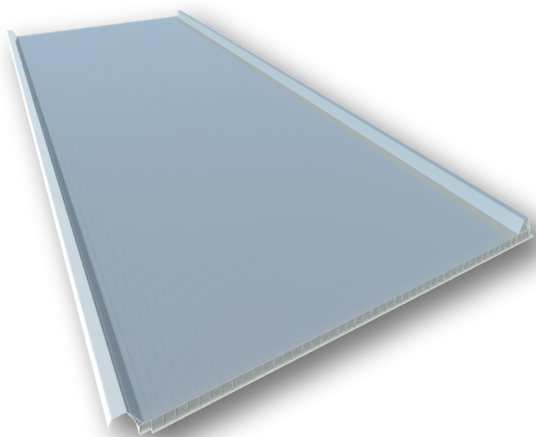


POLIMER
LIGHTING PANEL WITHOUT FLASHING


COMPOSITION
Honeycomb polycarbonate

THICKNESSES mm (in.)

30
(1.18)

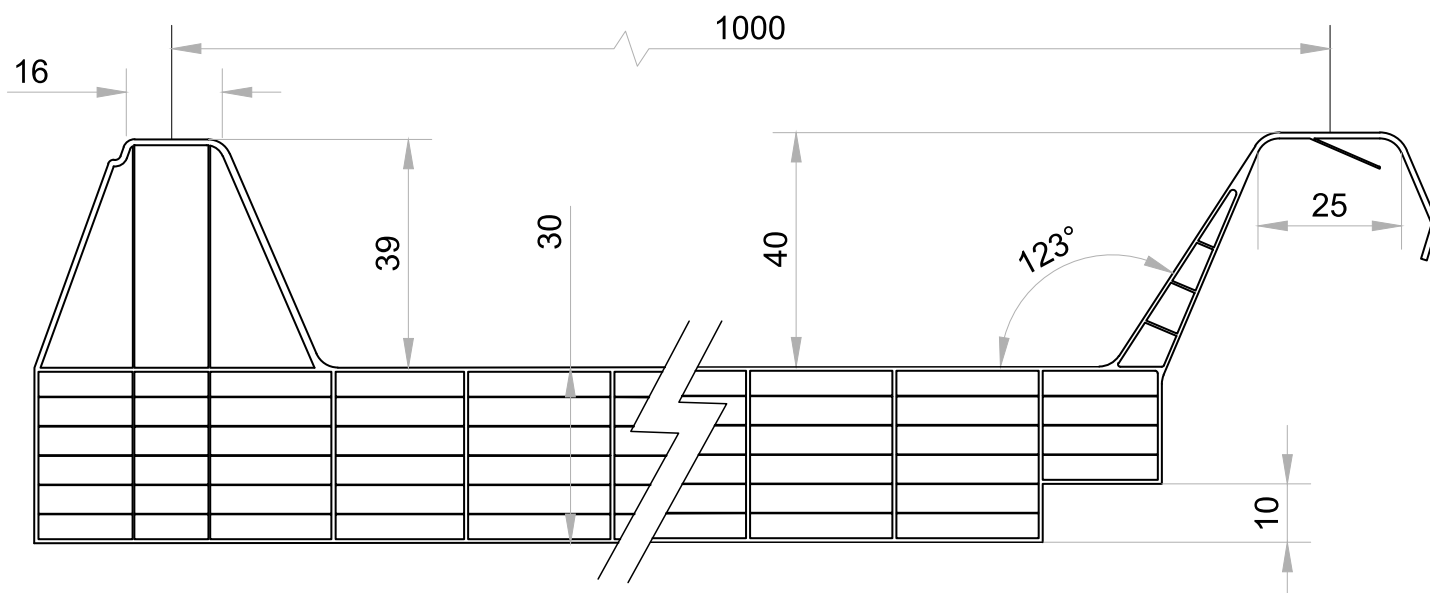
USEFUL WIDTH
1000 mm (39.37 in.)

