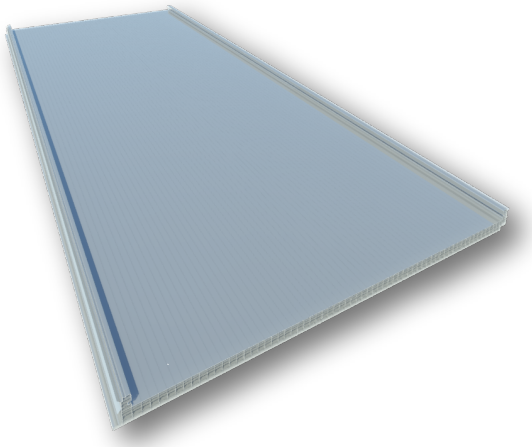
HIANSAPLUS

LIGHTING PANEL WITH FLASHING



COMPOSITION
Honeycomb polycarbonate

THICKNESSES mm (in.)
30/40
(1.18/1.57)

USEFUL WIDTH
1000 mm (39.37 in.)

USE
Roofs

ISO 9001 BUREAU VERITAS Certification

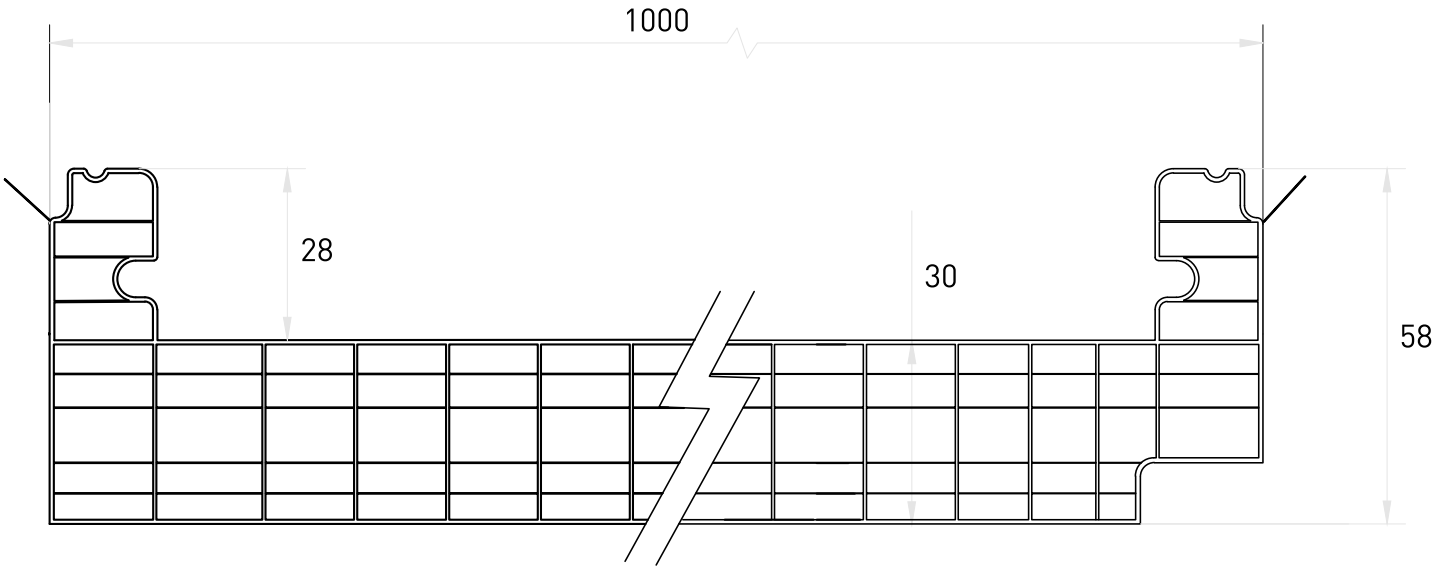
CE

TECHNICAL SPECIFICATIONS

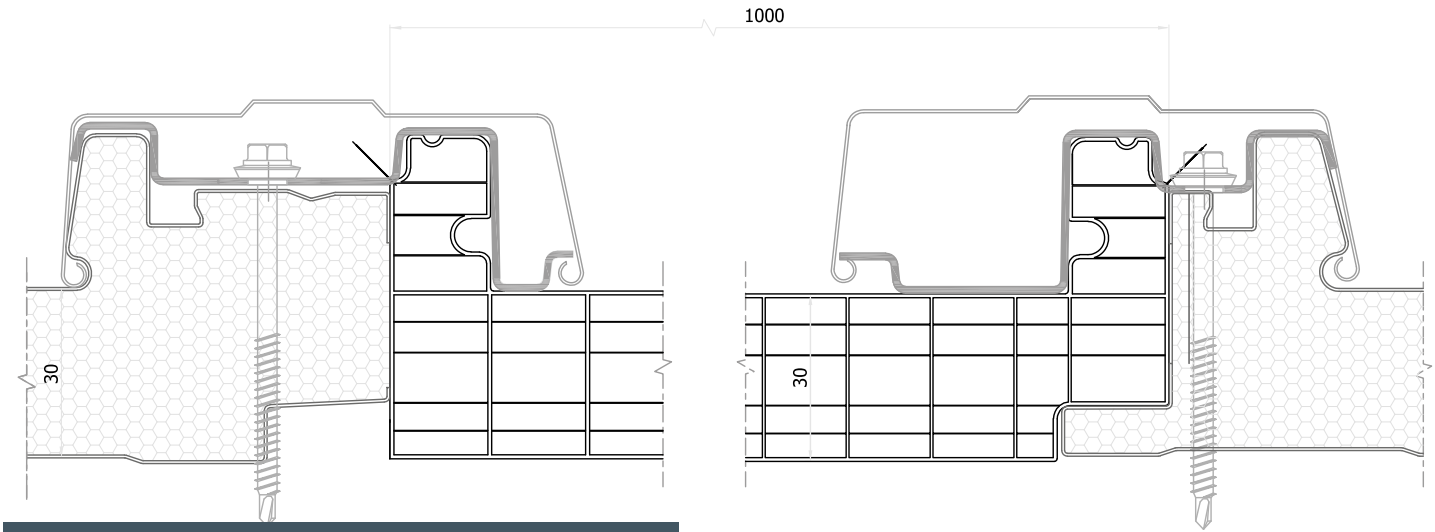
MAIN SPECIFICATIONS HIANSAPLUS 30 mm (1.18 in.)	
Characteristic	Value
Vertical cell pitch	15 mm (0.59 in.)
Horizontal walls	6
Useful sheet width	1000 mm (39.37 in.)
Heel	No
Standard length (l)	7500-10,000-12,000-13,500 mm
Customized length (l)	customized (from 150m2)
Solar control (G-value)	Neutral: 68% - Opal: 59%
Light transfer	Neutral: 67% - Opal: 39%
Thermal insulation	1.26 w/m2.K
Acoustic insulation	~ 21 - dB
Expansion	0.065 mm/m ºC
UV protection	coextrusion exterior face
Fire classification	B-s1-d0 (UNE-EN: 13501-1:2007)
