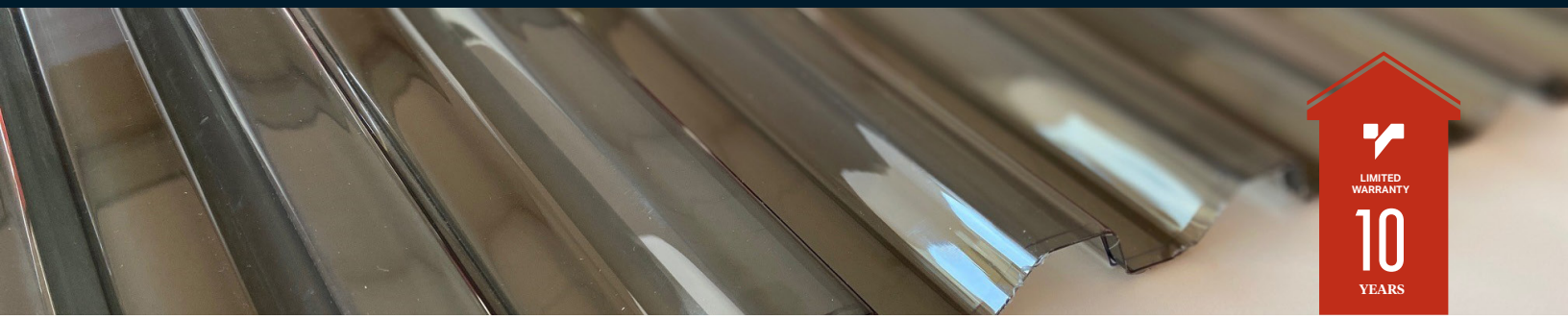
Polycarbonate

Corrugated Panels

vicwest

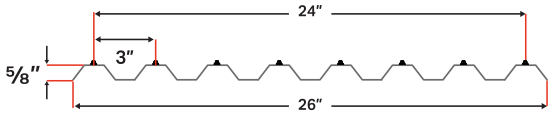


Designed to be lightweight, durable, impact resistant, and have long-term UV resistance properties. Our polycarbonate panels are the perfect product for any outdoor or backyard DIY projects for outdoor living areas.

Polycarbonate Corrugated Panels

- Lightweight
- Impact Resistant
- Long-term weather and UV resistant

Greca Profile

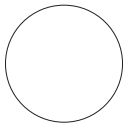


Thickness	0.032"
Rib Height	5/8"
Panel Coverage	24"
Panel Length	8', 10', 12'

Performance and Testing

Flash Ignition Temperature	Test Standard	Result
Clear	ASTM D1929-2020	Average Mass (g) - 2.9 Flash Ignition Temp (°C) - 481 Self-Ignition Temp (°C) - 517
Solar Grey	ASTM D1929-2020	Average Mass (g) - 2.9 Flash Ignition Temp (°C) - 470 Self-Ignition Temp (°C) - 533
Fire Resistance	**Test Standard**	**Result**
Clear	ASTM E84	Flame Spread Index - 0 Smoke Developed Index - 250
Solar Grey	ASTM E84	Flame Spread Index - 0 Smoke Developed Index - 300
Density of Smoke from Burning	**Test Standard**	**Result**
Clear	ASTM D2843-2019	Light Absorption (%) - 90.2 Smoke Density - 70.2
Solar Grey	ASTM D2843-2019	Light Absorption (%) - 88.6 Smoke Density - 68.2
Rate of Burning	**Test Standard**	**Result**
Clear	ASTM D635-2018	IBC Reference to Test Method D635 - Pass
Solar Grey	ASTM D635-2018	IBC Reference to Test Method D635 - Pass

Colors



Clear

8"	V077849
10"	V077850
12"	V077851

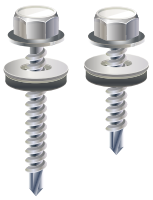
90% Light Transmission

Solar Grey

8"	V077852
10"	V077853
12"	V077854

35% Light Transmission

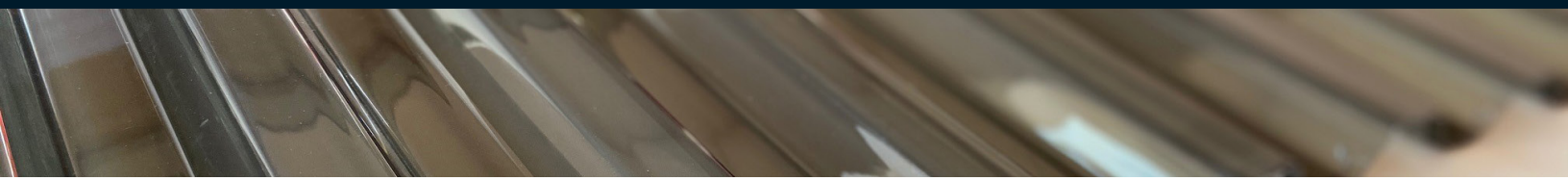
Available in two distinct color variations Clear and Solar Gray and coated with premium UV inhibitors to block harmful UV rays, all-the-while allowing just the right amount of light transmittance through.



