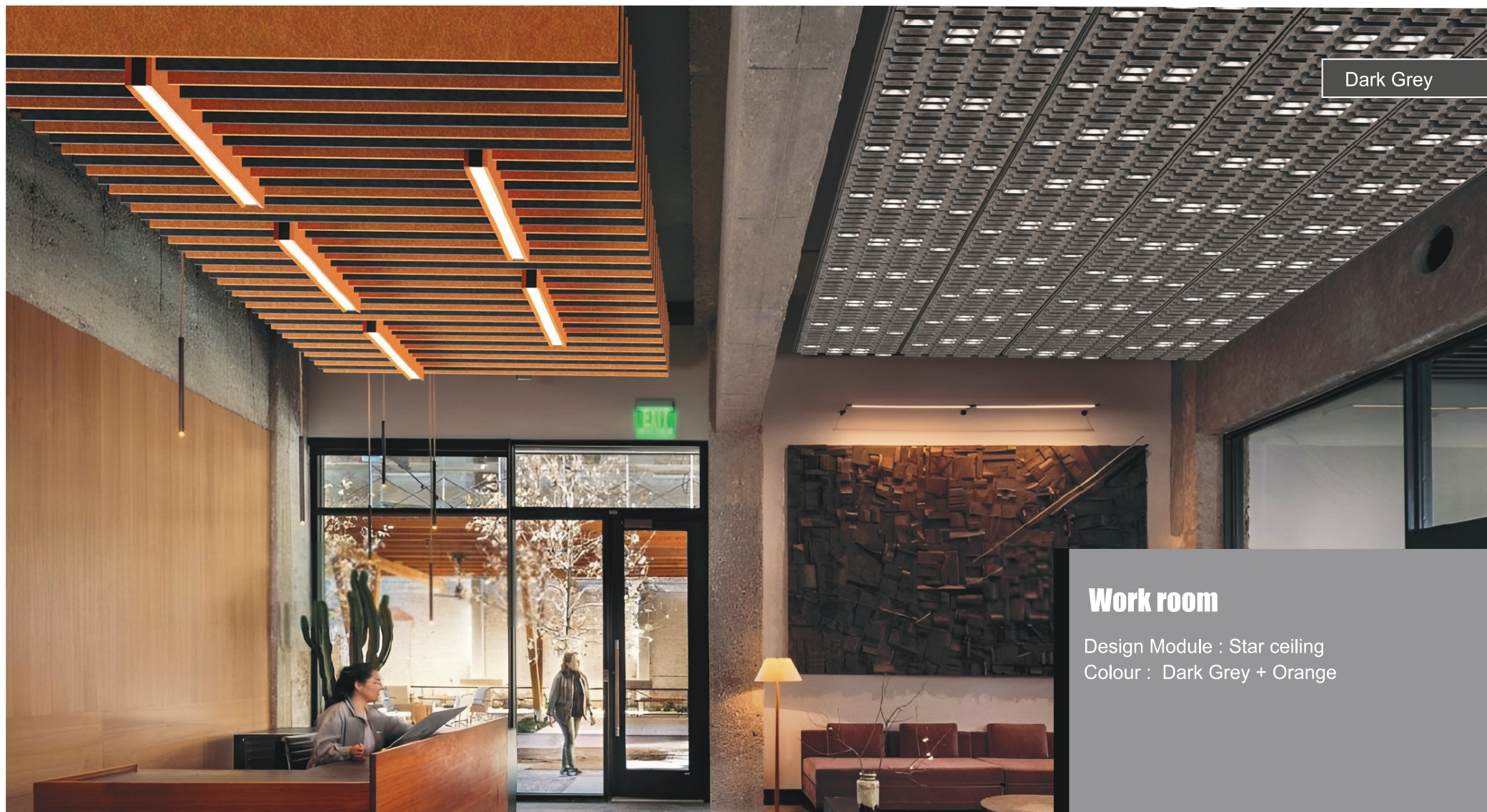


STAR, QUIET AND BEATIFUL



Personalized design

Contact us to customize your own personalized solution



Dark Grey

Work room

Design Module : Star ceiling
Colour : Dark Grey + Orange



Silver Grey

Work room

Design Module : Star ceiling
Colour : Silver Grey



Why is Polyester fiber an environmentally friendly material



Our polyester fiber sound-absorbing acoustic board is made by pressing discarded PET fibers, without methanol or odor. It is an environmentally friendly sound-absorbing building material that can effectively reduce the ecological pollution of PET on the Earth's environment.

