

**AoCi® Double Sided UV Coated
Polycarbonate Sheet**



Double-sided UV-coated PC Hollow Sheet

I . Definition:

Double-sided UV-coated PC Hollow Sheets are polycarbonate hollow sheet with a co-extruded UV-resistant protective layer applied to both sides.

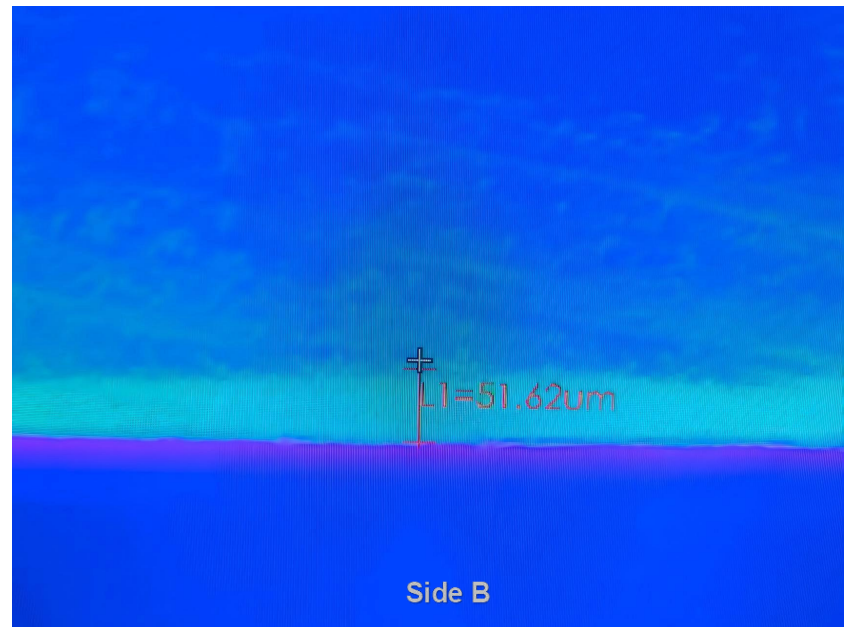
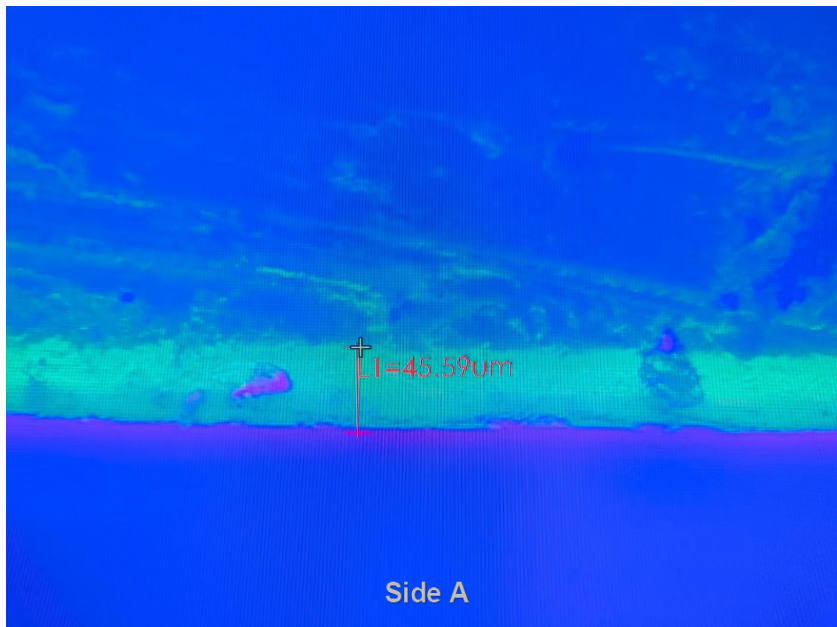
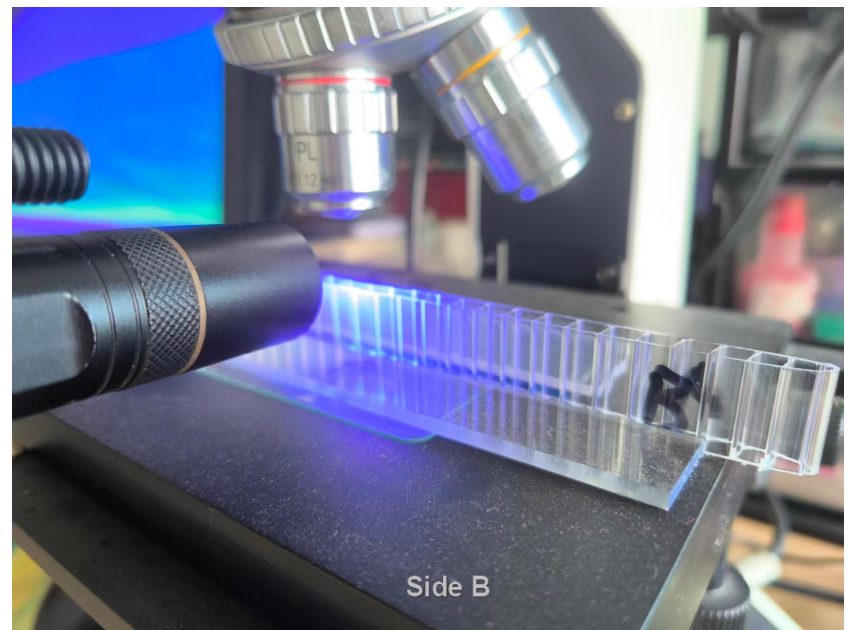
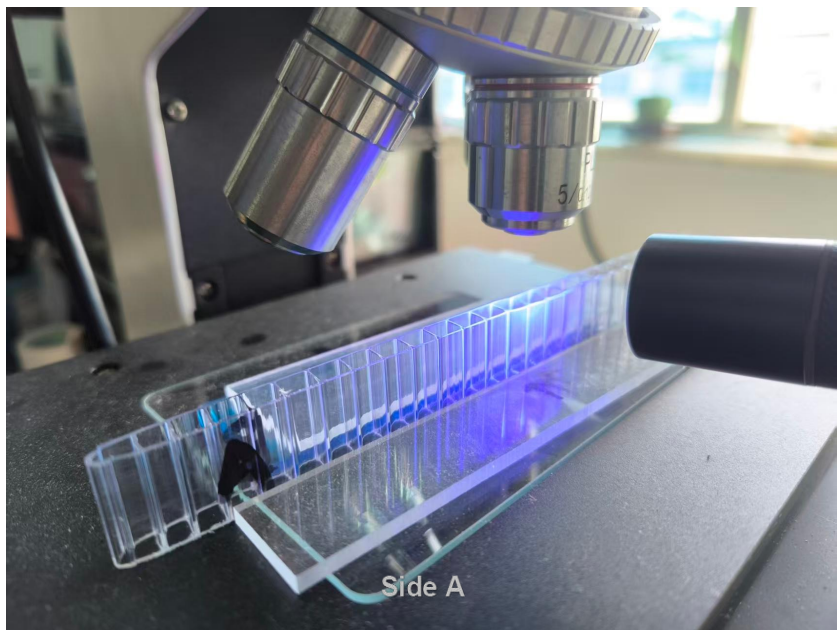
II. Differences from single-sided UV coating:

