

**SKYWALL®**

# **SOLID CR PRISM**

CORRUGATED POLYCARBONATE SHEET



# Prism-embossed corrugated polycarbonate sheet for enhanced daylighting, good aesthetics and improved rigidity.

-  Simple DIY Installation
-  Lightweight
-  UV Protection
-  High Impact Resistance

**Skywall Solid CR Prism** is a versatile corrugated polycarbonate sheet for rooflighting, glazing, cladding and canopy applications. The prism-embossed surface provides an attractive appearance while helping diffuse light and improve performance in architectural, industrial, agricultural and DIY uses.

### PRODUCT RANGE

| Specification | Details                                          | TYPICAL APPLICATIONS                                                                                                                                                |
|---------------|--------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product       | Solid CR Prism                                   | <ul style="list-style-type: none"><li>• Rooflights and vertical glazing</li><li>• Canopies and walkways</li><li>• Agricultural and industrial daylighting</li></ul> |
| Thickness     | 2.6 mm                                           |                                                                                                                                                                     |
| Sheet Width   | up to 1045 mm                                    |                                                                                                                                                                     |
| Finish        | Prism/Diamond Embossed                           |                                                                                                                                                                     |
| Profile       | Corrugated                                       |                                                                                                                                                                     |
| Applications  | Rooflights, vertical glazing, canopies, walkways |                                                                                                                                                                     |

### COLOR OPTION

Color variants available

-  Clear Prism
-  Brown Prism
-  Blue Smoke Prism



# Applications

Versatile solutions for brighter spaces.

## Construction

**Skywall Solid CR Prism** is available in practical corrugated profiles for daylighting use in new and refurbished roofing and glazing applications.

-  Rooflights
-  Canopies & Walkways
-  Vertical Glazing



## DIY

The lightweight but robust sheet can be cut and drilled with standard tools, making it suitable for general-purpose DIY glazing and shelter projects.

-  Sun Houses
-  Canopies
-  Sheds
-  Partitions



## Horticulture

**Skywall Solid CR Prism** is a suitable material for propagating and nurturing seedlings thanks to its light transmission, weather resistance and good workability.



Greenhouse



Propagation Units



Cloches



## Agriculture

The bright, durable surface and good resistance to corrosion make Solid CR Prism suitable for agricultural buildings and interior cladding applications.



Poultry Farms



Livestock Buildings



Food Preparation Areas



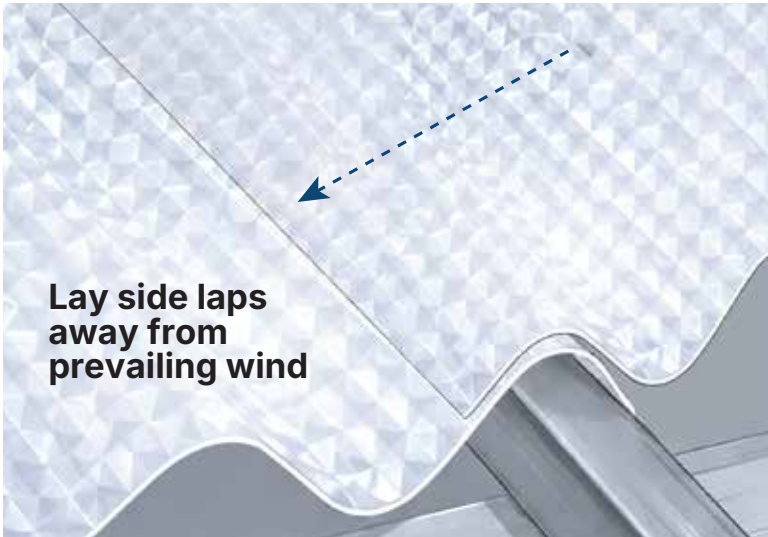
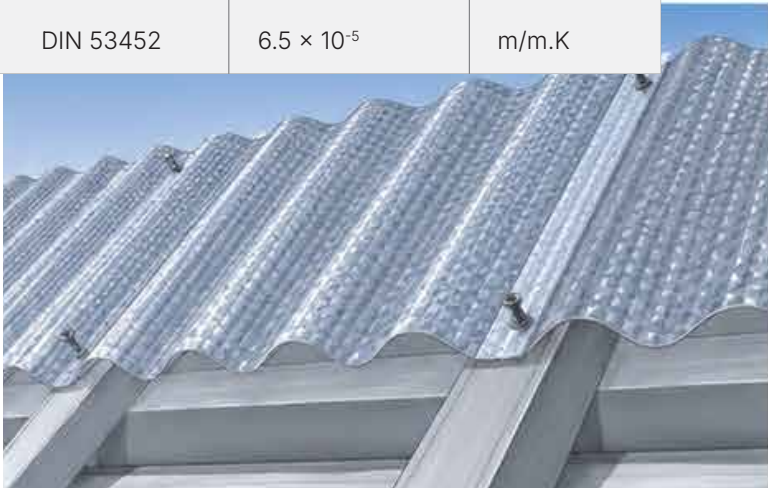


