

Naturelite SolaSky™ Profile Polycarbonate Roofing Sheets

This guide provides advice on handling, protecting and installing Naturelite's SolaSky™ profile polycarbonate roofing sheets to ensure you get the most out of your profile polycarbonate sheets for the longest period of time.

Transportation

SolaSky™ sheets should be transported securely on a flat, padded surface ensuring protection from scratches and exposure to chemicals.

Storage

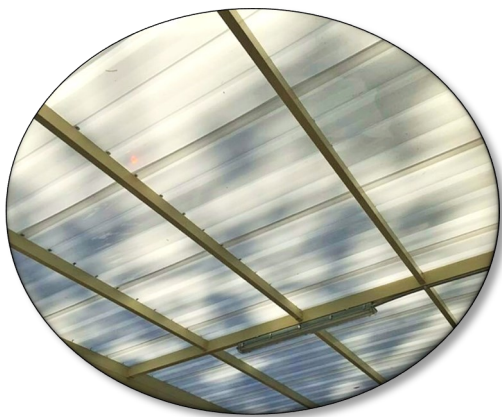
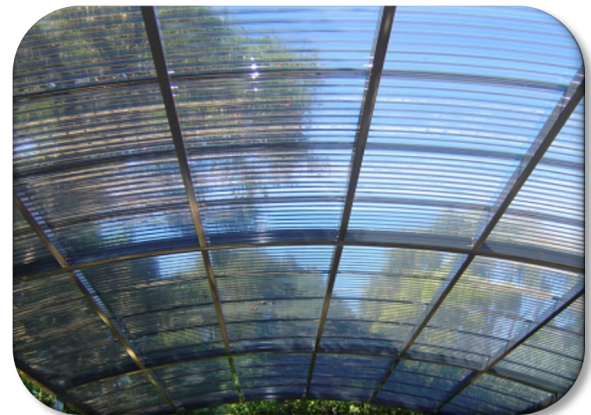
SolaSky™ sheets should be stored in a dry, cool, well ventilated, undercover area out of direct sunlight. Avoid contact with high temperatures, rain and moisture. Failure to properly store the sheets will void relevant warranties.

Handling

- SolaSky™ sheets should always be protected from any physical damage before and during installation.
- SolaSky™ sheets should not be used to support a person's weight at any time. Do not walk over the sheets while in storage, during or after installation.
- Use safe step ladders and crawling boards placed across at least two cross supports during installation and cleaning.
- Always avoid folding over ribs/corrugations.
- Do not drag the sheets on the ground, lean them on rough objects or scrape against structural components.

Exposure to Solvents, Harsh Cleaning Agents and Other Chemicals

SolaSky™ sheets must not come in contact with solvents, harsh cleaning agents and other chemicals that will react with polycarbonate. Contact with such substances will damage the sheets and void all relevant warranties.



Compatible Adhesives and Sealants

Only use adhesives and sealants that specifically state are compatible with polycarbonate.

Cleaning

SolaSky™ sheets do not require any special cleaning treatments. Simply clean the profile sheets using a soft sponge or cloth and warm soapy water (very mild, neutral detergent). Hose the sheets down well and allow to dry naturally. Do not rub or scrub the surface of the sheets with brushes or sharp objects.

SolaSky™ Profile Polycarbonate Sheets Installation Guide

Safety Considerations

- Ensure you have all the appropriate personal protective equipment for your project.
- Use heavy duty cut-resistant gloves, especially when handling and moving sheets.
- Follow the manufacturer's safety advice when using power tools and stepladders.
- Never walk over the sheets whilst in storage, during or after installation. Use step ladders and crawling boards during installation and cleaning.
- Ensure step ladders are set up on firm, flat surfaces.
- Ensure crawl boards are placed across at least two cross supports.
- Adhere to all local safety regulations and codes; and ensure all necessary permits have been obtained.



Cutting SolaSky™ Sheets

SolaSky™ sheets can be cut with a circular saw using a very fine tooth blade suitable for cutting plastic. For limited localised jobs, the sheets may also be cut by hand with careful use of a hand saw, utility blade, scissors or metal shears. When cutting profile sheets, the overlap strips should be cut at the same point so the wave pattern is consistent across the entire roof. Ensure the sheets are securely clamped to a work table and pressed down to avoid vibrations during cutting.

Pre-drilling Fixing Holes

Pre-drill 10mm fixing holes if not using screws with expansion hole cutters for sheet lengths no greater than 7.2 metres. Pre-drilling of fixing holes is necessary for maximum performance of the profile sheets and to ensure the sheets have room to expand and contract with temperature changes. Oversize the holes and centre fixings. Failure to perform this step may lead to buckling and warping of the sheets. Do not overtighten screws.

Pitch Fall and Purlin Spacings

Profile	Recommended Minimum Pitch Fall	End Span (mm)	Mid Span (mm)	Weight (kg/m ²)
Corrugated	5 degrees, 88mm per metre	800	1000	1.10
Greca	5 degrees, 88mm per metre	900	1000	1.13
Trimdek/5 Rib	3 degrees, 52mm per metre	900	1200	1.11

Other profiles available on request.