1. Protective surface: Both sides are resistant to sunlight exposure.
2. UV Protection: The double-sided version contains approximately 94% more UV-resistant anti-aging ingredients than the single-sided version, offering enhanced weather resistance and longer service life.
3. Error-resistant installation: After removing the protective film from dual-sided sheet, there is no distinction between front and back sides, minimizing installation errors; reverse installation of single-sided sheet may lead to rapid aging and cracking.

III. Irreplaceability:

In environments where sunlight shines on both sides continuously throughout the day, prolonged exposure to ultraviolet radiation on both surfaces can cause uncoated single-sided UV sheet to rapidly yellow and become brittle. Therefore, double-sided UV-coated PC Hollow Sheets must be used in such scenarios.



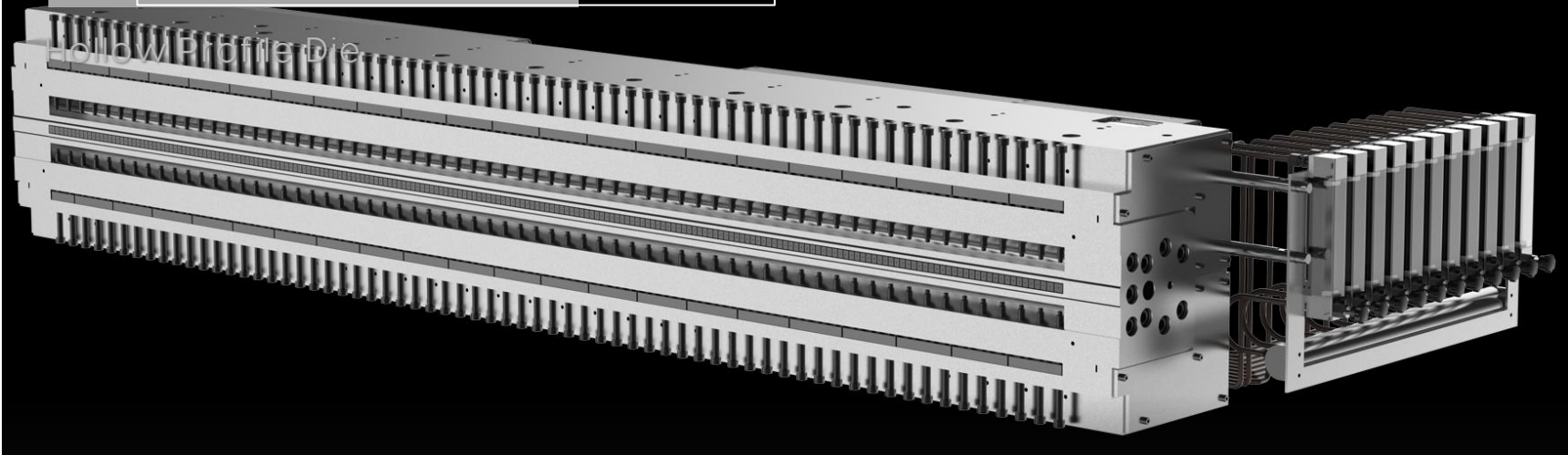


UV coating thickness: Surface A – 45.6 μm

UV coating thickness: Side B – 51.6 μm

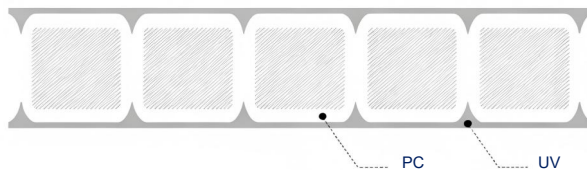


Hollow Sheet Mold



Multi-layer composite co-extrusion

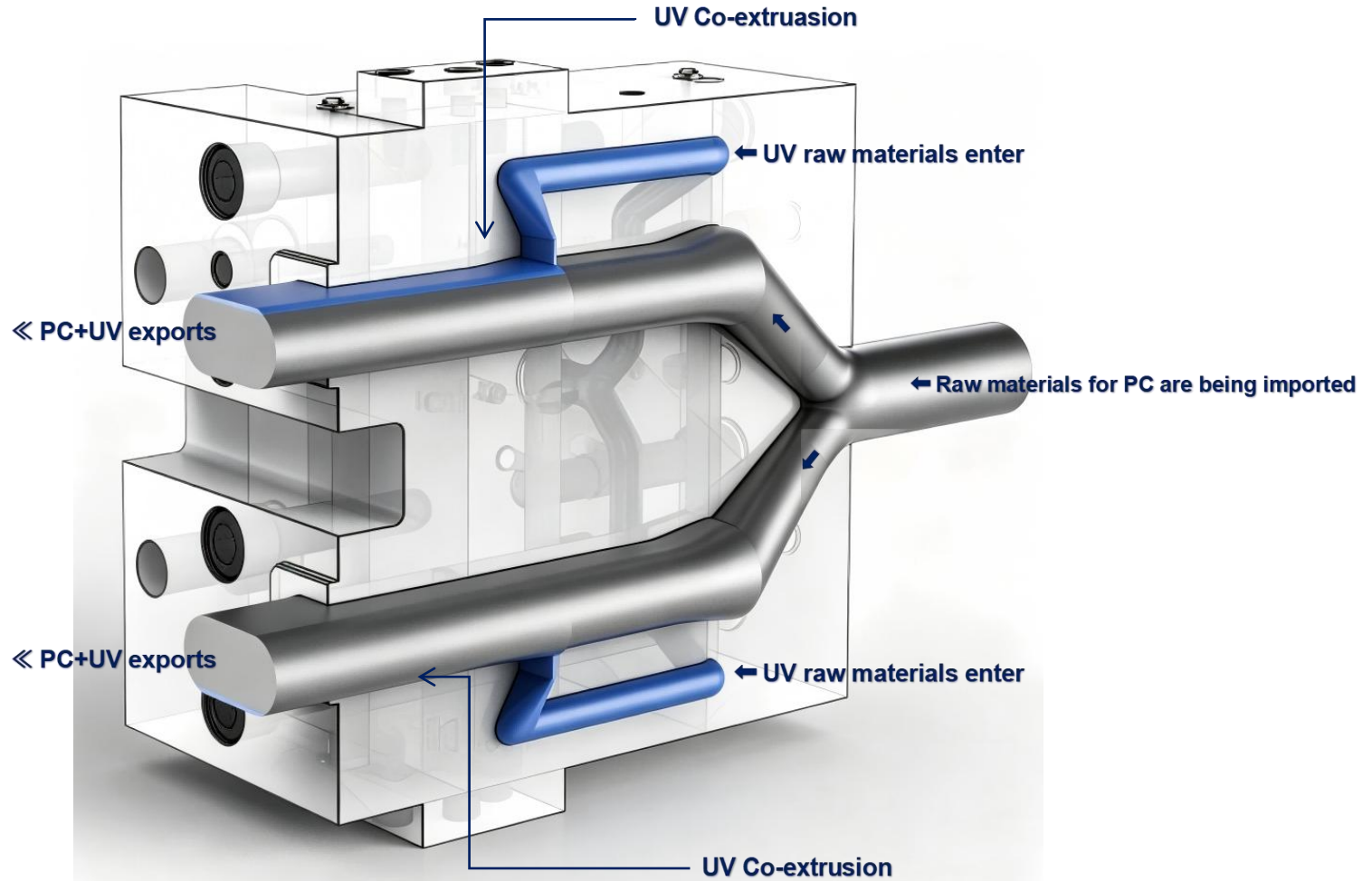
The innovative patented design of PC+UV features dual-sided composites (UV+PC+UV) and single-sided composites (UV+PC), combined with distributor-based composites, achieving a 30% reduction in UV absorber usage.



Conventional type



Energy-Saving



Double-sided UV-coated PC Hollow Sheet – Raw material melting – Distribution and fusion – Schematic diagram



Polycarbonate Hollow Sheet Product Specification

Specifications: Suitable for all series of PC hollow sheet. Color: Available for all series.

Product Features

Made of polycarbonate resin, it offers the following advantages:

Resistant to breakage, free from formaldehyde; non-flammable and safe for use.

Adaptable to extreme temperature ranges with excellent weather resistance, maintaining its transparent texture even after prolonged use.

Advantages of the hollow sandwich structure:

Excellent thermal insulation and heat retention performance; lightweight sheet with simple installation and high cost-effectiveness.

Use

Roof lighting, entrance canopy for rain protection, eaves rain shelter, smoke exhaust windows, greenhouses

Lower door sheet, partition screens, furniture cabinet doors, store window back sheet/shelf sheet

Building materials (partition sheet, double-glazed windows, rainproof windows), various display sheet, and lamp covers.

BillSheets, etc.

Matters need attention

Caution

Do not use this product near open flames or in environments with high temperatures (>120° C).

Do not remove the protective film from the surface before completion of construction and installation.

Long-term exposure to direct sunlight outdoors may cause deformation and discoloration of the sheet.