What are the advantages of using Polyester fiber Sound-absorbing panels in acoustic lighting



Provide excellent sound absorption performance



Has certain breathability



Has good plasticity (compared to glass and aluminum)



Can effectively prevent mold



Having a certain period of fire prevention performance to isolate the spread of fire



Can be surface painted



Made from recycled plastics



Lightweight



Having rich colour



Easy and fast installation



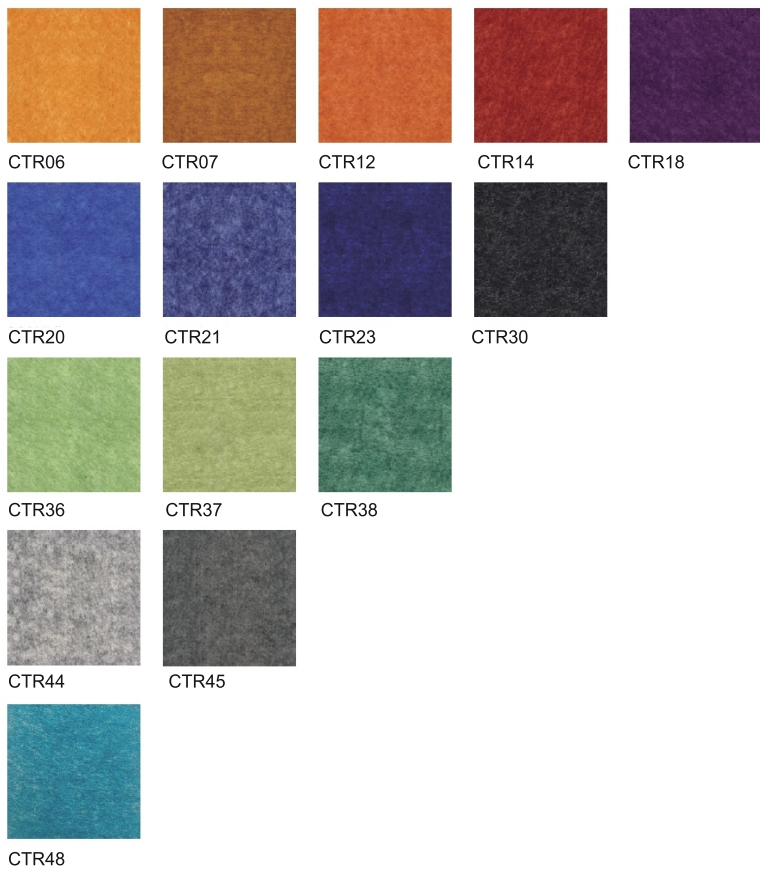
Adhesive without volatile organic compounds or formaldehyde



Not easily faded

AVAILABLE COLOUR

The colour depends on the delivery cycle and the changes in each batch. The following colours are for reference only and the actual shall prevail.



Characteristics of polyester fiber sound-absorbing board

Polyester fiberboard is a composite board made of polyester resin and fiber materials. This type of board has multiple significant characteristics, making it widely used in the field of architectural decoration. The following are the main characteristics of polyester fiberboard:

1. Strong decoration and diverse colors:

The surface of polyester fiberboard is dense and can be processed into various exquisite colored or three-dimensional patterns to meet different aesthetic needs. In addition, it is easy to cut and assemble, allowing for the free combination of patterns and shapes, greatly improving the flexibility and aesthetic taste of decoration.

2. Simple construction and convenient replacement:

The construction process of polyester fiberboard is relatively simple, and it can be directly pasted on walls or ceilings without the need for complex processing techniques. Meanwhile, due to its diverse specifications, it is easy to change shape and size, simplifying the construction process.

3. Sound absorption and thermal insulation, superior effect:

Polyester fiberboard has good sound absorption function due to its irregular network of dense pores. Its sound absorption spectrum is wide, and the peak sound absorption coefficient is high within a specific noise range. It can effectively reduce the propagation of noise and improve the comfort of indoor environment. At the same time, it also has certain insulation performance, which helps to reduce energy consumption.

4. Odorless and moldy proof, green and environmentally friendly:

Polyester fiberboard uses less harmful substances in the production process, and its formaldehyde release and radioactive index are better than national standards. The product itself has the characteristics of dust-proof, anti-fouling, and anti-mold, which will not cause harm to human health. It is a truly green and environmentally friendly product.

