

- 01 Polycarbonate (PC) Endurance Plate Series
- 02 Polycarbonate (PC) Light diffusion plate

PRODUCT FEATURES



透光性

light transmittance

透光率可达89%

The transmittance can reach 89%



抗风压

Anti wind pressure

达国标GB/T706-2008

Meet the national standard
GB/T706-2008

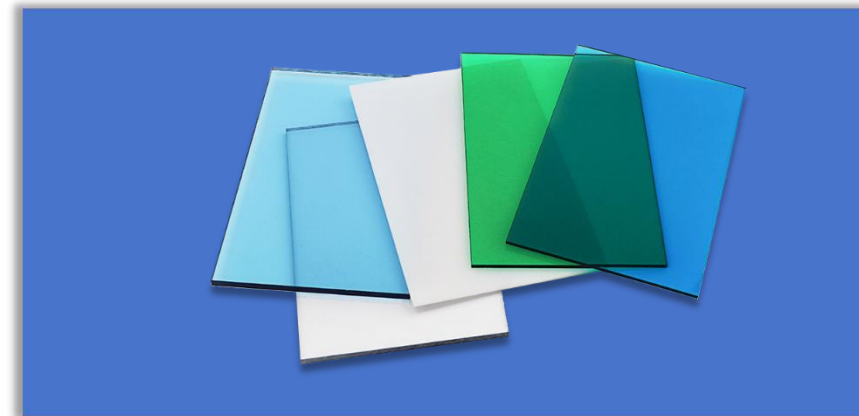


可弯曲

bendable

可塑性强，易安装

Strong plasticity, easy to handle



防紫外线

UV protection

含UV材料，抗紫外线

Containing UV materials, UV
resistant



阻燃

flame retardant

B1级阻燃，离火自熄

B1 level flame retardant, self
extinguishing upon ignition



隔热

thermal insulation

节能量是玻璃的1.7倍

Energy saving is 1.7 times that of
glass



温度适应性

Temperature adaptability

-40度-120度，保持性能稳定

-40-120 degrees, maintaining stable
performance

LINKQ-PC Series



Polycarbonate Endurance Plate Series

Contact info

Email : lynn@linkqgroup.com

WhatsApp : +86 19879906303

Polycarbonate Endurance Plate Series



High Transparency



Wear-resistant
and impact-resistant



High flexibility



PC endurance board (also known as PC, polycarbonate, solid board, bulletproof glass, kablon board, solid board, aviation perspective board) is made of high-performance engineering plastic polycarbonate or polycarbonate acid ester.

It is a new type of environmentally friendly, strong and durable, waterproof, transparent, and energy-saving engineering material with outstanding comprehensive performance. It can be processed by cold and hot bending, with uniform color, stability, light shielding, good thermal insulation, stable material, long service life, and long service life. Widely used for lighting, road sound insulation, plant insulation, and indoor partitioning in buildings such as residences, trade shows, and public facilities.

Product specifications

Thickness	Width	Specification Value	Colors
1.0-15mm	1.22m 1.56m 1.82m 2.10m	30m 60m *30m and 60m are roll materials and thickness is suggested to below 4.5mm	transparent ocean blue glass green light brown white grey
	maximum up to 2.1m can be customized if it's in a big quantity	*Above 5mm is flat material and is for flatbed use (flat material configuration: 1.22m*2.44m)	special color can be customized if it's in a big quantity

Application

Suitable for industrial protection, factory lighting and rain shelters, station, airport, port, and tunnel entrance rest halls, pedestrian walkway canopies, gardens, agricultural greenhouses, and livestock sheds, sports venues and amusement facilities canopies, parks, residential community rest pavilions, corridor canopies, advertising signs, highway and urban overpass sound barriers, indoor partitions, and architectural decoration.