USE
Roofs

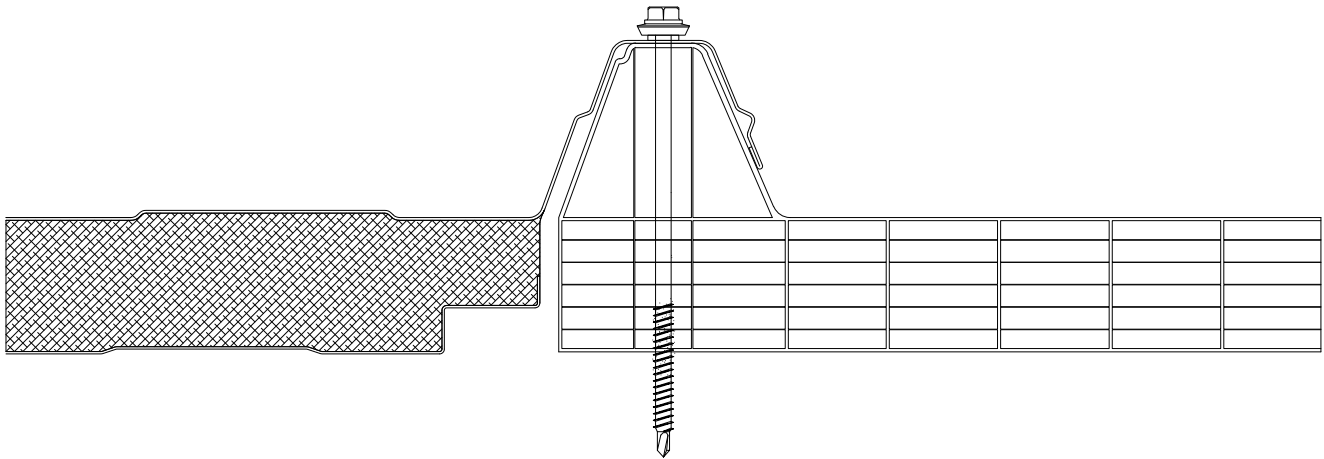

TECHNICAL SPECIFICATIONS
MAIN FEATURES POLIMER 30 ST

Characteristic	Value
Vertical cell pitch	24 mm
Horizontal walls	7
Useful sheet width	1000 mm (39.37 in.)
Heel	No
Standard length (l)	13,500 mm
Customized length (l)	customized (from 200m2)
Solar control (G-value)	Neutral: 60% - Opal: 54%
Light transfer	Neutral: 59% - Opal: 32%
Thermal insulation	1.28 w/m ² .K
Acoustic insulation	23 dB
Expansion	0.065 mm/m °C
UV protection	coextrusion exterior face
Fire classification	B-s1-d0 (UNE-EN: 13501-1:2007)
Temperature for ordinary use	-30 +120 °C

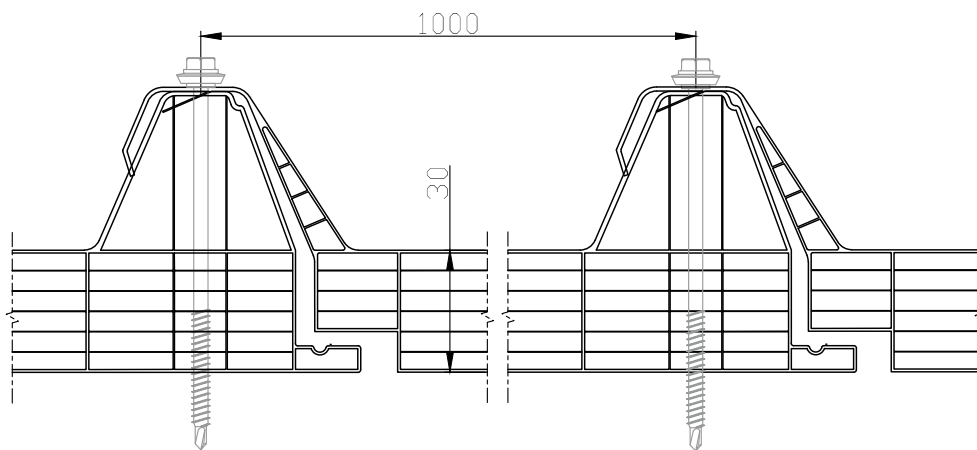
This is a honeycomb polycarbonate panel that has been created to cover lighting needs on roofs, and it has been combined with our Sandwich Panel without Flashings model. This panel is 30 mm thick and is formed by 7 walls of rectangular cells (air chambers), which provide the product with excellent thermal insulation. Due to its expansion characteristics, in order to secure the panels, pre-drilling needs to be made in the upper part of the flanges, with diameters of between 5 to 7 mm larger than the bolts used.


GEOMETRIC SPECIFICATIONS


CONSTRUCTION DETAILS

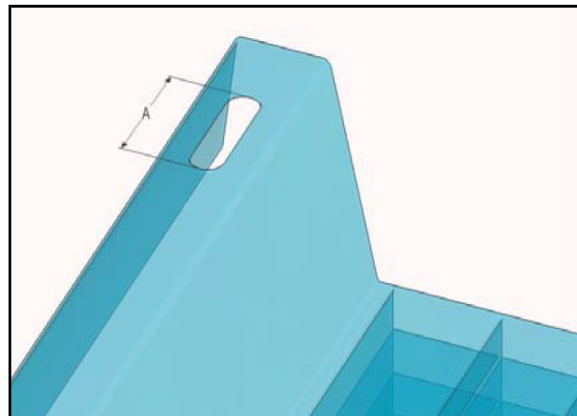


DETAIL PRESENTATION POLYCARBONATE- HIANSA ROOF PANEL 3GR/5GR ST



POLYCARBONATE DELIVERY DETAIL - CONTINUOUS ROOF - PANEL WITH HEEL

Table A	
Panel length	Oval length
mm	mm
≤ 2000	10
> 2000 ; ≤ 4000	14
> 4000 ; ≤ 6000	18
> 6000	18 + 2.6 mm/m



OVAL DRILL TYPE DETAIL IN POLYCARBONATE SHEET FOR ITS ASSEMBLY

LOAD TABLES

SHEET 30 mm - Table of loads (Kg/m²) - 2 openings or more

Span of the opening (m)	1.00	1.25	1.50	1.75	2.00	2.25	2.50
Pressure loads	394	290	225	182	152	129	112
Suction loads	252	199	166	139	124	110	100

SHEET 40 mm - Table of loads (Kg/m²) - 2 openings or more

Span of the opening (m)	1.00	1.25	1.50	1.75	2.00	2.25	2.50
Pressure loads	577	425	330	267	222	189	164
Suction loads	290	229	191	160	142	126	115

The tables have been obtained based on the experimental results determined by an external laboratory of the Structures Group of the Continuum Mechanics Department of the University of Seville.

Maximum load values, evenly distributed in Kg/m², with a limitation of the Serviceability Limit State for deformations of L/150 for pressure loads and load-to-break values of the system for suction loads.

The designer must verify the effective loads that will act on the system, as well as the safety coefficients that must be applied taking into account the characteristics of the place and the structure in which the polycarbonate panel will be placed.