4. Fire safety and performance standards:

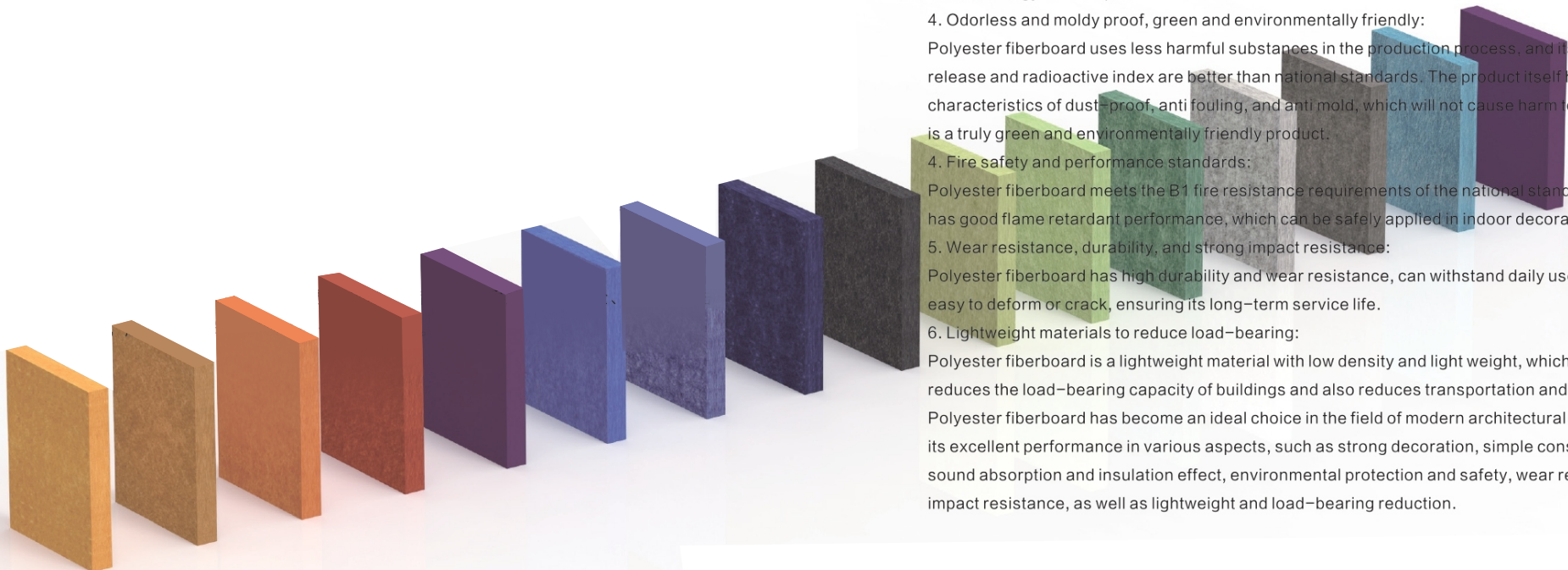
Polyester fiberboard meets the B1 fire resistance requirements of the national standard GB8624 and has good flame retardant performance, which can be safely applied in indoor decoration.

5. Wear resistance, durability, and strong impact resistance:

Polyester fiberboard has high durability and wear resistance, can withstand daily use and wear, is not easy to deform or crack, ensuring its long-term service life.

6. Lightweight materials to reduce load-bearing:

Polyester fiberboard is a lightweight material with low density and light weight, which effectively reduces the load-bearing capacity of buildings and also reduces transportation and installation costs. Polyester fiberboard has become an ideal choice in the field of modern architectural decoration due to its excellent performance in various aspects, such as strong decoration, simple construction, good sound absorption and insulation effect, environmental protection and safety, wear resistance and impact resistance, as well as lightweight and load-bearing reduction.