Subway station



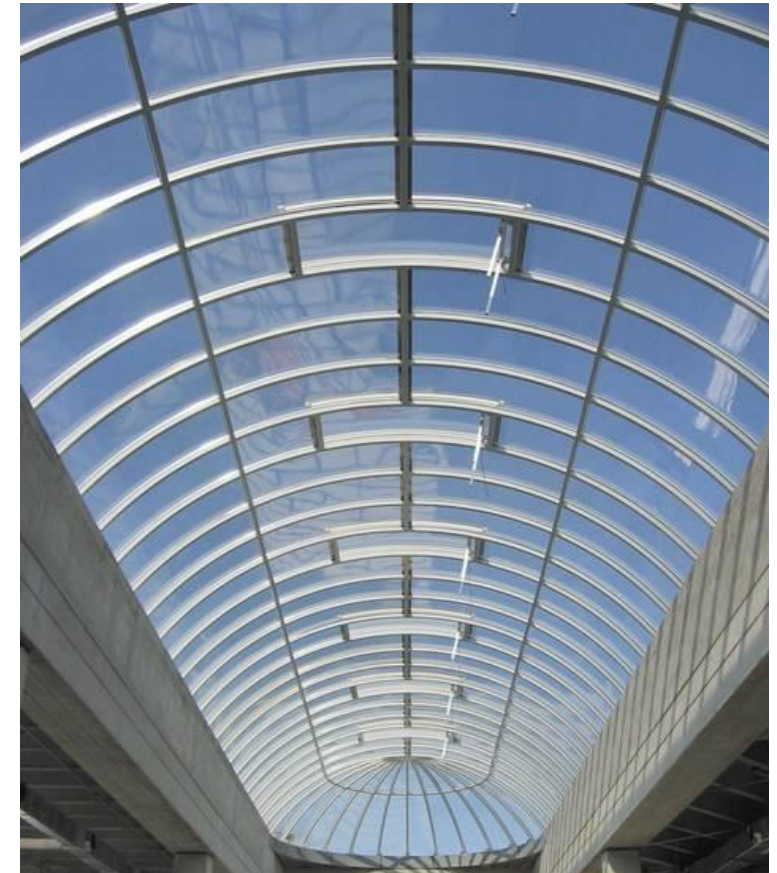
Outdoor decoration



Advertising board



Railroad noise barrier



Outdoor Walkway Canopy

LINKQ-PC Series



Polycarbonate PC Light diffusion plate

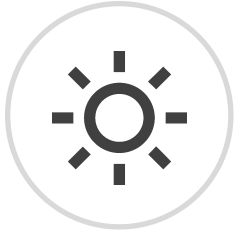


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Polycarbonate PC Light diffusion plate



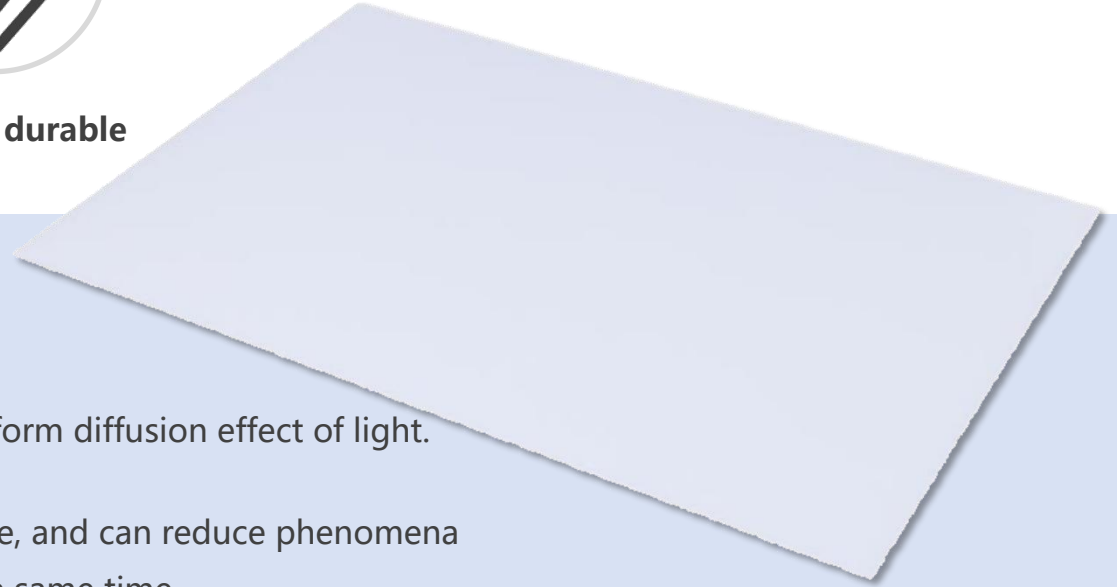
high light transmittance



Strong load-bearing capacity



more durable



Polycarbonate PC light diffusion board utilizes the continuous refraction, reflection, and scattering of transmitted light between chemical particles and resin to form a uniform diffusion effect of light.