Metal Tite
Special EPDM Washered Fasteners for fastening to metal framing.

Handling and Storage

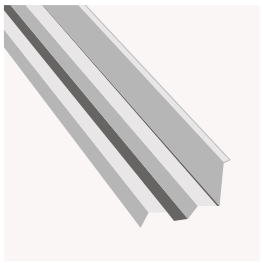
It is advised to NOT leave panels stacked together in direct sun before installation of your project; heat buildup between panels magnifies as sunlight passes through each panel.



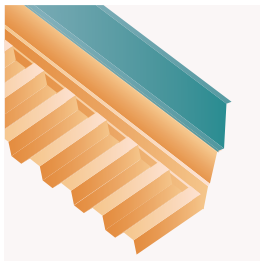
Accessories

The following accessories are available for use in your Vicwest installation. Note that these accessories are made for use with the Vicwest profile panels and may not be compatible for use with other Vicwest's products.

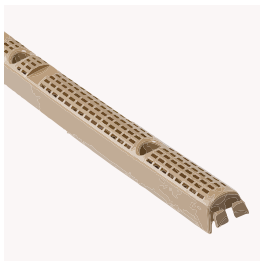
Ridge Cap Flashing
4'-2" L x 12" W
Clear: V048551
Solar Grey: V048557



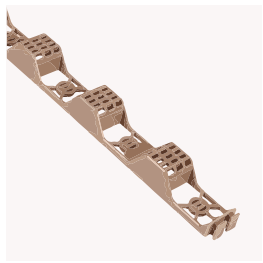
Side Ridge Flashing
4'-2" L x 7" W
Clear: V048558
Solar Grey: V048565



Wall Connector Flashing
4'-2" L x 8" W
Clear: V048626
Solar Grey: V048631



Vertical Closure Strip
7/8" H x 1 3/16" W x 24" L
V050597



Horizontal Closure Strip
3/4" H x 7/8" W x 24" L
V050596

Typical Canopy Framing Detail | *See next page for legend*

Sealants

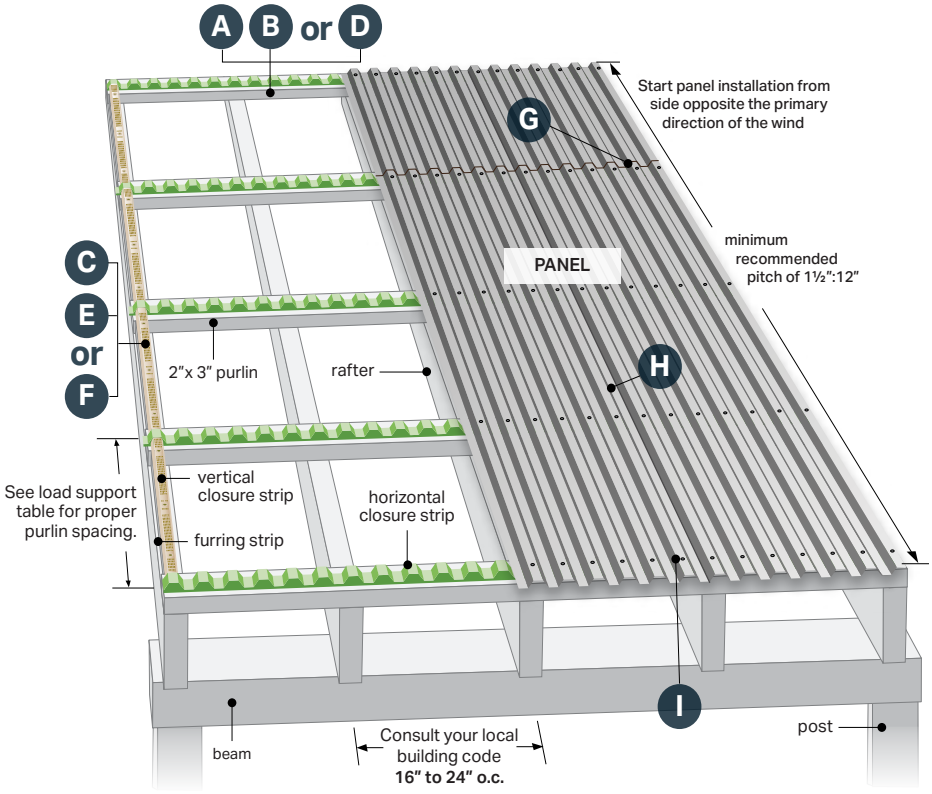
100% silicone-based sealant that is resistant from sun, moisture, weathering and temperature change are recommended.

