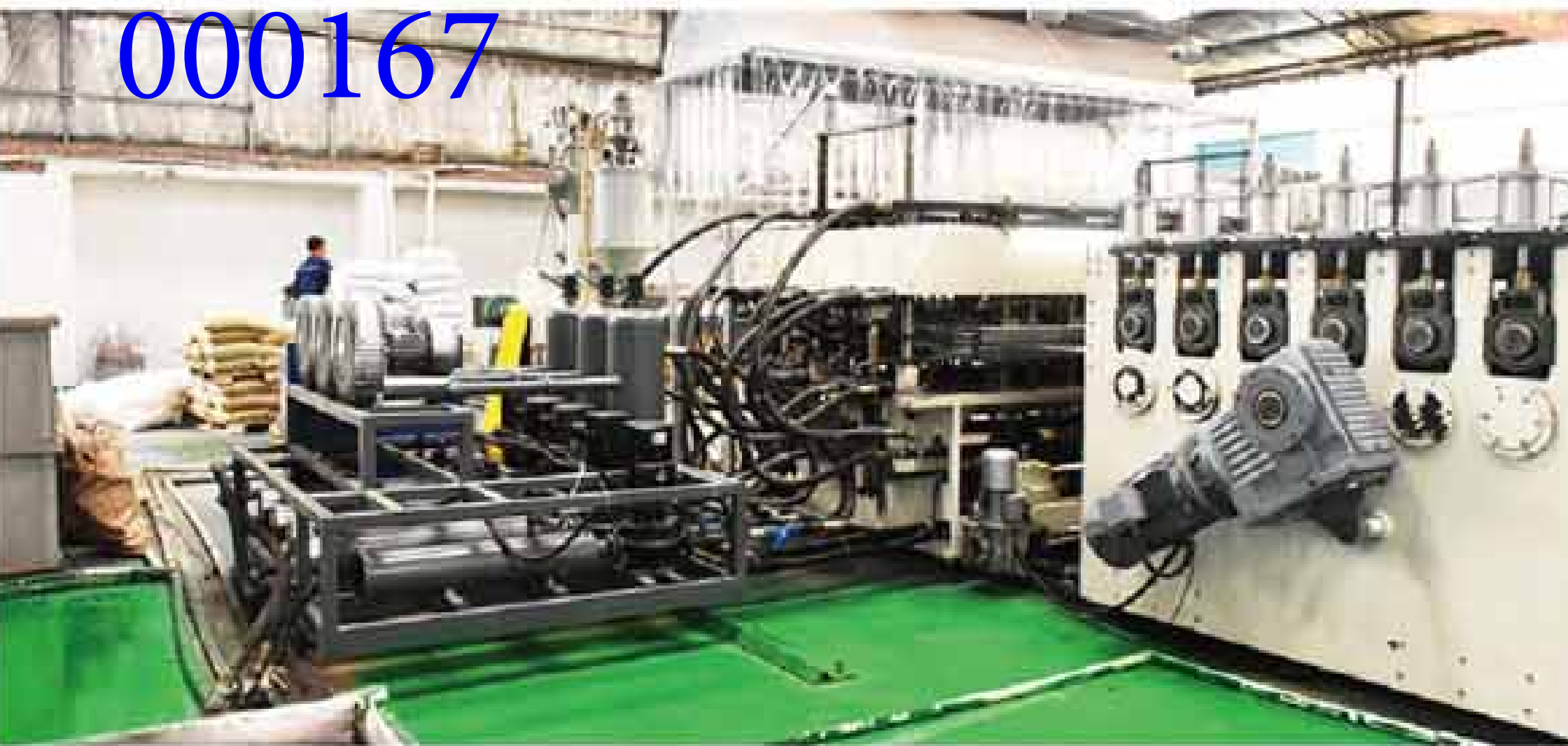


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# POLYCARBONATE PC SHEET

## 阳光板

### 产品简介 Product introduction

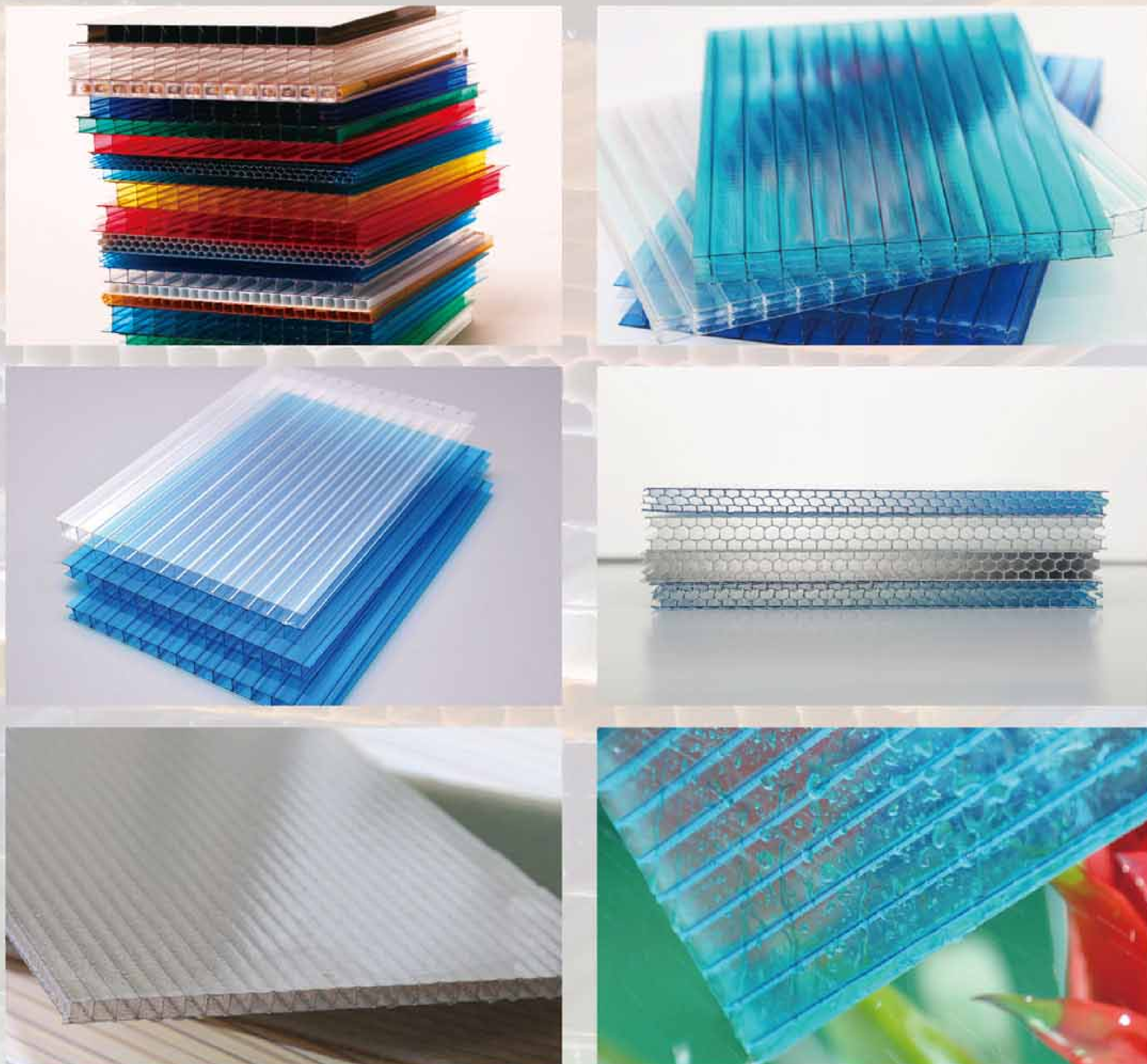
阳光板（又称卡布隆）是一种综合性能极佳的工程塑料板材，具有杰出的物理、机械、电气和热性能，故聚碳酸酯有“透明塑料之王”的美称，它有良好抗冲击、隔热、隔音、采光、防紫外线、阻燃等优点。PC 板材广泛应用于公用、民用建筑的采光和挡雨棚、通道顶棚、商场顶盖、植物温室，是目前世界上最理想的一种光棚材料，是现代建筑装饰界广泛推崇和赞誉的新一代产品。

Hollow poly carbonate sheet (also known as cabrone) is a kind of engineering plastic panel with excellent comprehensive performance, which has outstanding physical, mechanical, electrical and thermal properties. Therefore, polycarbonate has the reputation of "king of transparent plastic", which has the advantages of good impact resistance, heat insulation, sound insulation, lighting, UV protection, flame retardant, etc. PC board is widely used in daylighting and canopy, passage ceiling, shopping mall roof and plant greenhouse of public and civil buildings. It is the most ideal light shed material in the world at present and the latest generation product widely praised and praised by modern architectural decoration industry.