It is characterized by sufficient transparency and light diffusion, high scratch resistance, and can reduce phenomena such as bright spots, dots, bright lines, and unevenness in the light guide plate. At the same time, it improves the uniformity of the backlight source through the light scattering effect of the board, thereby obtaining a new type of optical material for uniform surface illumination.

Application

Suitable for transparent and uniform panels of various luminescent products, such as LED lamps, LED electronic displays, electronic display boards, digital tubes, dot matrix modules, medical machinery, product display cabinets, bar counters, and PC light source covers and covers made into various shapes through thermal processing.



office ceiling



projection screen



light diffuser



signage



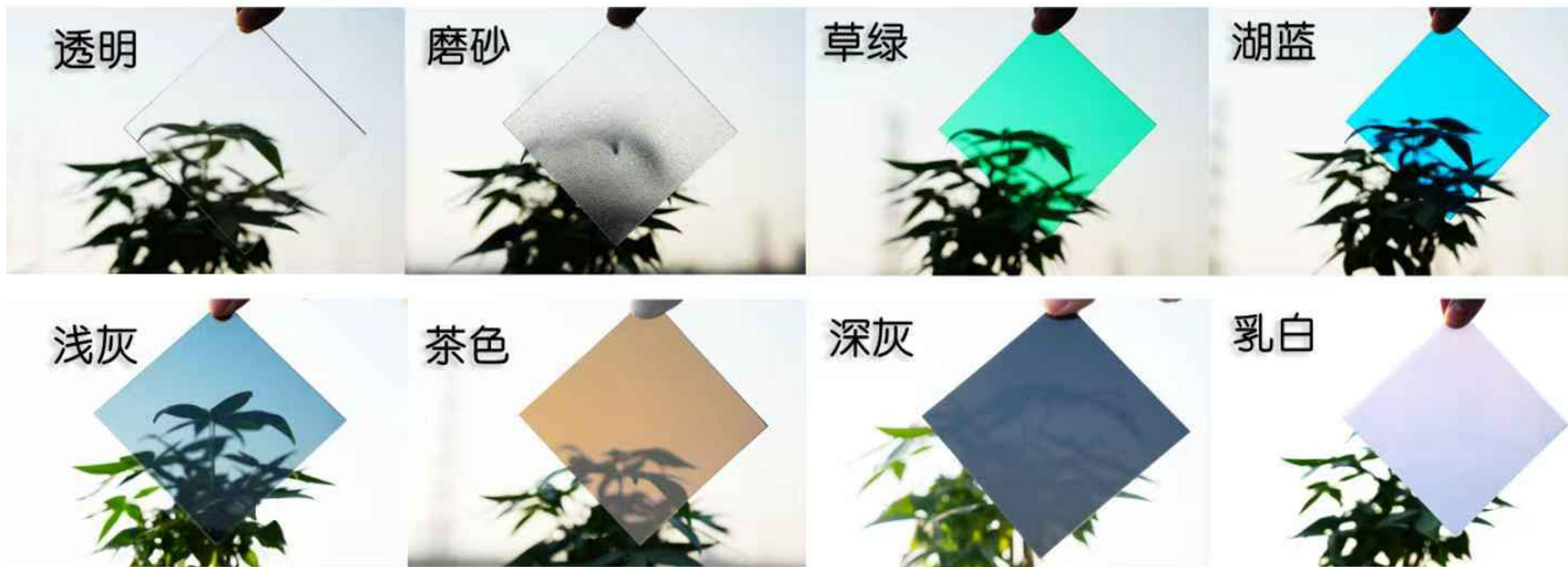
LED electronic display

04



Product Introduction

Product color



Note: There may be color differences between the image and the actual product; colors are subject to the actual item.