# TECHNICAL INFORMATION & Installation Guidelines

| Properties |                           | Test Method   | Value                  | Units             |
|------------|---------------------------|---------------|------------------------|-------------------|
| Mechanical | Tensile strength at yield | DIN 53455     | 62                     | MPa               |
|            | Elongation at break       | DIN 53455     | >70                    | %                 |
| Physical   | Density                   | DIN 53459     | 1.2                    | g/cm <sup>3</sup> |
| Thermal    | Working temperature       | iso 75-2:2013 | -40 ~ 120              | °C                |
|            | Liner thermal expansion   | DIN 53452     | 6.5 × 10 <sup>-5</sup> | m/m.K             |

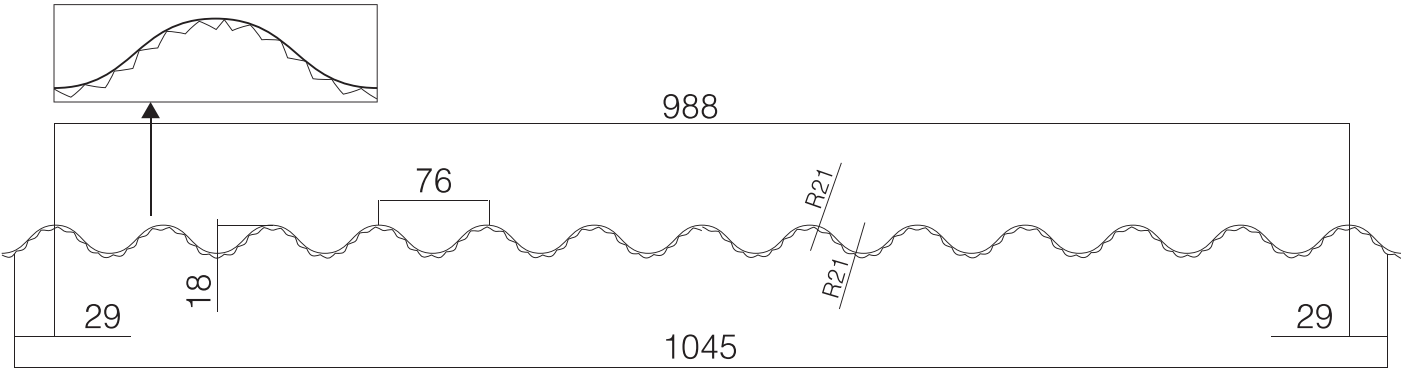
## KEY INSTALLATION GUIDELINES

- Store sheets on a flat surface and keep protected from direct sunlight, rain and harsh weather conditions.
- Install sheets with the corrugations running vertically or up-slope.
- Ensure a minimum roof slope of 5° to allow adequate rainwater run-off.
- Sheets can be cut with hand saws or a variety of power saws. Always ensure the sheet is well supported and does not vibrate during cutting.
- Use only sealants and tapes that are compatible with polycarbonate.
- Side laps should be laid away from the prevailing wind.
- Use a clear, neutral silicone glazing sealant to seal the bottom of the laps.
- Maximum recommended sheet length is 6 m.
- Suitable for use on curved roof structures when fixed correctly over a central purlin.