### 产品种类 Product category

双层阳光板、三层矩形阳光板板、四层矩形阳光板板、蜂窝结构阳光板、晶亮阳光板、农业温室防雾滴阳光板等。

Hollow polycarbonate sheet: double-layers PC sheet, three-layers PC sheet, four-layers PC sheet, honeycomb PC sheet, crystal PC sheet, anti-fog sheet for agricultural greenhouse, etc.



# DOUBLE WALL PC SHEET

## 双层PC阳光板

### 产品简介 Product Profile

欣海双层阳光板普遍用于各种建筑采光屋顶和室内装饰装修；火车站和航空港等待厅及过街天桥、通道顶棚；汽车站、轮渡码头等公共服务设施的顶盖和装潢园林小品；天窗、地窖、拱形屋顶及商场顶棚；旅游、游艺场合奇怪装潢及休息廊厅；透光隔热及隔音屏障路牌广告、灯箱广告及展现展览部署；高级内装修板。

Sinhai twin wall polycarbonate hollow sheet is mainly used for all kinds of lighting building and in door decoration, waiting room of railway station and airport, roof of corridor, roof and decoration of bus station, ferry terminal and other public service facilities, garden sketch, skylight, cellar, arch roof and roofing of the mall, travel and entertainment place's decoration and waiting room, heat & sound insulation wall, transparency billboard advertising, light box advertising and senior interior decoration sheet etc.

### 产品用途 Product use

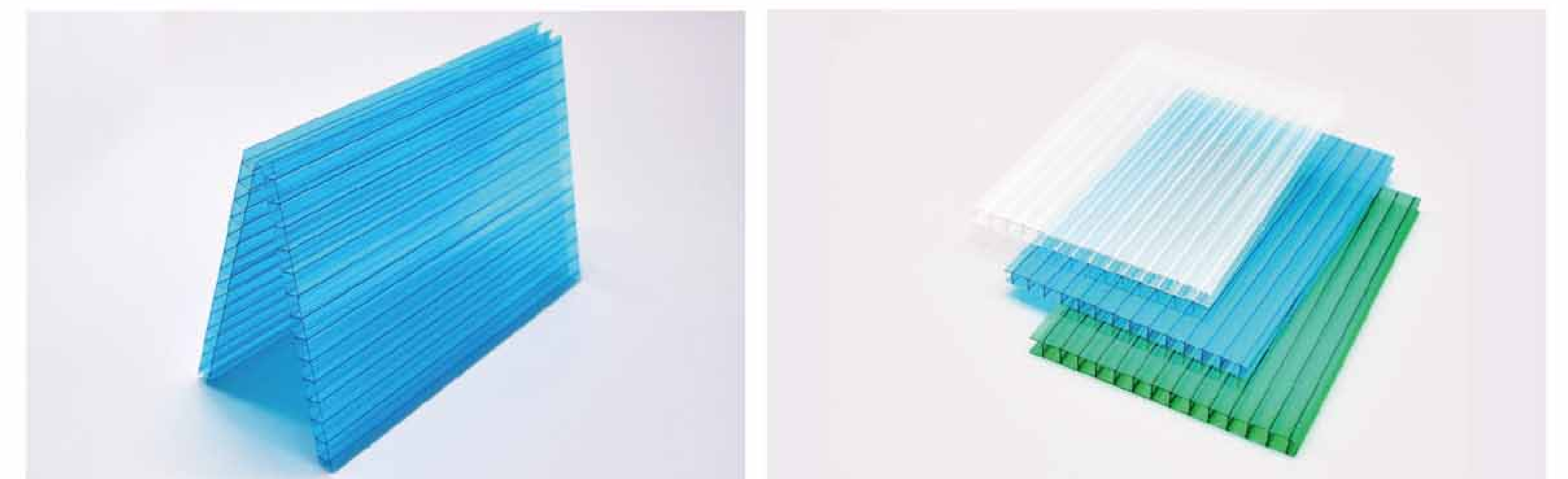
- ★ 园林、游艺场所奇异装饰及休闲场所的廊亭；  
Peculiar decoration of garden and entertainment place, corridor roof of leisure facility.
- ★ 商业建筑的内外装饰、现代城市楼房的幕墙；  
Interior and exterior decoration of commercial buildings, curtain wall of modern building.
- ★ 农业温室及养殖大棚；  
Agricultural greenhouse and breeding greenhouse.
- ★ 所有单位或小区内自行车棚、阳台遮阳雨棚及屋顶休息亭棚；  
Bike shelter, carport shelter, balcony awning and roof of skylight.
- ★ 办公楼、百货大楼、宾馆、别墅、学校、医院、体育场馆、娱乐中心及公用设施的采光顶棚等。  
Lighting roof of office building, department store, school building, hospital, stadium and entertainment.

### 规格参数 specification value

阳光板见的比较多的是 4mm, 6mm, 8mm, 10mm；这些厚度的板子通常为双层结构。

Hollow PC sheet hot-selling thickness is: 4mm; 6mm; 8mm; 10mm. The sheet are usually of double structure.

	厚度	长度	宽度	重量	半径	透光率% (±3%)					
	thickness	length	Maxwidth	weight	diameter	Light transparency (±3%)					
	mm	mm	mm	kg	mm	透明	茶色	乳白	宝兰	湖蓝色	草绿色
	mm	mm	mm	kg	mm	clear	bronze	opal	blue	Lake-blue	green
双层 Twin wall	4	6000	2100	0.9	700	80	58	57	45	55	45
	6	6000	2100	1.3	1050	79	50	56	36	50	42
	8	6000	2100	1.5	1400	78	44	52	30	47	40
	10	6000	2100	1.7	1750	78	40	44	28	42	35
	12	6000	2100	2.2	2100	75	38	42	25	40	34



## FOUR -WALL PC SHEET 四层PC阳光板

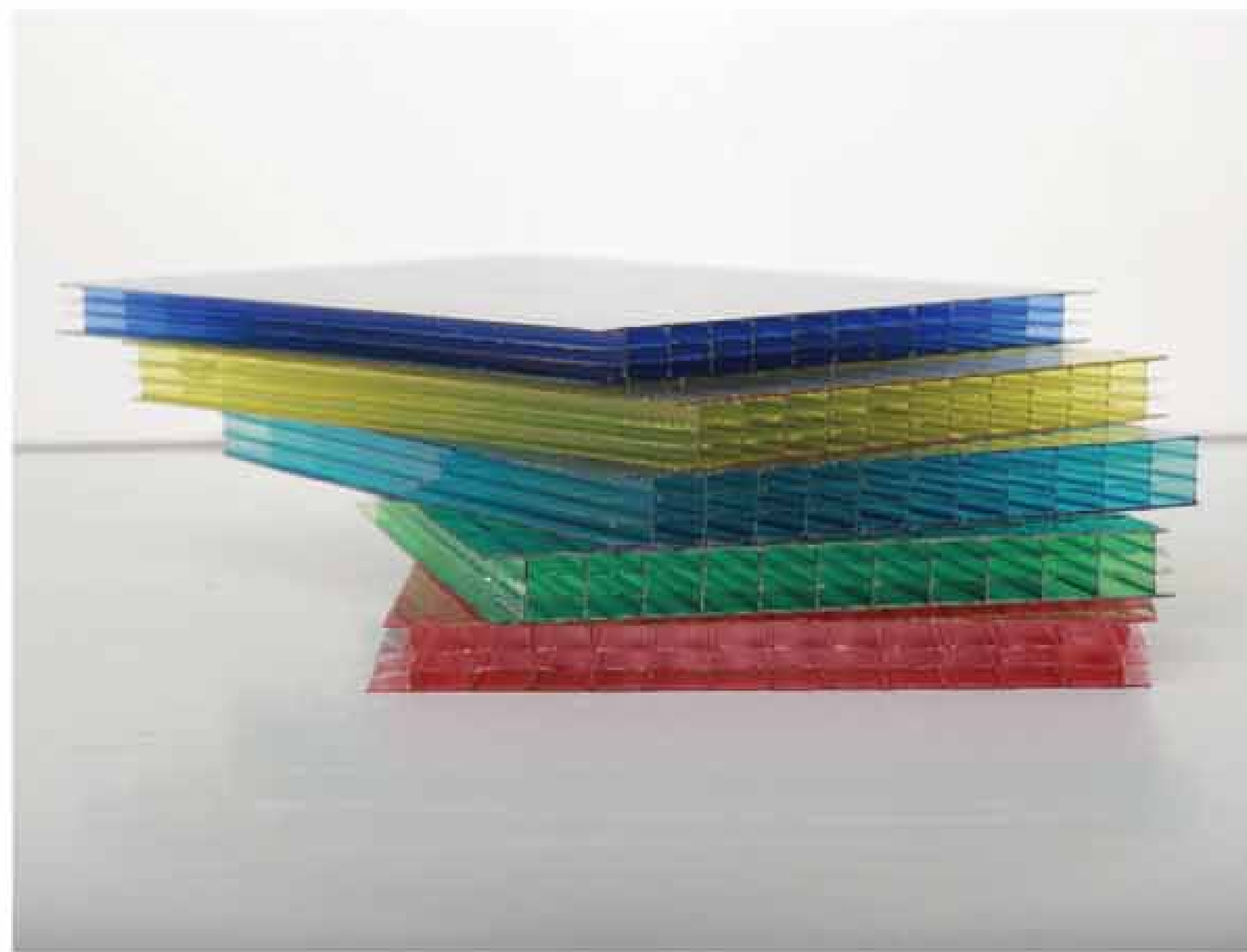
### 欣海牌四层矩形阳光板 Xinhai brand four -wall sheet