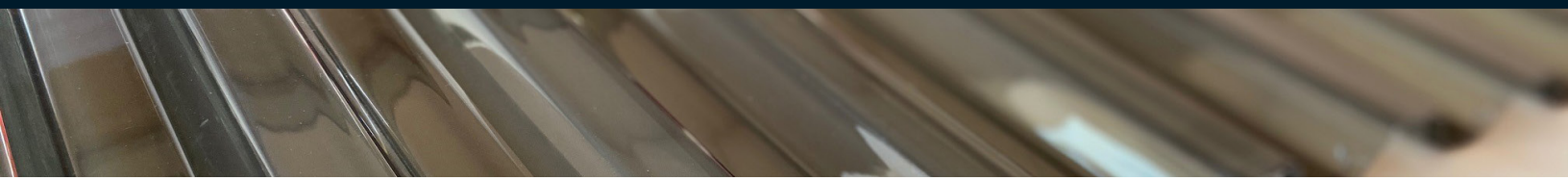
Closure Strips

Plastic corrugated closure strips are required. They are designed to run horizontally between polycarbonate panels and purlins or cross support beams. Closure strips provide additional fastening support. Vertical closure strips are highly recommended for projects with a finishing outside edge.

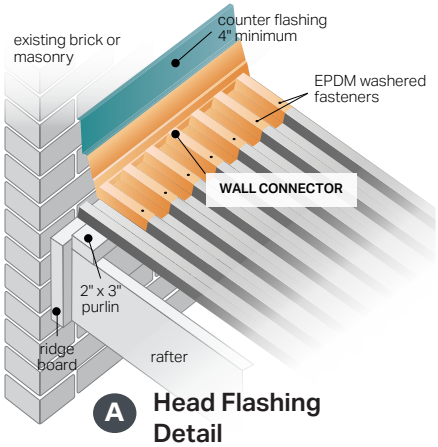
Pitch

The minimum slope for polycarbonate panels is 1½" per 12". Additional sealant may be required on lower pitch installations to maximize weather resistance.

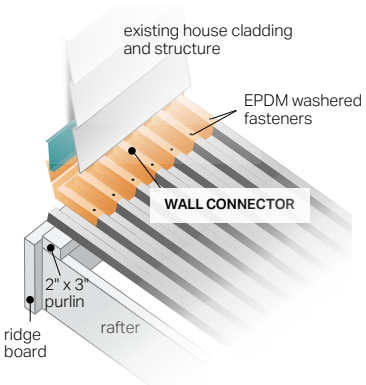




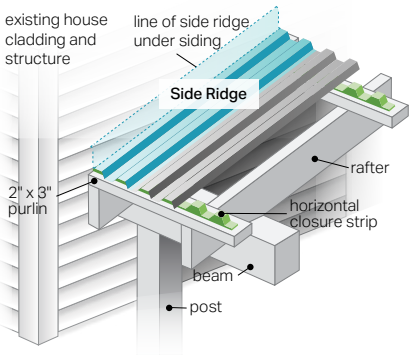
Installation details for a typical canopy structure