**Lay side laps  
away from  
prevailing wind**

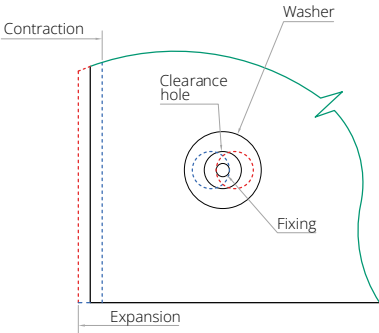
PRODUCT PROFILE & DIMENSION



| Profile (mm) | Thickness (mm) | Length (m) | Overall Width (mm) | Cover Width (mm) | Side-Lap (%) |
|--------------|----------------|------------|--------------------|------------------|--------------|
| 76/18        | 2.8            | 4/6        | 1045               | 988              | 5.5          |

DRILLING & FIXING

- Allow for thermal movement of the sheet when fixing.
- Drill oversized fixing holes (see table).
- Avoid overtightening of fixings.
- Drill at least 50 mm from the sheet edge.
- Suitable metal drill bits may be used at low speed.
- Support the sheet during drilling to prevent vibration.



Rekomendation Hole Size

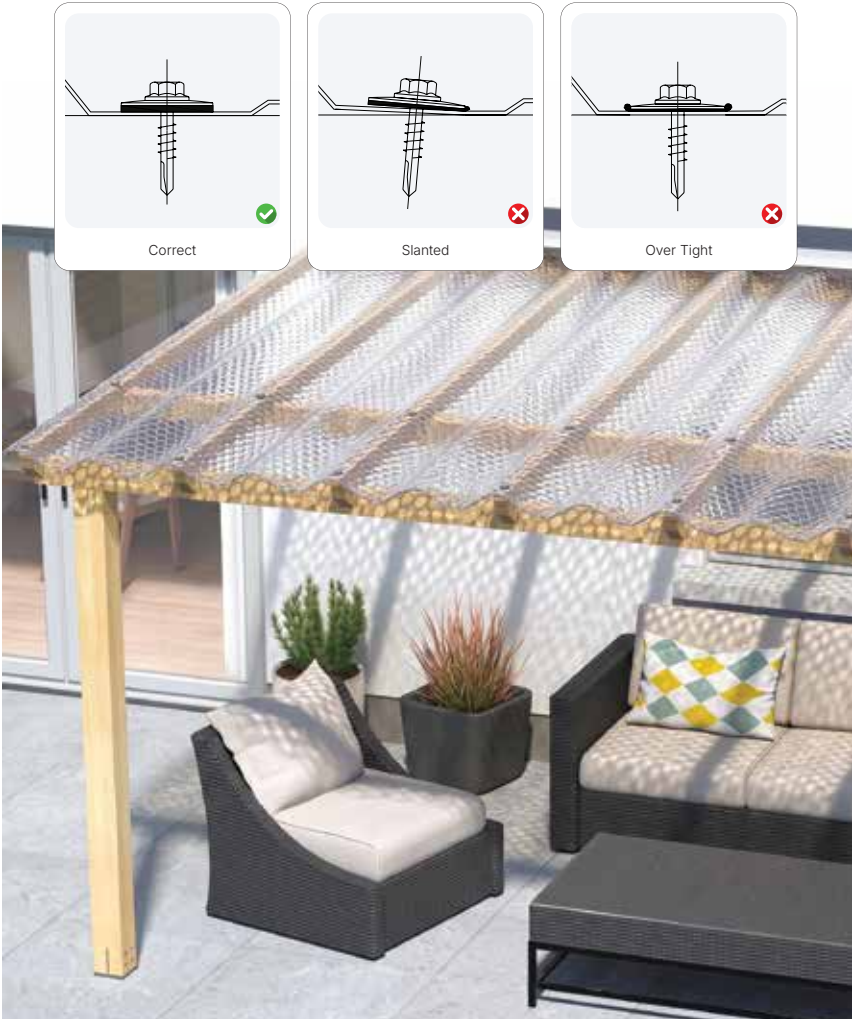
| Sheet Length (m) | Hole Diameter (mm) |
|------------------|--------------------|
| 2.0              | 9                  |
| 2.5              | 10                 |
| 3.0              | 11                 |
| 3.5              | 12                 |
| 4.0              | 13                 |

CLEANING

- Rinse the sheet with lukewarm water to remove dust and dirt.
- Wash with a mild household cleaner or soap and water.
- Use a sponge or soft cloth to clean the surface.
- For larger areas, high-pressure water may be used carefully to remove stubborn dirt.

WARNING!

- Avoid using abrasive cleaners or sharp instruments.
- Do not use harsh alkaline cleaners.



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