保温性能极好,适用于对保温性能要求很高的建筑设计中使用。另外四层阳光板的结构稳定性也远远高于双层和三层阳光板,温室大棚如果采用四层阳光板能使用15年左右。

It has excellent heat preservation, suitable for architectural design of high request for heat preservation. In addition, four wall sheet structure is stronger than twin wall and triple wall, if it is used for greenhouse can be extend to about 15 years.

### 欣海四层阳光板材料性能 Four wall sheet properties

- 节能: 传热系数(K值)低、隔热性好,节能量是相同厚度玻璃的1.5-1.7倍。  
Save energy: low heat conductivity, high heat insulation, save energy 1.5-1.7 times at the same thickness glass.
- 冷弯: 可冷弯,安全弯曲半径为其板厚的175倍以上(耐力板)。  
Cold bending: can cold bending, the bending radius is above 175 times of sheet thickness (solid sheet).
- 耐候: 人工气候老化试验4000小时,黄变度为2,透光率降低值仅0.6%。  
Weather resistance: Artificial climate aging test, yellow index is 2, the transparency only reduce 0.6%.
- 耐燃: 经国家防火建筑材料质量监督检验中心测试,本公司所生成的阳光板和耐力板燃烧性能达到难燃B1级。  
Flame resistance: Through testing by the National center for quality Supervision & Testing of Fire Building materials, the material is rated as Class 1 according to QB8624-1997 standard.
- 防凝: 一面可作抗凝处理,防止冷凝水滴落。  
Avoid clot: Can do condensing processing, prevent the condensed water drop down.
- 隔音: 聚碳酸酯板材具有良好的隔音性能,能有效地降低噪音。  
Sound insulation: PC sheet have good sound insulation and to reduce noise effectively.
- 质轻: 质量是相同厚度玻璃的1/2。  
Light weight: The weight of PC hollow sheet is only about half of same thickness glass.
- 使用温度范围宽: 在-40到120范围内物理性能稳定。  
Use temperature range: -40<O + 120<O is good for the sheet.
- 透光: 透光率高达88%。  
Transparency: can be up to 88%.
- UV层: 板面加有UV防紫外线涂层,延长板材寿命。  
UV protection: PC sheet is co-extruded with a high-density ultra violet ray that also keeps the PC sheet from discoloring, and extend the life span of sheet.
- 抗风: 抗风性能可达到国标GBH7106-86第1级。  
Wind resistance: wind resistance can up to international standard first class GB/T7106-86.



## HONEYCOMB PC SHEET 蜂窝板

### 产品简介 Product Profile

蜂窝型阳光板主要由PC料制作,当冲击力以21m/s下坠的冰雹冲击后,毫无裂痕。具有质轻、透光、耐冲击、热隔离、阻燃、耐用等特点。

Honeycomb hollow sheet mainly produced by PC materials, When the impact of falling hail is at the speed of 21 m/s, no any cracks appear. The sheet has the features of light weight, transmitting, impact resistance, heat isolation, flame retardant, endurance, etc.

### 产品最大特性 The Best features of the product

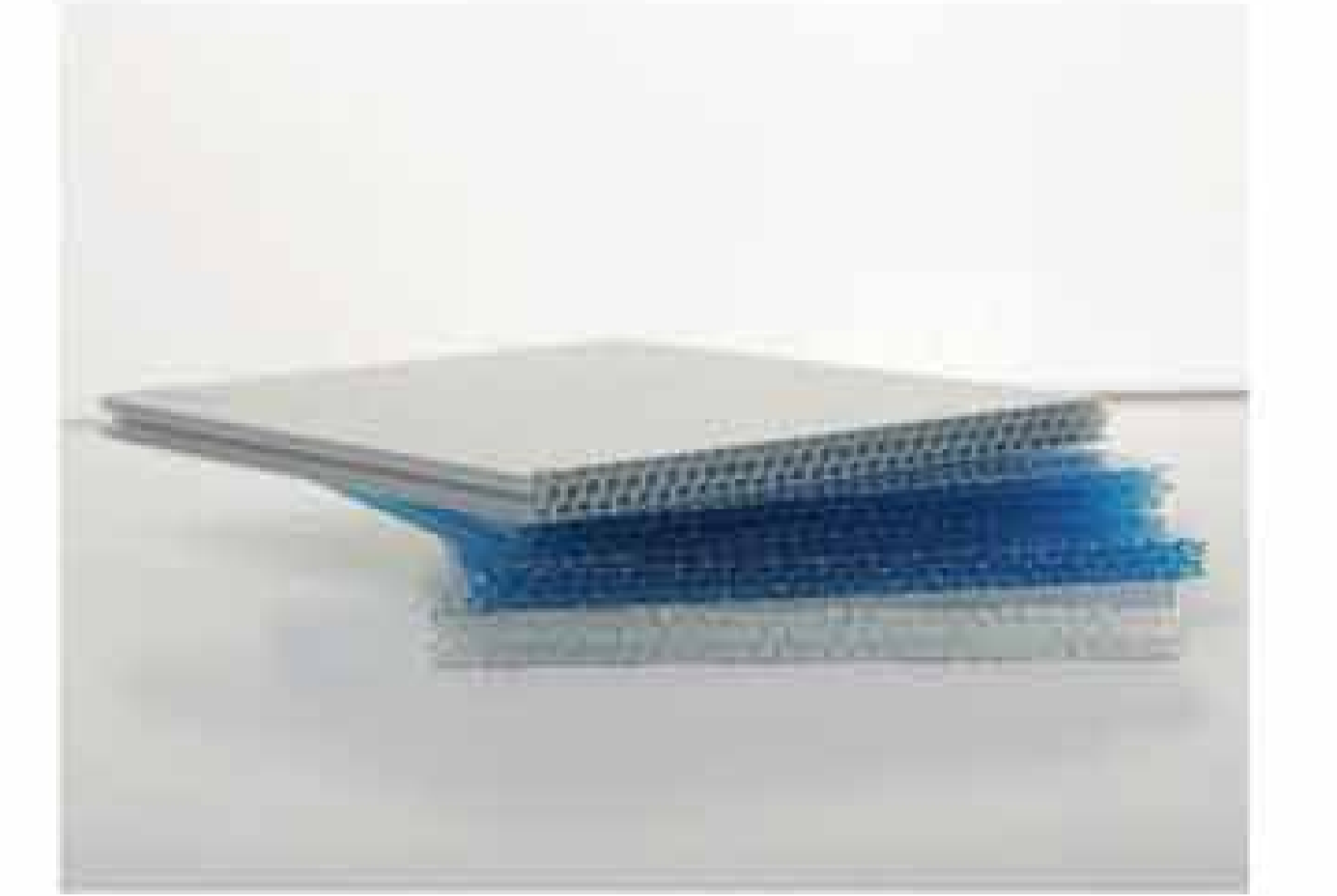
UV共挤耐黄变、隔音、保温、安全、透明。  
UV co-extrusion process for resistance of yellowing, sound insulation, heat preservation, safe and transparent.