Do not place heavy objects on the surface of the panel.

The cut sheet must be securely fixed; it is recommended to use foam pads for cushioning and protection.

Manufacturer Information

Manufacturer: Zhejiang Aoci Decoration Materials Co., Ltd

Address: No.No. 2618, Rd. Haifeng, Binhai Industrial Zone, Taizhou, Zhejiang, China

Email: polycarbonatesheet@qq.com

Chinese/English: <https://www.zjaoci.com>

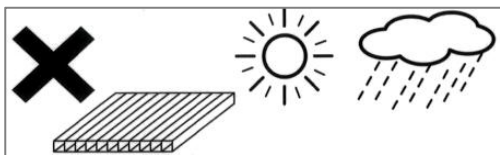
English/Spanish: <https://www.polyroofs.com>

Product model	Sectional view	TK (mm)	Rib Space (mm)	Wide (mm)	long (M)
Twin wall		4	6.5	2100 1220 1050	5.8 6 11.8 (Custom)
		6			
Twin wall		8	10.75		
		10			
		12			
Four layer		6	7		
		8			
		10			
		12			
Four layer		12	11		
		16			
Honeycom b		6	4	2100 1050	
		8	6		
		10			
		12			
X Strong		16	12		
		18			
		20			
		25			

Marking instruction

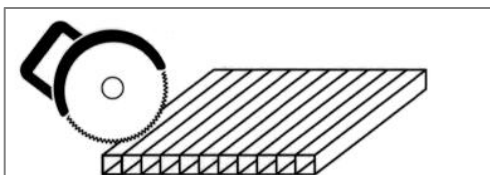
Paper Recycling / Plastic Recycling





Storage and Transportation

When storing or transporting, keep the package flat.
Do not place in direct sunlight or areas with rain exposure.
Do not remove the protective film before installation to prevent scratches on the panel surface.



Cut Tool Requirements

The material can be cut using a circular saw (fixed/portable, with hardwood cutting blades) or a curved saw (short-toothed type, with universal blades).

Push the saw blade slowly during cutting.

△Cutting powder can easily enter the hollow layers of the plate, so extra caution is required.

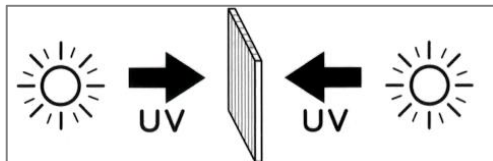
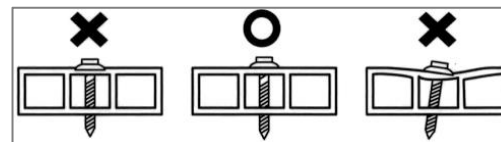


Plate UV Protection

Both sides of the panel are coated with a UV-resistant layer, effectively blocking ultraviolet radiation.



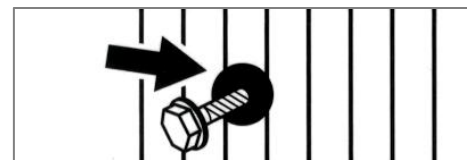
Screw Installation Specifications

✗Error: The screw is not fully tightened against the plate

○Correct: Screw washer with reserved expansion clearance

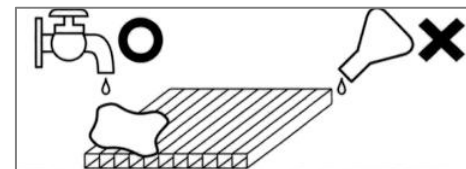
✗Error: The screw was inserted at an angle into the plate.
When installing with an electric screwdriver, do not over-tighten the screws.

The screw must be inserted vertically to prevent oblique locking.



Thermal expansion allowance opening

Due to the thermal expansion and contraction properties of the material, the drill hole diameter should be 20–30% larger than the screw diameter.



Clean and Maintain

The use of organic solvents is strictly prohibited when cleaning the panel surface.

Wipe with a soft cloth dipped in clean water; you may also use a neutral detergent diluted in water for cleaning.

✗Use of organic solvents for cleaning is prohibited