Product ingredients

Imported new
materials



拜耳·科思创



沙比克

Domestic new
materials



Comparison of raw materials of different ages

The physical properties of PC endurance boards and PC sunshine boards produced from polycarbonate recycled materials have been compromised due to prolonged aging of the materials. So PC endurance boards made from recycled materials have poor impact resistance, are prone to cracking, and have poor transparency, resulting in yellowing of the board surface. It is very easy to break during drilling.

The PC endurance board made of domestically produced new materials can be used for at least 5 years without deformation or cracking;
The PC endurance board made of imported new materials can be used for more than 10 years without deformation or cracking and the color is as durable as new.



After using PC endurance boards made from recycled materials for a period of time



After using the PC endurance board made of new raw materials for a period of time

How to distinguish between PC and PET



Some manufacturers on the market use PET material to impersonate PC material.

PET is not resistant to high temperatures and if PET material is used outdoors to make sheets, they will deform and fall off at a certain temperature, causing safety hazards.

■ Boil with hot water

PC is heat-resistant and non-toxic, and under normal conditions, products below 120 ° C will not deform. PET is not resistant to high temperatures and can emit toxic substances when exposed to heat.

■ Boil with hot water

Bend the PC endurance board by hand and repeatedly fold it back and forth for about 20 times, it will break. Bending PET board by hand gives it a more resilient feel, and it can be folded back and forth 200 times without breaking.

Product performance indicators

Property	Unit	Value
Specific Gravity	g/cm3	1.2
Light Transmittance	%	88
Impact Strength	J/m	850
Flexural Strength	N/mm2	100
Tensile Strength	N/mm2	>=60
Elastic Modulus	MPa	2400
Tensile Stress at Break	MPa	>=65
Elongation at Break	%	>100
Specific Heat	kJ/(kg K)	1.17
Thermal Conductivity	W/(m K)	0.2
Heat Deflection Temperature	C	140
Thermal Expansion Coefficient	mm/(m C)	0.067
Service Temperature	C	-40 to 120

如何区分好坏

How to distinguish between good and bad

看透明度

较好的PC板透明度可达89%左右，透明度越低其回收料添加的越多（更有甚者添加非PC材料），劣质PC板颜色暗淡无光。

撕膜看板

表面无杂质、无颗粒物的PC板是全新料生产，比较多晶点、异物的就是采用回收料制成的，原料越差杂质越明显，板材质量也就越差。

色差

采用进口全新料制成的产品，一般颜色都很鲜艳明亮，而使用回收料制成的产品，即使是透明板的色泽也会偏黄，有色PC板则色泽不鲜艳、暗淡无光

看平整度

平整度好的板材一方面说明上下壁较厚，用料足，不易变形；如果PC板表面出现波浪纹状态，说明板材工艺质量不好。

如何区分好坏

How to distinguish between good and bad

How to Identify Quality PC Sheets

Check Transparency

High-quality PC sheets can reach about 89% transparency. Lower transparency usually indicates more recycled content. Inferior sheets appear dull and dark.

Remove the Film and Inspect

Sheets with clean, particle-free surfaces are made from virgin material. More crystal points or foreign matter indicate recycled material and lower quality.

Check Color Consistency

Products made from imported virgin resin are bright and vivid. Recycled-material sheets often look yellowish; colored sheets appear dull and lack brightness.

Check Flatness

Good flatness usually indicates thicker walls and sufficient material, making the sheet less likely to deform. Wavy surfaces suggest poor processing quality.