### 主要应用 Main application

采光屋顶商业大厦,住宅,厂房,仓库,以及室内体育馆,广告板,停车棚,游泳池,温室,室内隔断,装饰展示。  
Skylight roof for commercial building, residential building, factory building, warehouse, indoor stadium, advertising board, carport shed, partitions for swimming pool, greenhouse and indoor chamber, decoration and exhibition.

### 产品规格 Product Specification

标准宽度 Standard Width	8mm-12mm
标准厚度 Standard Thickness	2100mm
标准长度 Standard Length	6000mm
颜色 Color	透明 Transparent, 草绿 grass green, 宝蓝 acid blue, 蓝色 blue, 茶色 brown, 米白色 cream white.



## CRYSTAL PC SHEET 晶亮板

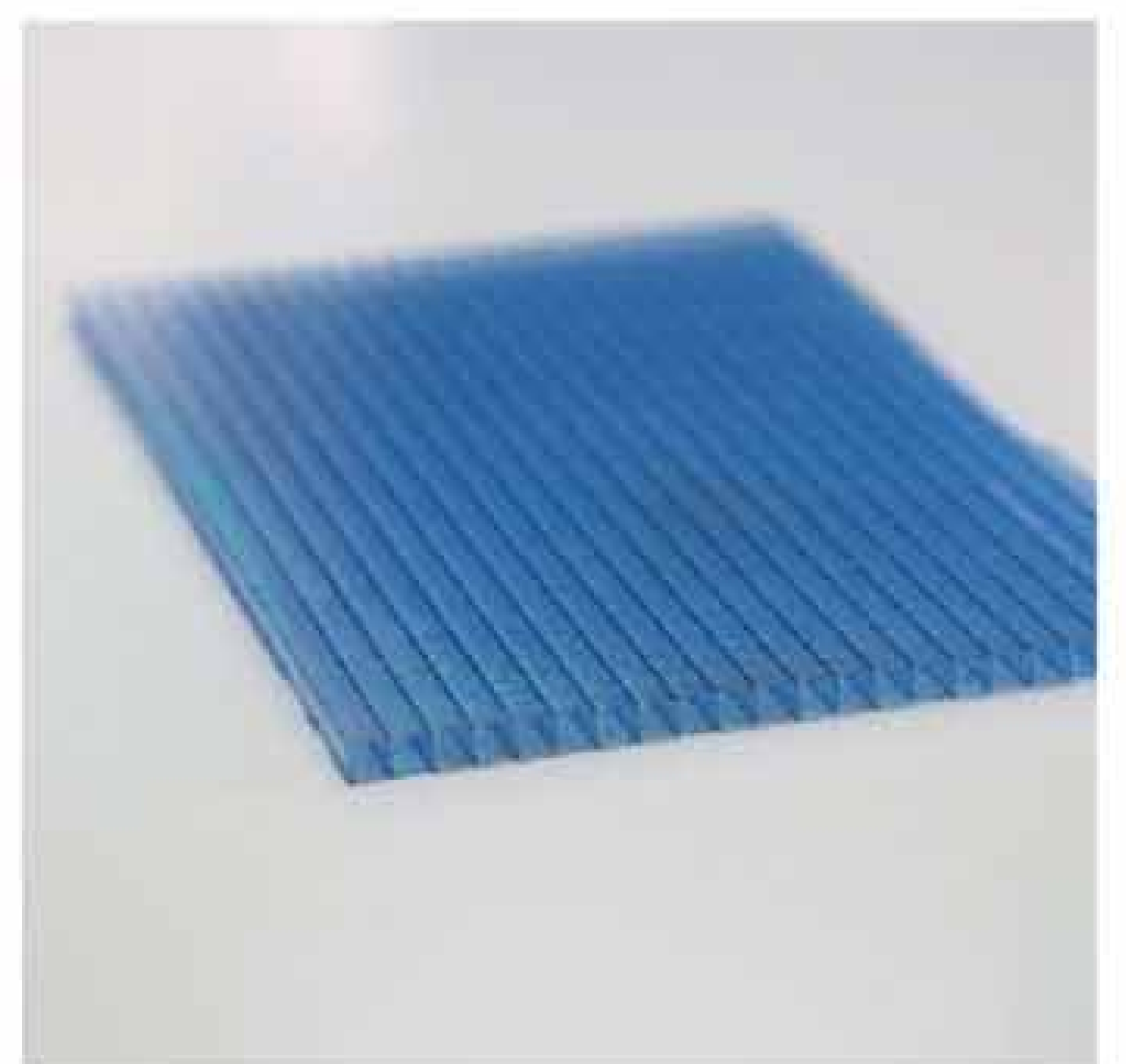
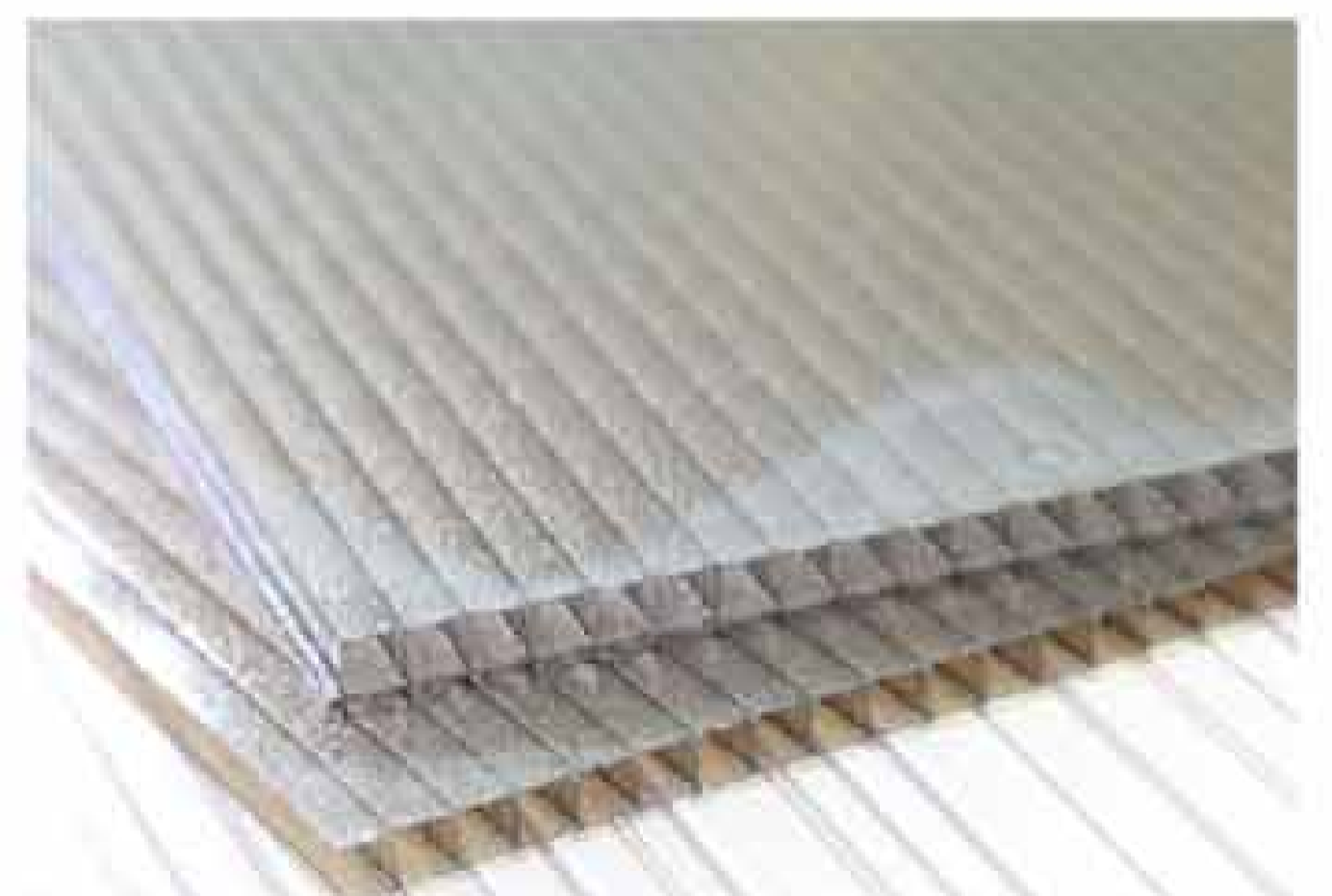
### 产品简介 Product Profile

晶亮中空阳光板:“晶莹闪亮”的效果,光线更加柔和,不会形成光带,减少光污染,具有更加的美学视觉效果及耐磨性能。主要应用于建筑采光、室内隔断、屏风、室内装潢、家具、浴室设计、温室应用、泳池顶棚。

Crystal PC hollow sheet makes the light more soft, no slit of light and reduces light pollution. It not only has better aesthetic visual effect, but also better wear-resisting properties. It is widely applied in architectural lighting, in doors partition, indoors decoration, furniture, bathroom design and greenhouse etc.

