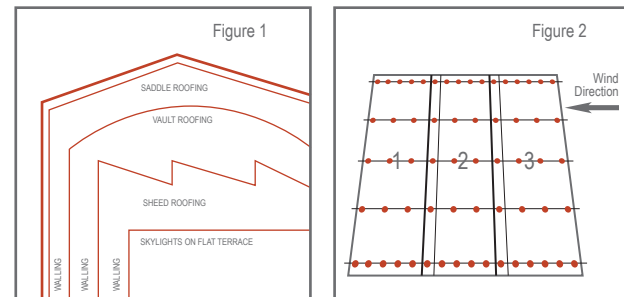


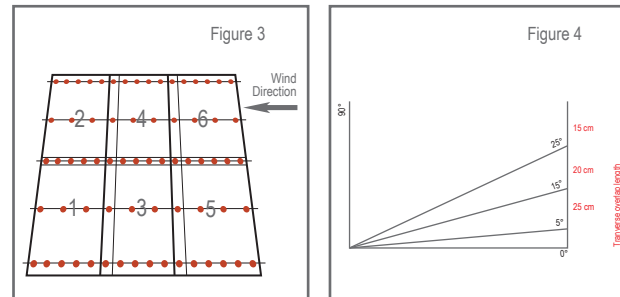
# Installation



1. The types of roofs where PolyLight sheets might be used. (Figure 1)

2. Fixing scheme for only side overlapping sheets roof (Figure 2)

On sheet heads purlins fix every wave or rib. On intermediate purlins fix every overlapping wave or rib. Other waves on intermediate purlins to be fixed according to the sheets profile. Avoid to leave more than one purlin with no fixings (2 m max.).



3. Fixing overlapping scheme for side and transverse overlapping sheets roof (Figure 3)

On sheets heads and transverse overlaps purlins fix every wave or rib. On intermediate purlins fix every overlapping wave or rib. Other waves on intermediate purlins to be fixed according to the sheets profile. Avoid to leave more than one purlin with no fixing (2 m max.).

4. Transverse overlap length (Figure 4)

According to slope as shown in the diagram

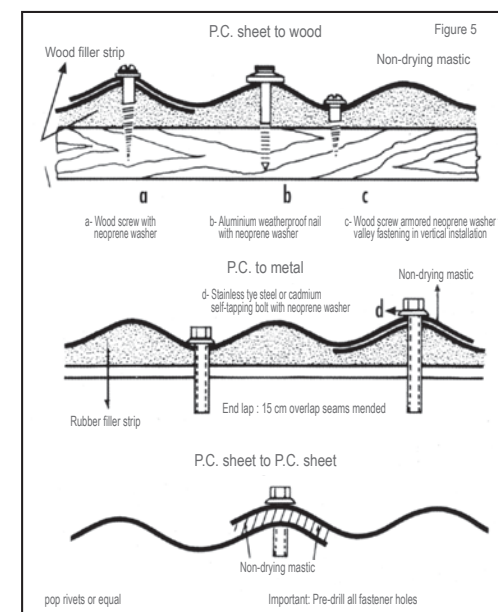
5. Side overlap

For corrugated sheets having a wave height less than 30 mm overlap at least 2 waves.

For corrugated sheets having a wave height more than 30 mm overlap at least 1 wave.

For ribbed sheets having a wave height less than 25 mm overlap 1 rib with a sealing.

For ribbed sheets having a wave height more than 25 mm overlap 1 rib with a sealing.



## 1. Cutting

Sheets can be cut using power or hand saws. Saw blades should be fine-toothed carbide type or a safety fabric reinforced abrasive disc. Face shields and appropriate safety equipment should be worn by all operators. Some typical installation details are shown in figure 5.

## 2. Drilling

All sheets should be pre-drilled not less than 4 cm from the sheet end and the holes drilled a minimum of 1.6 mm larger than the fastener diameter.

## 3. Fastening

When possible, fasteners should be installed at high point of the corrugation with spacings of 15 cm to 20 cm on the center at sheet end and 30 to 40 cm on center for immediate purlins and siding applications.

## 4. Sealing

Seal end and side laps with a flexible non-hardening UV-stabilized butyl caulk.