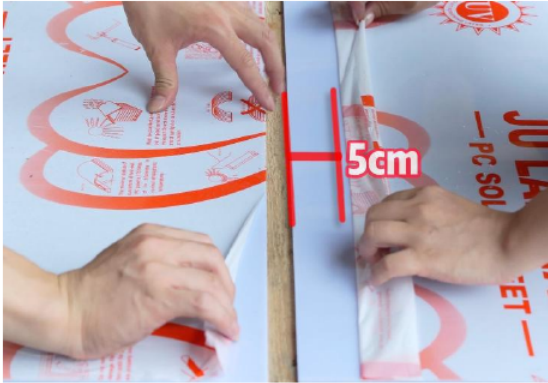
05



Installation Process

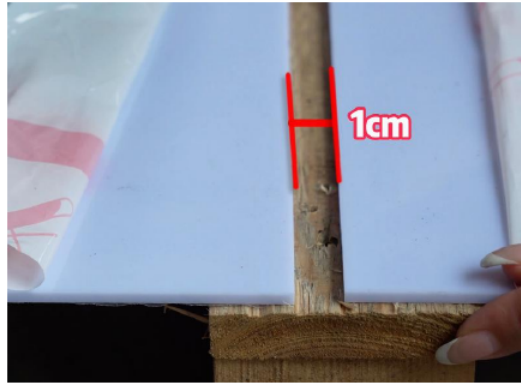


Installation Process



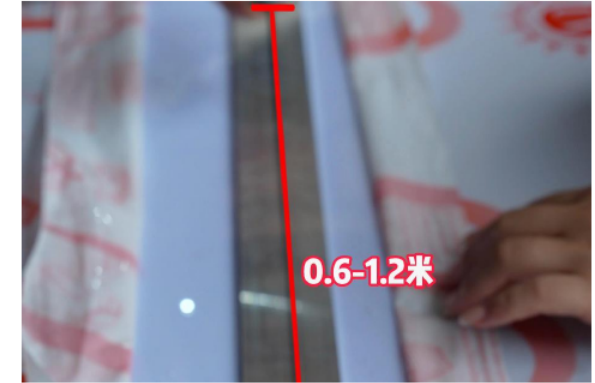
01 Peel Back Protective Film

Peel back about 5 cm around fastening areas.



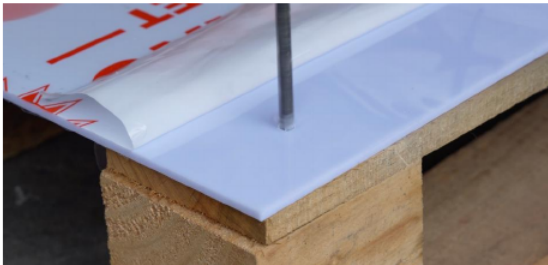
02 Join with Cover Strips

Leave at least a 1 cm gap for fastening.



03 Screw Spacing

Fasten every 0.8-1.2 m using self-tapping screws and washers.



04 Pre-drill Holes

Make holes 3 mm larger than screws. Do not fasten curved areas. Use silicone or neutral-cure sealant. Avoid acidic sealant and paint. Remove protective film after installation to prevent scratches.



05 Apply Sealant



06 Remove Film



Engineering Case



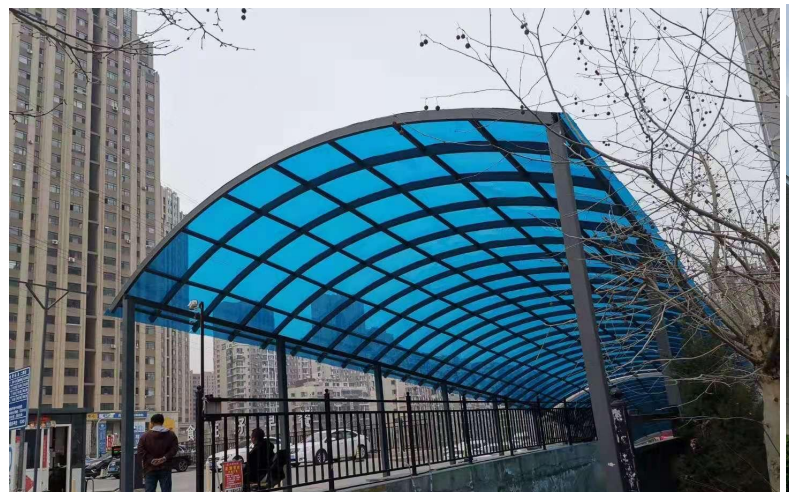
Engineering Case



farmers market (transparent+ocean blue)



school decor (transparent)