### 产品规格 Product Specification

厚度 (mm) Thickness	结构 Structure	重量 Weight(g/m <sup>2</sup> )	最小弯曲 mini bend		
			radius (mm)	尺寸 Size (mm)	颜色 Color
4.5	2RS	1000	787.5		
5	2RS	1100	875		
6	2RS	1300	1050	长度 Length: 5800	蓝色 Blue 绿色 Green 茶色 Bronze
8	2RS	1500	1400		
10	2RS	1700	1850	宽度 Width: 2100	



# GREENHOUSE PC SHEET

## 温室阳光板

### 产品简介 Product Profile

欣海防雾滴阳光板主要用于温室大棚、温室餐厅、花卉市场、游泳馆等场所的采光顶棚，对产品质量、技术要求比普通阳光板高。Sinhai anti-fog hollow sheet is mainly used for roof sheet for greenhouse, restaurant, flower houses, swimming pool. It requires higher than ordinary hollow sheet.

### 材料性能 Material properties

#### 第一：防雾滴技术 Anti-fog technology

室内外温差会导致水蒸气凝结在温室内的墙和顶子上，形成小雾滴，减少阳光透射率，由于进一步冷凝，它们会滴落下来伤害植物。欣海防雾滴阳光板除了具有普通阳光板一切优良的性能之外，还可以防雾滴，使空气中的水分在板材上均匀凝结成小水珠分布在板材上，沿着斜面（板材筋肋的方向）滑至边缘，而并非直接滴落，从而达到防雾滴效果，所以被广泛应用于温室大棚与生态餐厅工程。

The temperature differences between indoors and outdoors will lead to the fog-drops which will reduce the light transmission. Under further condensation, they will drop and hurt the plants. With professional technology, Xinhai anti-fog polycarbonate sheet can better prevent fog drops, so that the moisture in the air condensation into small beads that distributed on the plate evenly, then along the inclined surface (the direction of the board ribs) to the edge of the slide. Therefore, it is widely used in greenhouse and ecological restaurant.

#### 第二：UV 抗紫外线技术 UV coating technology

到达地球表面的阳光波长范围是 295-2140mm，依次为中紫外线、近紫外线、可见光、近红外线、中红外线。欣海防雾滴 PC 阳光板采用 UV-PC 三层共挤方法生产，表面均匀的覆有高浓度防紫外线镀层，可保证板材使用十年不会出现老化，黄变指数在最初十年内对比于原始数据小于10，透光率对比于原始数据小于6%。

The waves length range to reach earth is 295 ~ 2140mm in the order of middle exterior line, near ultraviolet ray, visible light, near infrared ray, middle infrared ray. Xinhai anti-fog PC sheet is adopted UV-PC three layers co-extrusion technology. It is evenly coated high density UV coating, which can protect sheets from aging within ten years. The yellowing index is less than 10 in the first decade, and the light transmittance was less than 6 compared with the original data.



# CORRUGATED PC SHEET

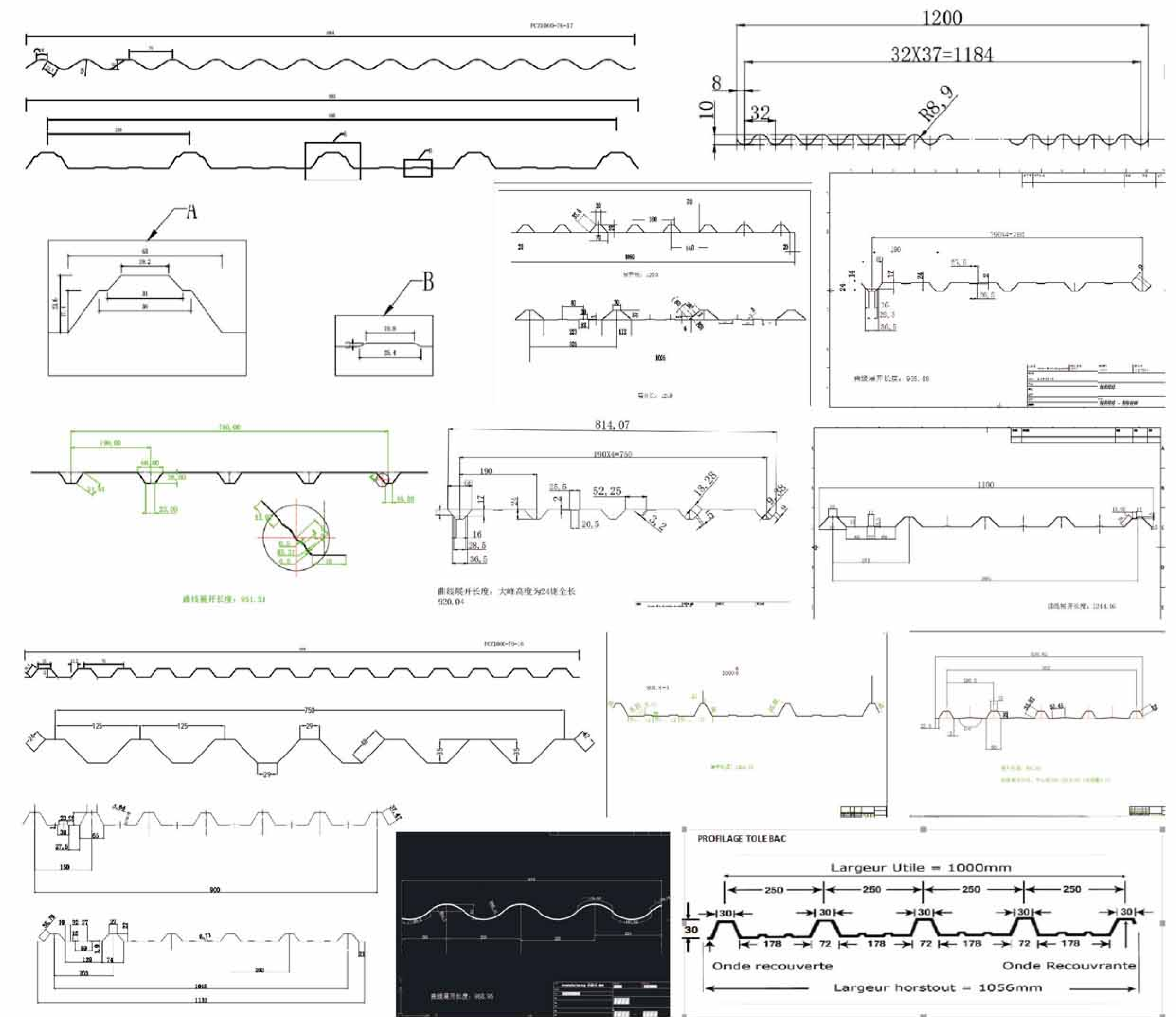
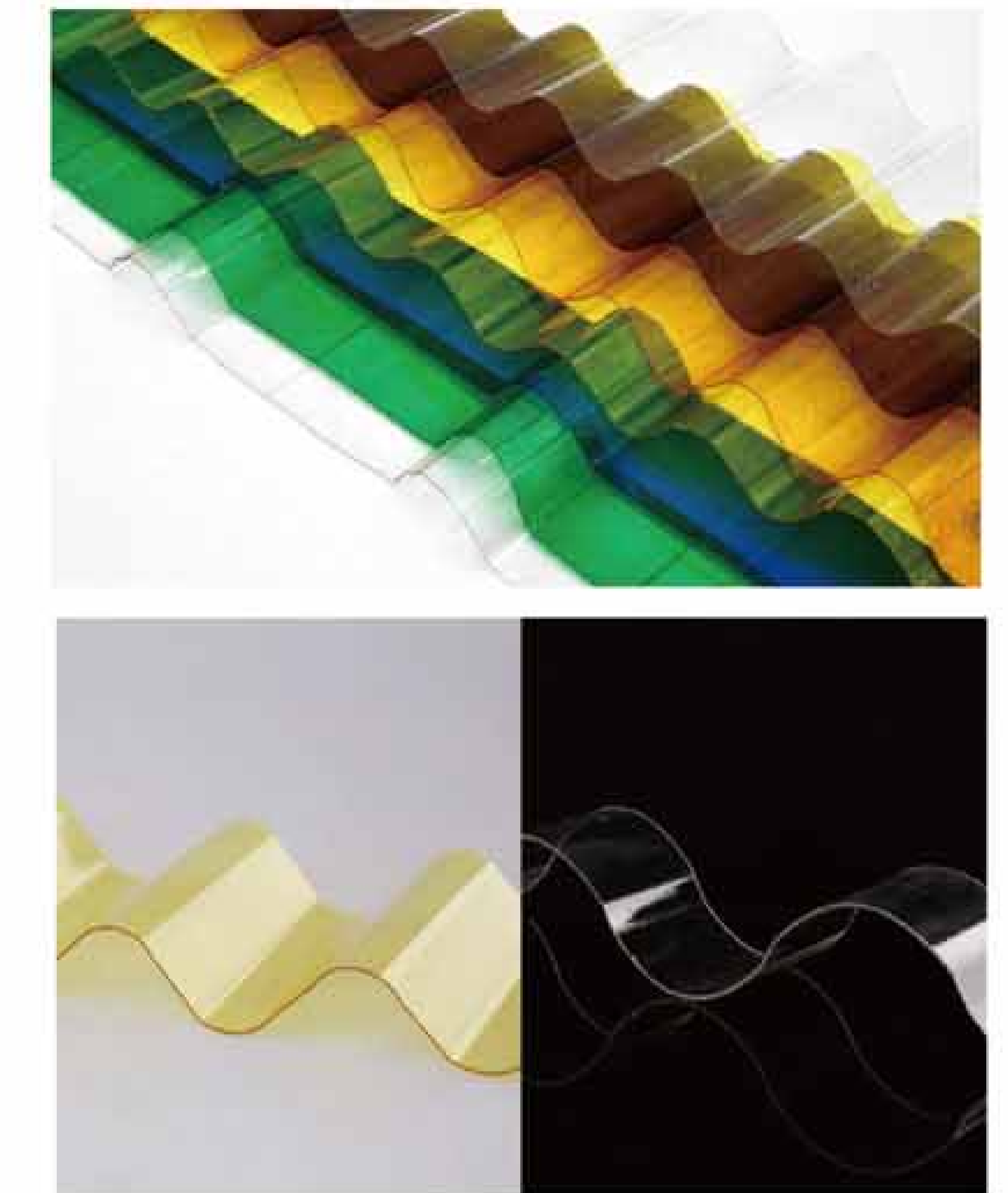
## 波浪瓦