Laying and Fixing SolaSky™ Sheets

- Prior to laying and fixing the sheets, use noise reduction/purlin tape on every purlin/batten.
- Ensure the UV coated side of the sheets faces upwards towards the sun. Discolouration and deterioration of the sheets may occur faster if the unprotected side faces the sun.
- Ensure sheet surfaces are well protected during installation to avoid scratches.
- When laying the sheets, start with an end sheet first ensuring the openings where the sheets overlap (side laps) are away from prevailing winds.
- Never start laying the sheets from two separate points.
- SolaSky™ sheets must be laid and fixed without force, pull or stress. If combining SolaSky™ sheets with metal sheets, overlap the polycarbonate sheets on top of both sides of the metal sheets.

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Overhang and Overlaps

Profile	Recommended Minimum Overlap
Corrugated	1.5 ribs/corrugations
Greca	1 rib/corrugation
Trimdek/5 Rib	1 rib/corrugation

- Allow a maximum overhang of 50mm at the gutter line roof edge.
- Maximum sheet length should not exceed 7.2 metres.
- Overlaps should take place between 200-300mm above the closest purlin/batten.
- Ensure overlaps are facing away from the prevailing wind direction.


Curved Structures

Profile sheets can be cold curved on site. The minimum recommended curving radius for each profile type is provided below:

Roofing Sheet Profile	Minimum Radius	Maximum Recommend Purlin Spacing
Corrugated	3500mm	750mm
Greca	3500mm	750mm
Trimdek/5 Rib	14000mm	750mm



Fixings Spacing

Profile	Fixing Spacing		
Corrugated	End purlins	Every 2 nd crest	In high wind areas, fix on every second corrugation on each purlin/batten.
	Mid purlins	Every 3 rd crest	
Greca	End purlins	Every 2 nd crest	In high wind areas, fix on every second corrugation on each purlin/batten.
	Mid purlins	Every 3 rd crest	
Trimdek/ 5 Rib	End purlins	Every crest	
	Mid purlins	Every crest	

Note: Fixings should be through the crest, not the valley of the sheet profile.

Cappings and Flashings

Once all the SolaSky™ sheets have been installed, the structure should be finished off with quality metal cappings and flashings to ensure weather and watertightness.

- For under-gutter structures, install suitable metal barge capping to the edge of the sheets. Before laying sheets, fit the back channel flashing with infill strips under the gutter. Fix and seal well.
- For wall/fascia-attached structures, install suitable metal barge capping to the edge of the sheets and flashing at the wall/fascia. Fix and seal well.

Disclaimer: The information provided in this brochure is general in form and should not be relied on or treated as a substitute for professional building or installation advice. It is highly recommended you seek the advice of a professional builder or installer to determine the suitability of these products and how to install them for your specific use. Any future updates to this brochure will be published on the Naturelite website: www.naturelite.com.au.

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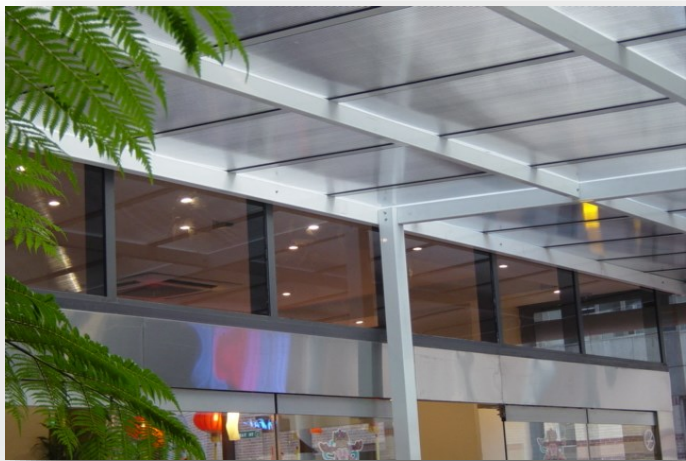


SolaLite™ | SolaGlaze™ | SolaSky™

Naturelite SolaGlaze™ Solid Polycarbonate Roofing Sheets

An outstanding class of polycarbonate roofing sheets combining superior impact resistance, elegant smooth appeal, flexibility, excellent light transmission properties and UV protection.

Naturelite's SolaGlaze™ solid polycarbonate roofing sheets are chosen by architects, building professionals and renovators for its high quality physical properties, ease of installation and as an attractive, practical alternative to glass.



Naturelite SolaLite™ Twinwall Polycarbonate Roofing Sheets

SolaLite™ twinwall polycarbonate roofing sheets feature a strong cellular construction providing thermal insulation and excellent impact resistance. This is a high quality product that combines attractive, modern appeal with high performance and is suitable for both commercial and residential constructions.

Naturelite DIY Pergola/Patio Kits

Quality, sturdy and durable constructions where the designs and plans have already been done for you. All you have to do is choose your size, roofing sheet profile and colours. Designed with style, ease of installation, durability, quality materials and affordability in mind, Naturelite's DIY kits are an excellent complete roofing solution option.



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