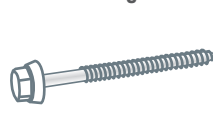
## 5. Installation

Under no circumstances should sheets be allowed to support undistributed loads such as the weight of a human body. Use roof ladders for installation. Clean all waste material on the sheets after installation is complete.

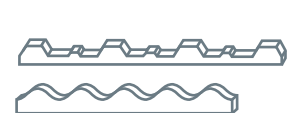
Washers matching the color of PolyLight Sheets



Self-drilling screw



EPDM foam filler

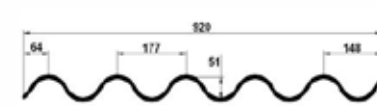


**IMPORTANT:** Necessary care has been given in order to provide an accurate information. Yet Polser FRP Panels Inc. does not accept any responsibility for the accuracy of the information given in this document. Polser retains the right to make any changes on the information given in this brochure without prior acknowledgement.

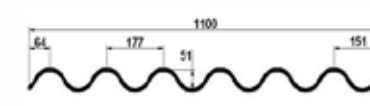
## POLYLIGHT Profile Types

All Dimensions in Millimeters

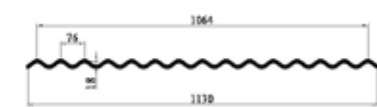
CODE 602 177/51 P5



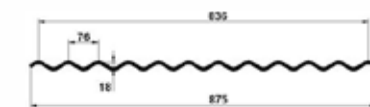
CODE 603 177/51 P6



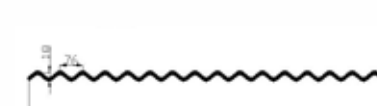
CODE 704 76/18 15 Wave