### 产品简介 Product Profile

厚度 Thickness: 0.8mm, 1.0mm, 1.3mm, 1.5mm, 2.0mm, 2.5mm, 3.0mm  
 宽度 Width: 840, 1000, 1050mm etc  
 长度 Length: flexible  
 颜色 Color: clear 透明, white 白色, blue 蓝色, green 绿色, bronze 茶色  
 宽度和模具 Width&profiles: 840, 1000, 1050mm round wave 波形, trapezoidal wave 梯形

### 用途 Application scope

工厂、仓库、停车场、农业、贸易、商场、路障、阳台、隔热板等。  
 Factories, warehouses, car parks, agricultural and trading markets, road fences, balcony and heat-insulation sheds. Etc.



# SOLID PC SHEET

## 耐力板

### 产品简介 Product Profile

耐力板又称 PC 板, 聚碳酸酯实心板、防弹玻璃、卡布隆板, 实心板, 聚碳酸酯板, 航空透视板, 是以高性能的工程塑料聚碳酸酯或 聚碳酸酯加工而成, 特性: 耐撞击、打不破; 强度超过强化玻璃、亚克力板数百倍, 坚韧安全、防盗、防弹效果最佳。可圆拱、可弯曲: 加工性佳、可塑性强、能依工地现场实际需要, 弯曲成拱形、半圆形等式样。材质轻、易搬运: 重量仅及玻璃一半, 搬运安装省时省力, 施工管理便捷容易。耐候性、采光优: 可长期抗紫外线照射, 采光效果特优, 能节省大量节源开销。

Solid PC sheet also called polycarbonate solid sheet, bullet proof glass, carbon sheet, polycarbonate sheet, aerial plate. It is made of high performance engineering plastic polycarbonate or polycarbonate solid sheet has transparent texture like glass, but only half the weight of glass and unbroken in impact resistance, which can be showed cold bending, equipment and heat synthesis processing accordingly, and used widely in all kinds of architecture, engineering and decoration.

### 产品用途 Product application

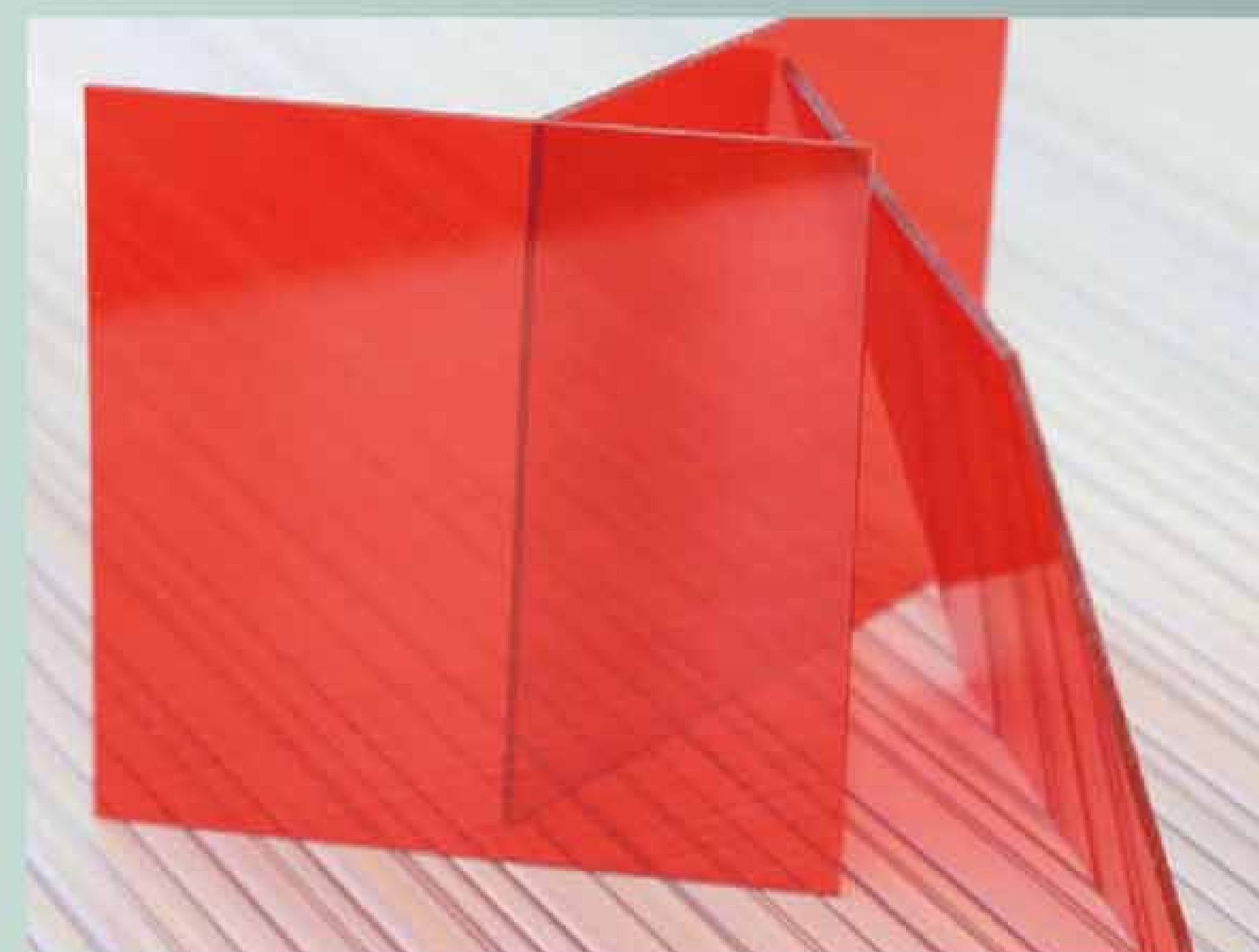
适用于航空透明集装箱、摩托车前风挡、飞机、火车、轮船、汽车、汽艇、潜艇及玻璃军警盾牌。  
适用于电话亭、广告路牌、灯箱广告、展示展览的布罩; 适用于仪器、仪表、高低压开关柜面板, LED 展板及军事工业等; 风等高档室内装饰材料。  
适用于高速公路及城市高架路隔音屏障。  
适用于办公楼、百货大楼、宾馆、别墅、学校、医院、体育场馆、娱乐中心及公用设施的采光顶棚等。  
It is suitable for air transparent container, air, railway, ship, cars, steamboat, police shield.  
Sound insulation wall for highways, high-speed railway and MRTS.  
In doors swimming pools, sun bath pools, greenhouse roofs and sidings.  
Subway exits, parking lots, garage tents, bus-stops, large stadium and rain-tents, hallway tents.  
Safety roof light for airports and plants.  
Sign boards for advertisement.  
Roofing light for office buildings, department stores, hotels, villas, stadium, schools, amusement, center, hospital etc.