Temperature for ordinary use	-30 +120 ºC

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 with Flashings model. This panel is 30 mm thick and is formed by 6 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, the system's own securing staples need to be used.

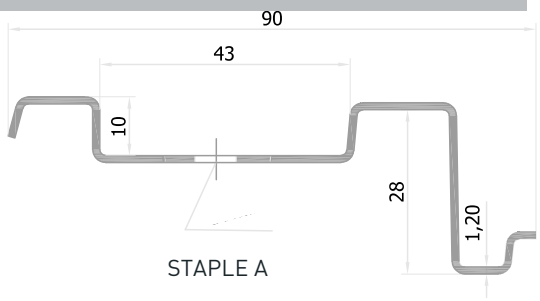
GEOMETRIC SPECIFICATIONS



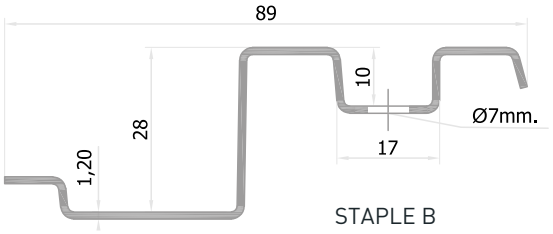
CONSTRUCTION DETAILS



DETAIL JOINING OF ROOF AND POLYCARBONATE PANELS



DETAIL OF STAPLE - TYPE "A" - HIANSA 2G/3GR PANEL



DETAIL OF STAPLE - TYPE "B" - HIANSA 2G/3GR PANEL

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	487	277	174	118	96	80	68
Suction loads	76	61	51	43	42	41	40

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	608	346	218	148	120	100	85
Suction loads	84	67	56	48	47	46	45

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.