Combustion performance testing

Test method	Experimental parameters	Sample quantity	Test result
Individual combustion test of building materials of products	Combustion growth rate index $FIGRA_{0,2MJ}(W/s)$	3	51.4
	Combustion growth rate index $FIGRA_{0,4MJ}(W/s)$		40.5
	Lateral flame propagation LFS>specimen edge		Yes
	Total heat release in the first 600 seconds $THR_{600s}(MJ)$		1.9
	Smoke generation rate index $SMOGRA(m^2/s^2)$		2.1
	Total smoke production in the first 600 seconds $TSP_{600s}(m^2)$		16.9
	Is there any combustion droplets/particles within 600 seconds [If so, combustion time; ($\leq 10s/10s$)]	12	□ Nothing
	60s internal flame tip height F_{ss} 150mm		Yes
	Does the combustion droplets within 60 seconds ignite the filter paper		NO

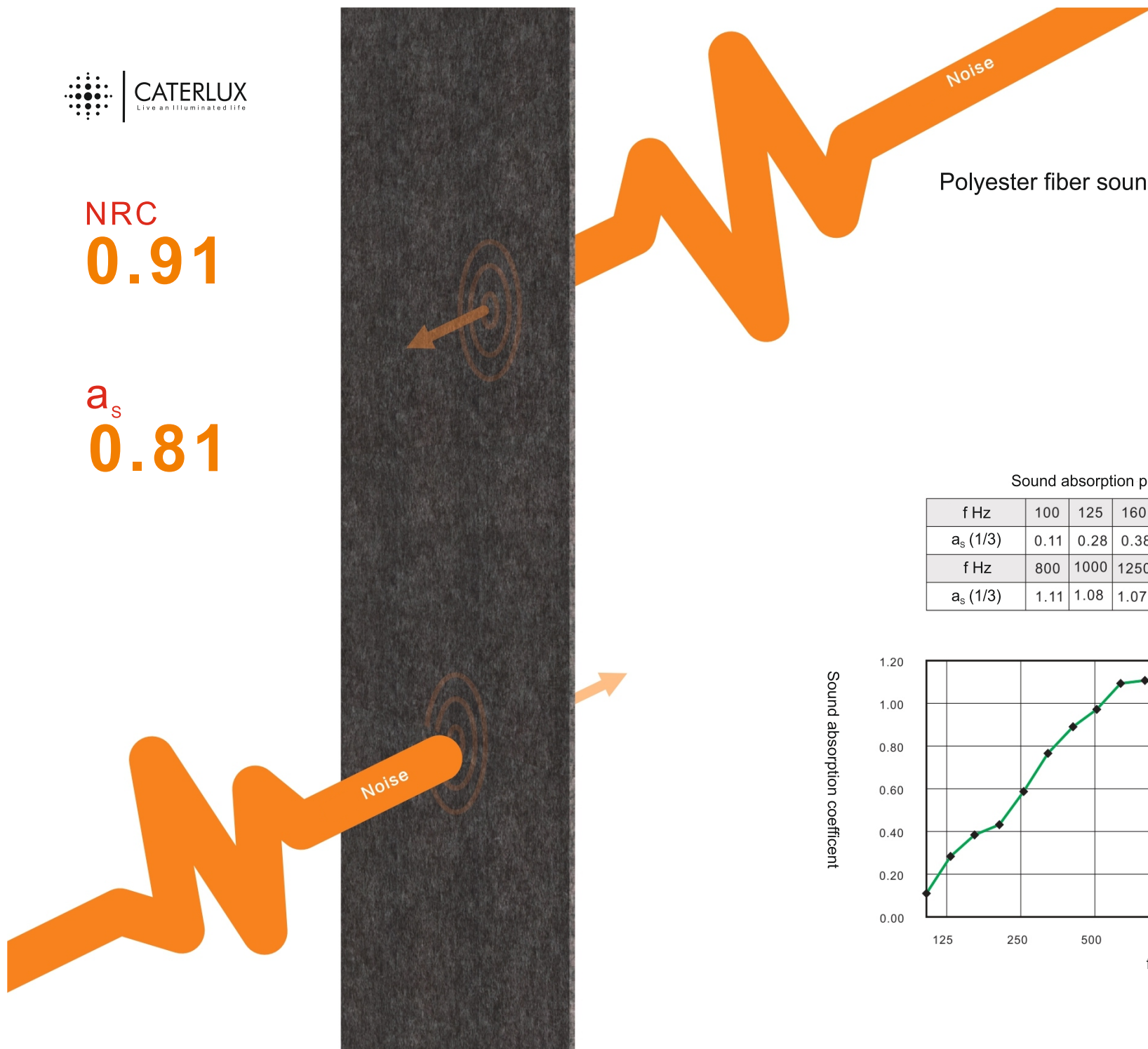
The test results meet the combustion performance level B1 (B)