### 规格尺寸 specification

1-17mm 厚板材标准长度 30 米打卷, 打卷板材厚度不超过 3.5mm, 可定做长度, 宽度有 1.22m、1.56m、1.82m、2.1m, 标准颜色有透明、乳白、湖蓝、草绿、宝蓝、茶色。  
1-17mm thickness standard roll packing length is 30m, roll packing thickness no more than 3.5mm, the length can be customized as your request. Standard width: 1.22m 1.56m 1.82m 2.1m Standard color: clear, opal, blue, green, lake-blue, bronze.

### 产品种类 Product category

平板耐力板、颗粒耐力板、磨砂耐力板、防爆耐力板、PC 瓦等。  
Solid polycarbonate sheet: flat solid PC sheet, embossed PC sheet, frosted PC sheet, bullet proof PC sheet, corrugated PC sheet, etc.



# FROSTED PC SHEET

## 磨砂耐力板

### 应用领域 Application area

医院病床隔断 Hospital bed partition  
公共场所顶棚及装饰 Subway entrance, station, parking lot, mall canopy  
建筑顶棚及橱窗 Skylight, Jeweller's showcase,  
浴室门窗墙面 Bathroom window/wall/door  
办公室隔间 Office compartment  
室内室外装饰 in door partition, walkway, fence, balcony door, shower room



# BULLETPROOF SHEET

## 防弹板

厚度 Thickness	10mm-17mm
最大宽度 Max width	2100mm
长度 Length	5800mm 6000mm or customized 5800mm 6000mm 或定制
颜色 Color	透明或定制 transparent or customized
材质 Material	沙比特、马克隆、拜耳、三菱 Sabie Lexan, Makrolon Bayer, Mitsubishi etc
紫外线防护 UV protection	单面 one side
应用 Application	警察的盾牌、银行窗口、商店橱窗、超市橱窗、购物中心 police shield, bank window, shop window, super market window, shopping counter, etc.
Strengthen Polycarbonate Solid Sheet (Bullet Proof)	



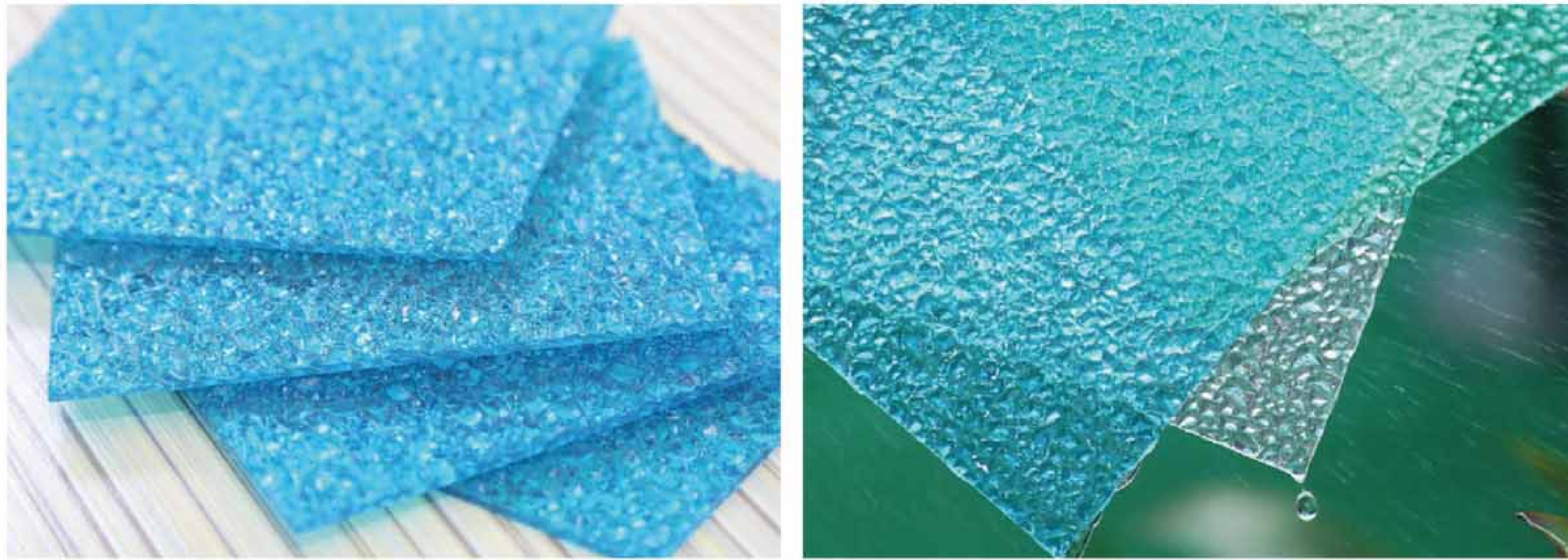
# ANTI-SCVATH HARD SOLID PC SHEET

## 防划痕板

厚度 Thickness	2mm-8mm
最大宽度 Max width	2100mm
长度 Length	5800mm 6000mm or customized 5800mm 6000mm 或定制
颜色 Color	透明 Transparent, 绿色 green, 蓝色 blue, 乳白 opal, 茶色 brown or customized 定制
材质 Material	沙比特、马克隆、拜耳、三菱 Sabie Lexan, Makrolon Bayer, Mitsubishi etc
防划痕 Anti-scratch	单双面 one side or two sides
应用 Application	商店窗口、车窗、游泳池防护、地面防护等 shop window, car window, swimming pool fence, floor fence etc.

## EMBOSSED PC SHEET 颗粒耐力板

PC颗粒板也是属于pc耐力板中的一种,主要是由于加工工艺的不同,生产模具的不同,方能做出非常漂亮,表面布满大小颗粒状的pc板材。产品特点为表面呈现大大小小颗粒,在阳光或者灯光的照射下,可以呈现出非常漂亮的板材效果。  
Embossed PC sheet is also a kind of PC solid sheet, mainly due to different processing processes, production of different molds, can make very beautiful, surface covered with size granular PC plate. The product features are with large and small particles on the surface. Under the sunlight or light, it can present a very beautiful plate effect.



## RELATED PRODUCT 拓展产品

采光罩以聚碳酸酯(PC)耐力板或PMMA料或FRP玻璃纤维为基材,经高温吸塑成型。重量轻、强度高、抗撞击、打不碎、防弹、防紫外线、采光性能好、不变色。PC加UV可使板材耐老化达20年之久,耐低温达-45度。  
Dome skylight is adopted PC solid sheet and PMMA material or FRP material. It is shaped by high temperature. It is light weight, high strength, high impact strength, unbreakable, anti-bullet, anti-violet, high light transmission and anti-yellowing. PC sheet with UV coated can last 20 years anti-aging, and low temperature resistance.