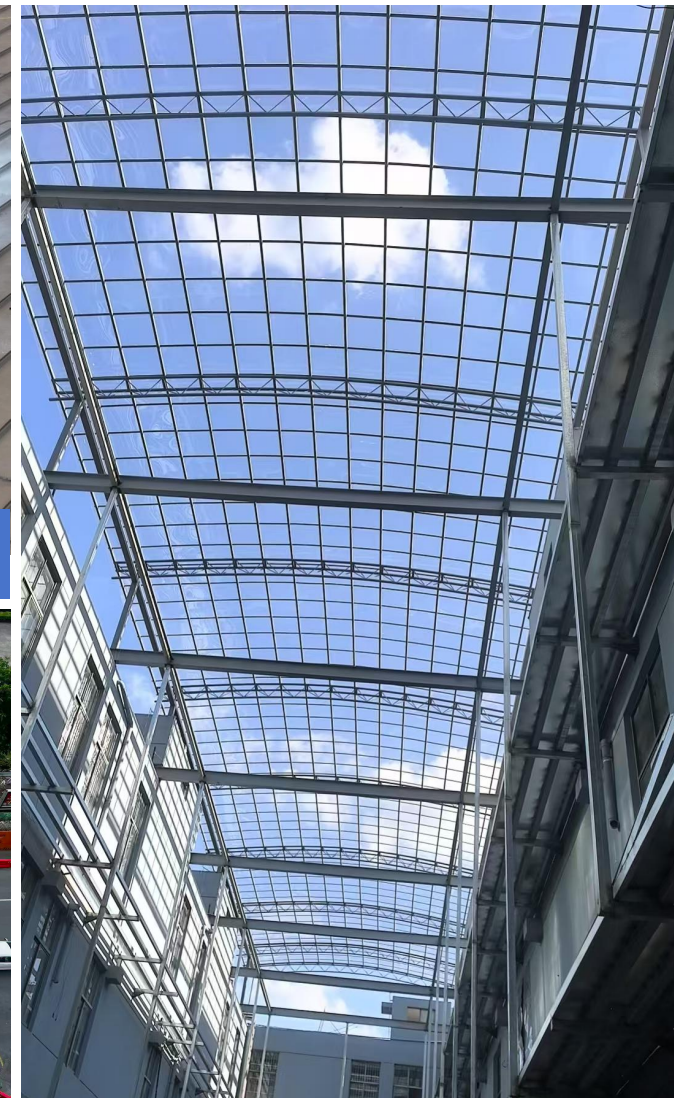
garage passage (ocean blue)



gas station (ocean blue)



pedestrian bridge
(milky white)



warehouse outdoor
(transparent)

Engineering Case



commercial Walkway (Brown)



CarWash canopy+Partition (ocean blue)



Custom Pavilion (Ocean Blue)



Terrace Courtyard (Clear)



park walkway (green)

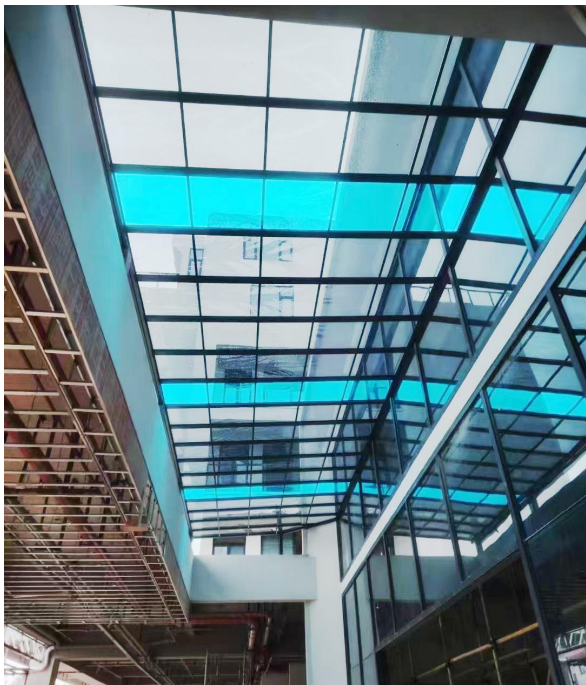


greenhouse (clear)



window canopy (clear)