Burning performance grades and grading criteria for building materials and products

Combustion performance level		Grading criteria
A	A1	Furnace temperature rise $\Delta T_{S30} 30^\circ C$ Loss rate $\Delta m \leq 50\%$ Continuous combustion time $t_c=0$
		Total calorific value $PCS \leq 2.0 MJ/kg^{a,b,c}$ Total calorific value $PCS \leq 1.4 MJ/m^2d$
	A2	Furnace temperature rise $\Delta T_{S50} 50^\circ C$ Loss rate $\Delta m \leq 50\%$ Continuous combustion time $t_c=20s$
		Total calorific value $PCS \leq 3.0 MJ/kg^{a,b}$ Total calorific value $PCS \leq 4.0 MJ/m^2B,d$
B1	B	Combustion growth rate index $FIGRA_{0,2MJ} \leq 120 W/s$. The lateral spread of flames did not reach the edge of the long wing of the sample. Total heat release of 600s $THR_{600s} \leq 7.5 MJ$.
		60s internal flame tip height $F_s \leq 150mm$ No combustion droplets ignite filter paper within 60 seconds
	C	Combustion growth rate index $FIGRA_{0,4MJ} \leq 250 W/s$. The lateral spread of flames did not reach the edge of the long wing of the sample. Total heat release of 600s $THR_{600s} \leq 15 MJ$.
		60s internal flame tip height $F_s \leq 150mm$ No combustion droplets ignite filter paper within 60 seconds
B2	D	Combustion growth rate index $FIGRA_{0,4MJ} \leq 750 W/s$.
	E	60s internal flame tip height $F_s \leq 150mm$ No combustion droplets ignite filter paper within 60 seconds
B3	F	20s internal flame tip height $F_s \leq 150mm$
a. The main components of homogeneous or nonuniform products. b. External secondary components of non-uniform products. c. When the PCS of external secondary components is $\leq 2.0 MJ/m^2$, and the $FIGRA_{0,2MJ}$ of the overall product is $\leq 20 W/s$, LFS<specimen edge, If $THR_{600s} \leq 4.0 MJ$ and reaches levels s 1 and do, it reaches level A1. d. Any internal secondary component of a non-uniform product. e. Integrated product.		
For wall insulation foam plastics, in addition to meeting the provisions in Table 2, the following requirements shall also be met: Grade B oxygen index $OI \leq 30\%$; Grade Bz oxygen index $OI > 26\%$. The experimental standard is GB/T2406.2.		

NRC
0.91

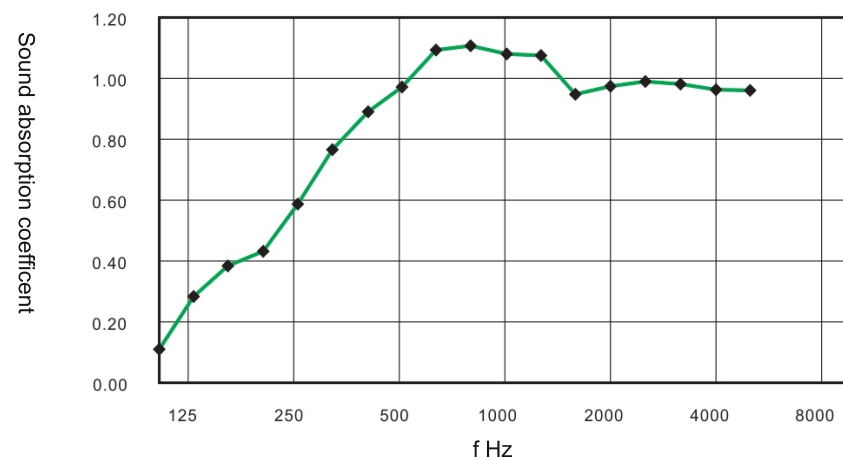
a_s
0.81



Polyester fiber sound absorption performance

Sound absorption performance test of reverberation room

f Hz	100	125	160	200	250	315	400	500	630
a_s (1/3)	0.11	0.28	0.38	0.43	0.58	0.76	0.89	0.97	1.09
f Hz	800	1000	1250	1600	2000	2500	3150	4000	5000
a_s (1/3)	1.11	1.08	1.07	0.95	0.97	0.99	0.98	0.96	0.96



Notes



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