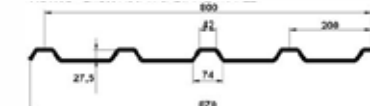
CODE 705 76/18 12 Wave



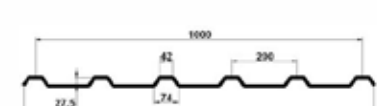
CODE 706 76/18 16 Wave



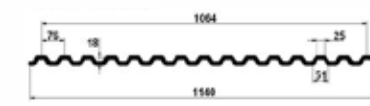
CODE 812 27/200 5 Corrigations



CODE 827 27/200 6 Corrigations



CODE 970 76/18 Grece 15 Wave



CODE 900 Flat



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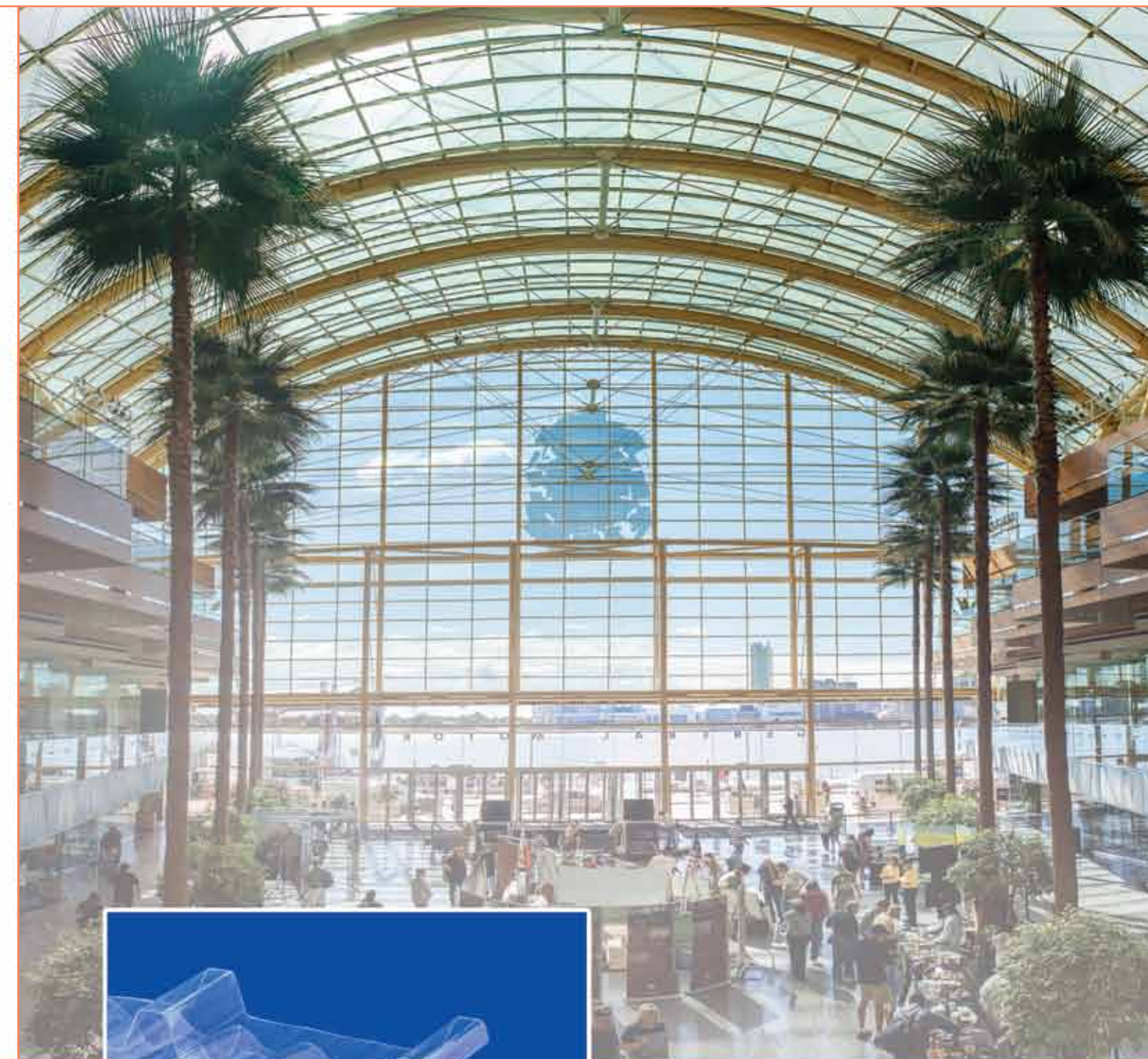


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Turkish Standards Institute  
Quality Certificate  
TS-EN 1013

**POLYLIGHT**



**Polycarbonate Sheets**



# POLYLIGHT® Polycarbonate Sheets

Polylight polycarbonate corrugated and flat sheets are produced by Polser Şeffaf Çatı Örtüleri San. ve Tic. A.Ş., the biggest producer of PC and GRP roofing sheets in Turkey.

The production facilities of Polser A.Ş. extends on a 11.000 m<sup>2</sup> area.

Polylight sheets are produced with only prime raw materials as per the requirements of European building material standards and are certified as per EN 1013. Polycarbonate is a high quality plastic which is very durable against natural weathering.