Engineering Case



office daylighting (blue+grey)



countryard daylighting (clear)



art gallery daylighting (clear)



carport (gray)



pedestrian bridge (gray)

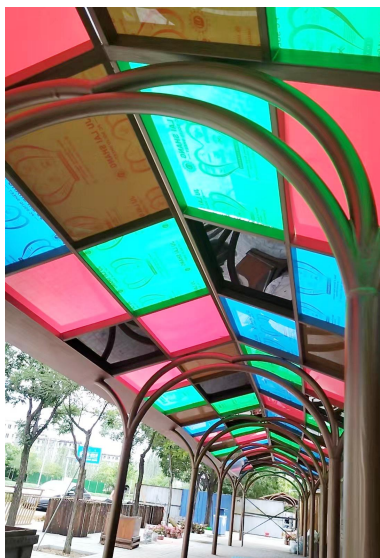


scenic walkway (ocean blue)

Engineering Case



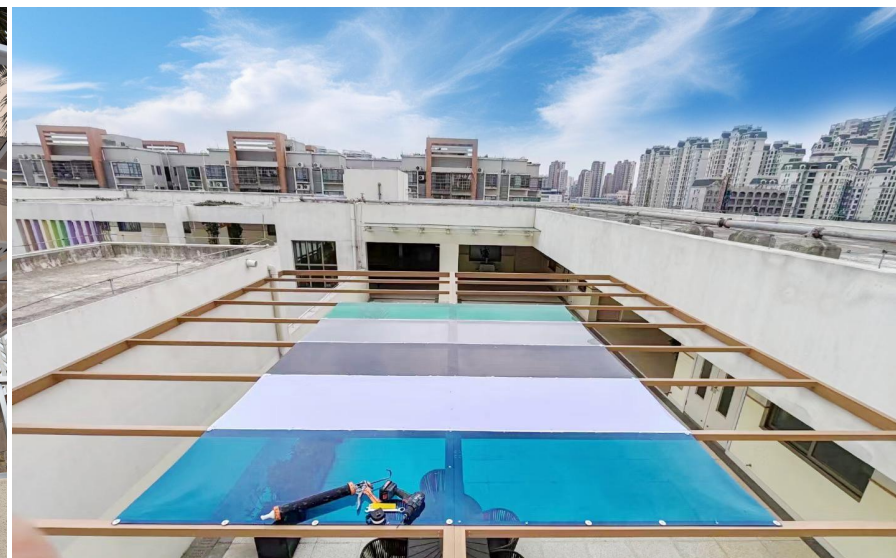
stadium daylighting (clear)



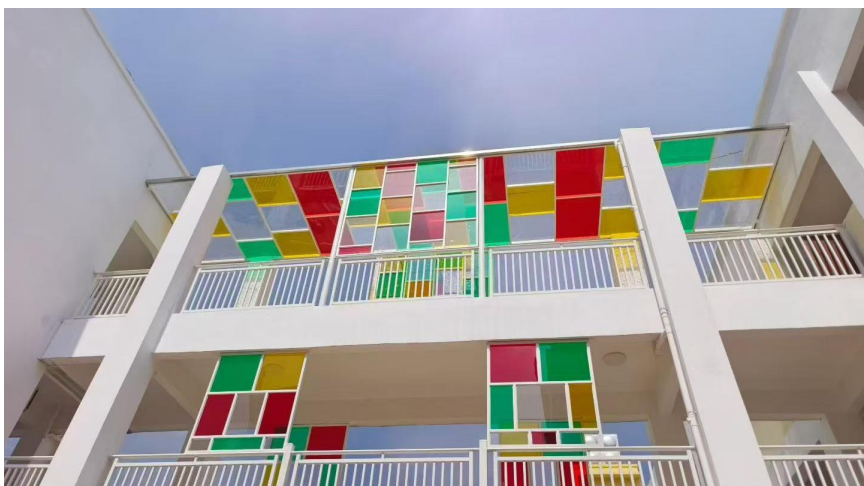
park (colorful)



Villa pavilion (brown)



Terrence daylighting (color)



gallery decor (color)



decor (clear)



courtyard canopy (black)