采光罩  
PC dome sky light



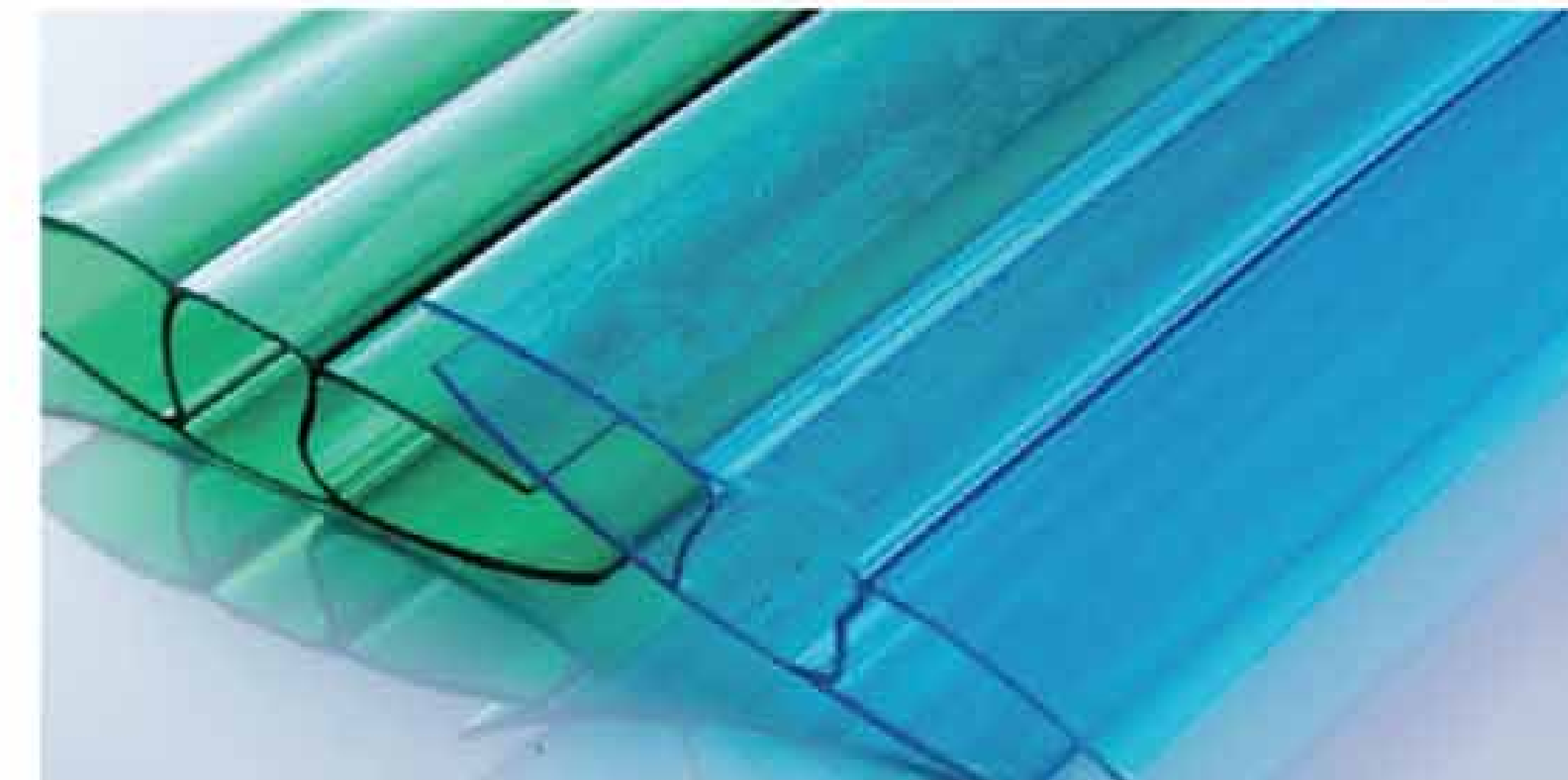
防爆盾牌  
anti-riot for police



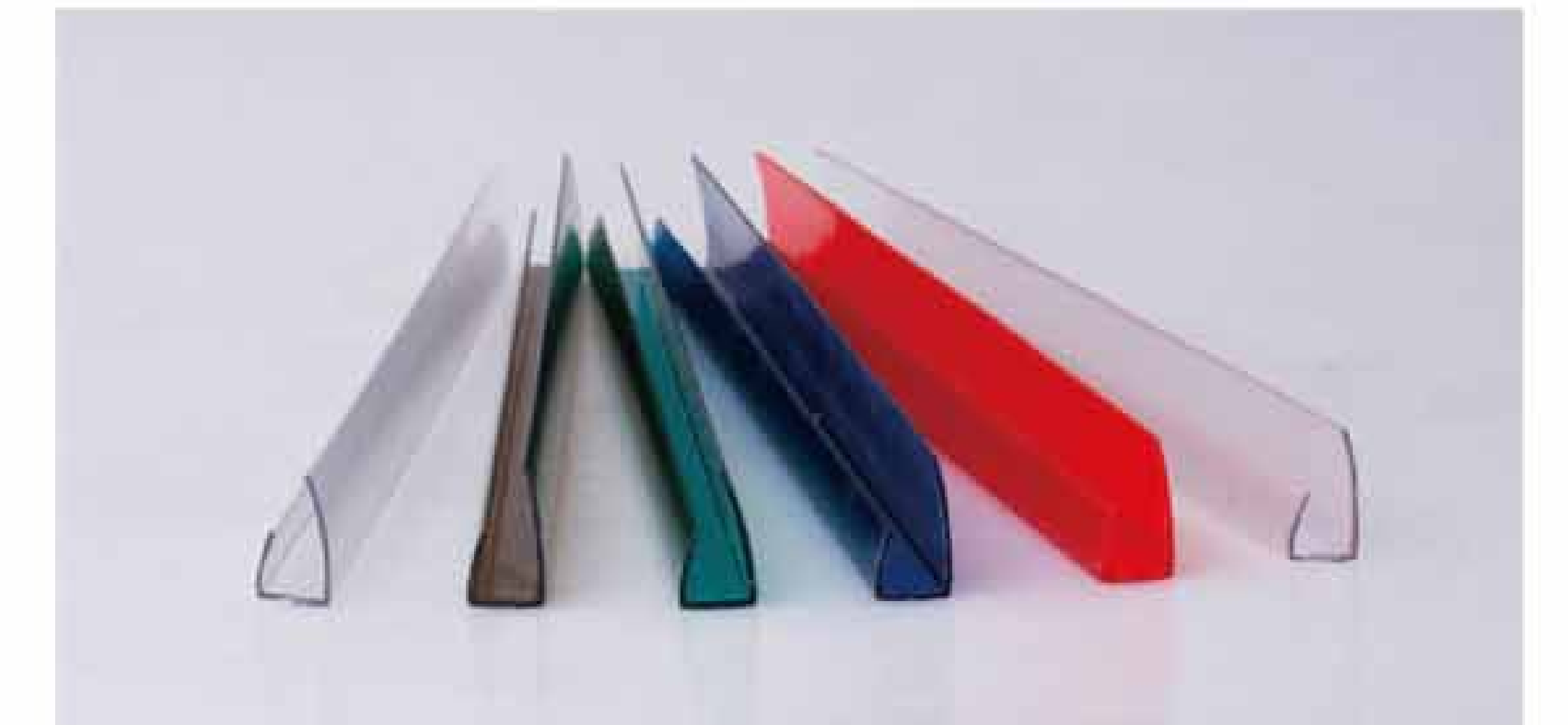
头盔面罩  
Helmet mask

## PC PARTS 配件

欣海 PC 板材专用 PC/ 铝配件 (压条 / 收边) 主要用于 PC 板材的安装紧固, 解决施工安装后的漏水问题, 可以在架体设计不适于阳光板板宽的情况下连接两张阳光板, 产品美观大方, 可以定做长度和颜色。  
Sinhai PC sheet aluminum / PC accessories (sealing bar and close ends) is widely used for PC sheet installation in case of leakage. It can connect two pieces of sheets, which makes the product looking beautiful. The length and colored can be customized.



PC中接 PC-channel



PC收边 PC-U-profile



PC扣板 PC-buckle



铝收边 Aluminum U profile



铝中接 Aluminum-channel



铝扣板 Aluminum buckle



快丝 Drill tail screw



垫片 Washer

# ENGINEERING CASE

## 工程案例



中华人民共和国万岁  
天安门城楼上  
“中华人民共和国万岁 世界人民大团结万岁”光扩散板  
Beijing Tian'anmen Square  
PC light diffusion board for the slogan: Long Live the People's Republic of China, Long Live the Unity of the people of the world.



保定生态园花卉园  
Baoding EcoPark Flower Garden



家庭装修  
House decoration



姜山湿地公园市内足球场  
Jiangshan Wetland Park Football Field



车库  
Carport



灯箱  
Lightbox of PC board



游泳馆  
Swimming pool



廊坊永清菊花种植园区  
Langfang YongQing Chrysanthemum Garden



京港澳高速  
Barrier for the Beijing-Hong Kong-Macau Expressway



凉亭  
Small Bower



张家口圣代农业基地  
Zhangjiakou Sundae Agricultural Base



阳光房  
Sun Room



磨砂板浴室  
Frosted PC board Bath Room



遮雨挡  
Awning