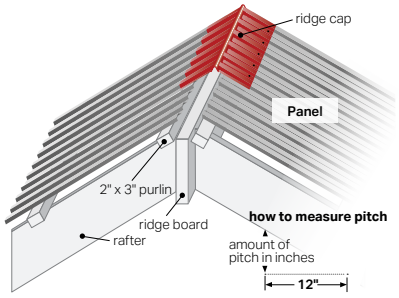
A Head Flashing Detail



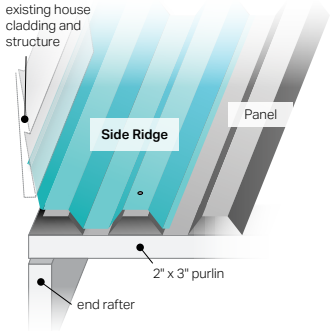
B Head Flashing Detail at Sided Wall



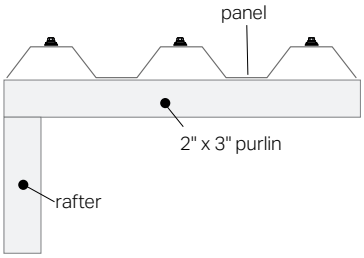
C Sidewall Flashing Detail



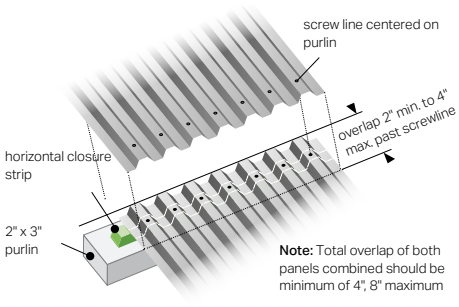
D Ridge Detail



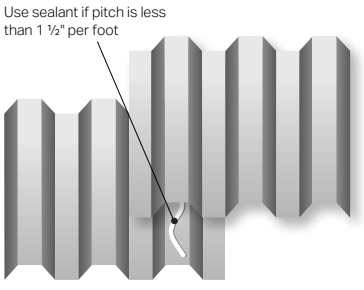
E Flashing Detail



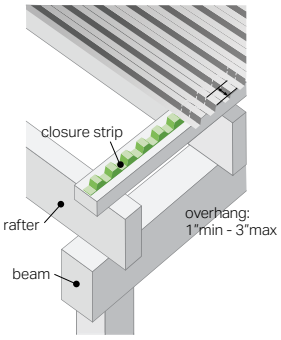
F Rake Detail



G Overlap Detail



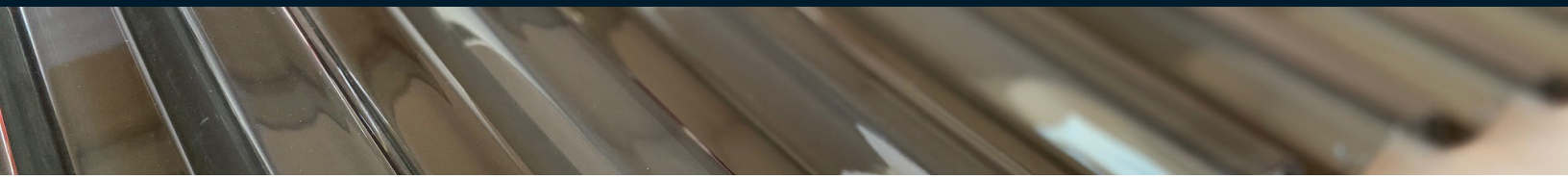
H Detail at Seam



I Bottom Closure Detail

Safety

Never walk on Polycarbonate panels. Use a board placed across at least three purlins or cross supports to spread the load.



Before You Begin Your Project

Inspect panels to ensure the color is consistent throughout the batch.

Verify all trim and accessories match the polycarbonate profile and fit together as intended. Snow, wind and weather loads in your area should be considered before establishing the slope degree of your structure. Before installation, check local building codes for relevant specifications and recommendations. Follow local building code and regulations at all times.

Installation

Cutting Panels

For best results it is recommended that you use a circular saw with a fine-tooth blade mounted in reverse. A jigsaw can be used for cutting short-length, irregular or curved lines and a utility knife or a pair of snips can work for limited cuts. When cutting panels, support panels to avoid excessive vibration and make slow passes for the cleanest cut.

Note: Up to five panels can be cut in congruent with on one another with a circular saw.

Panels may be used for curved structures; however, the radius of the curve must be no shorter than 240" or 20 feet across.

Drilling should be done with a power drill using regular high-speed steel bits intended for metal, rotating at about 1,000 RPM. Clamp panels down to a secure surface to avoid vibrations or movement during fastening.

Tips: It is recommended to tighten all fasteners with EPDM washers for best results. Over tightening will result in washers becoming deformed and resulting in water seepage in the future.

Panel Orientation: Install panels with the UV label side facing up. This will ensure that the UV protection layer is on the side facing the sun. Failure to follow this advice will result in the possible pane discoloration.

Maintenance and Care

When cleaning polycarbonate panels NEVER use chemicals containing synthetic materials or ammonia-based cleaning products. Polycarbonate panels should be cleaned with warm water combined with a mild to light detergent. DO NOT use abrasives when cleaning panels i.e., abrasive sponges or brushes as they will mark and scratch surface panels.

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Built for tomorrow with a warranty that protects for tomorrow

Our warranty is tailored to meet the toughest limits achievable based on the product attributes and intended application. For our Polycarbonates, that's 10 years.