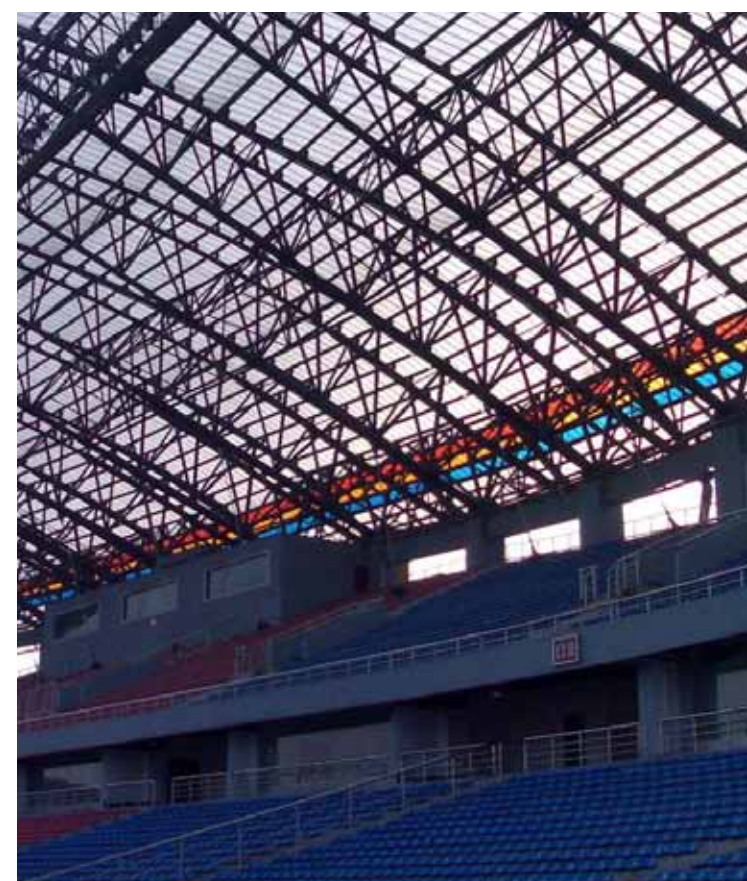
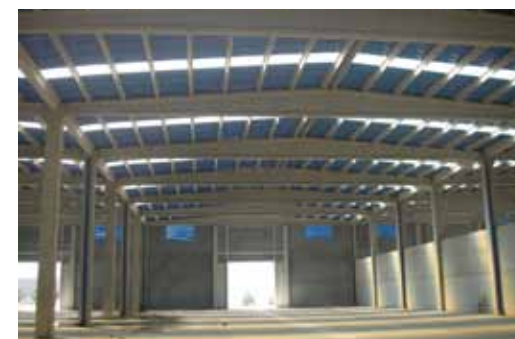
Polylight sheets are produced in DIY and industrial grades. Industrial grade Polylight sheets are backed with a 10 year warranty by Polser A.Ş.

Polylight sheets have the highest light transmission values to ensure that you get more daylight for your applications.



## Common Applications

- Home improvement works (patio covers, decorative partitions, screens, fencing, etc.)
- Green houses
- As rooflights and walllights of industrial buildings
- Car ports
- Architectural glazing applications



Incorrect cleaning which in any way damages the sheet automatically renders void all warranties. Check suitability of any cleaner with our Technical Dept before use.

## General Information On Polycarbonate Sheets

Polycarbonate sheets are durable thermoplastic roofing products but they should be handled and installed correctly to ensure a long service life.

Polycarbonate sheets could be used as rooflights together with steel roofing products. While using them with PVC plastisol coated metal sheets, plasticized washers and tapes a protective tape should be used to prevent the contact of polycarbonate sheets with these other materials since this type of contact would weaken polycarbonate sheets quickly due to chemical interaction.

Polycarbonate sheets resists general corrosion but when you suspect existence of aggressive chemicals please contact our sales team to confirm the resistance of the product.

A main source of failure of polycarbonate sheets could be stress cracking and crazing. Micro cracks that could happen around fixings could deteriorate mechanical strengths of polycarbonate sheets. Therefore necessary expansion space should be left at fixations and once fixed it should be made sure that the sheet is not under stress and tension.

Polycarbonate sheets should not get into contact with solvents, adhesives, sealants and paints.

The water resistance of polycarbonate sheets drop at around 60°C. Therefore there should be not be any water accumulation of water that is in contact with the sheets.

## Polycarbonate rooflights are particularly vulnerable to scratching.

- Do not scrub with abrasive materials, brushes or sharp materials as these will mark the surface of the sheet.
- Never use alkaline cleaners, thinners, solvents or abrasive cleaners.
- Use low pressure if pressure washing. Never use steam clean,
- Never use : acetone, petrol, benzene, or solvents containing Butyl Cellosolve or Isopropanol.

## Storage

Polycarbonate should be stored preferably on a sheet long pallet or when not possible on wooden rafters of 500 mm spacing.

The sheets should be stored indoors when possible but if the sheets are going be stored outside then they should be protected from sun, rain and wind.

## Maintenance

Polycarbonate sheets, their fixings and sealants should be checked periodically.

## Cleaning

You may use warm water, soap and non abrasive house cleaning products, to clean away the dirt. Don't forget to dry off the sheets.



## Product Types

Polylight UV : Top surface with UV protection  
 Polylight UV PLUS : Both surfaces with UV protection

## Product Range

Standart Translucent Colors : Clear, fume grey, yellow, blue, green, opal white  
 Opaque RAL colors are available upon request.  
 Thickness : From 0.8 mm to 1.5 mm  
 Length : Upto 13.00 m