



Looking towards the future

For 15 years, we have been innovating with efficient and sustainable products, offering a personalized service that has allowed us to stay at the forefront and make a difference. Now, we have created aluminium structure systems that allow the clamping of photovoltaic glasses to create spaces that facilitate self-consumption with renewable energy.

The e-Orbita range revolutionizes solar energy with versatile photovoltaic solutions that maximize self-consumption without compromising design or functionality. Its modular and high-efficiency systems enable intelligent and sustainable space integration.

Thank you for your trust, and here's to many more years together!

ADVANTAGES OF THE RANGE



Greater energy efficiency



More self-sufficient spaces



Save energy



30-year warranty



Ideal for HORECA, homes, and businesses



Use energy according to your needs





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SOLAR ROOF



e-Orbita LUZ is the new generation of solar ceiling with a technology that harnesses solar energy through the installation of a structure with solar glass, whether on the roofs of residential or commercial buildings, in homes, or in the HORECA sector.

Solar glass on the roof not only provides secure savings but also increases the property's value. Join the solar revolution and unlock the full potential of your roof. Illuminate your life, care for the planet, and build a greener future.

The sun is waiting for you, what are you waiting for?

e-Orbita LUZ solar roof on an aluminum structure in an outdoor residential property

It seamlessly integrates with the **Seeglass** and **Habitat** product range to create unique environments and become the best energy-efficient, intelligent, and sustainable solution.

The advanced technology with PERC cells captures and transforms energy into electricity, ensuring optimal performance and exceptional durability with a 30-year warranty.

With a maximum energy-capturing capacity of 450Wp per solar glass, e-Orbita LUZ becomes one of the top solutions in energy efficiency and sustainability in the sector, created by C3 Systems.



ADVANTAGES OF THE SYSTEM

 It integrates seamlessly with **Seeglass** and **Habitat**

 Innovative architecture thanks to its straight-line design

 Lighting with integrated home automation

 No need for sealing in the structure

TECHNICAL SPECIFICATIONS OF THE STRUCTURE

FIXED ROOF		
Standard lane width	1169 mm	
Standard projection	1 panel	2198 mm
	2 panels	4106 mm
	3 panels	6014 mm
Panel size	1904x1129 mm	
Slope	6° (10% ± 1%)	

DISTANCE BETWEEN PILLARS STANDARD BEAM
Without Seeglass enclosure
5000 mm.**

DISTANCE BETWEEN PILLARS REINFORCED BEAM
Without Seeglass enclosure
6000 mm.**

**Without snow load.

CONFIGURATIONS

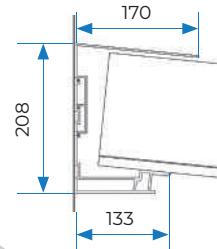
e-Orbita LUZ it's a versatile system that can be installed in more example configurations. The specific configuration may vary depending on the type of location and the available attachment points in the installation.

To see examples of e-Orbita LUZ power outputs, see pages 10-11.

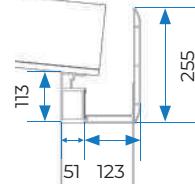


SECTIONS

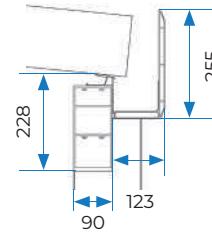
① RIDGE PROFILE



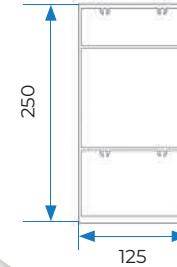
② GUTTER + STD BEAM



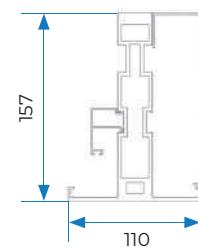
③ GUTTER + HEAVY BEAM



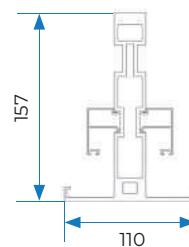
A2 BEAM PROFILE



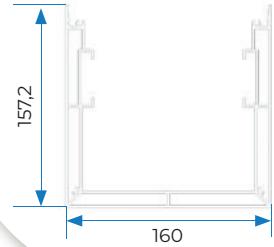
④ LATERAL GUIDE



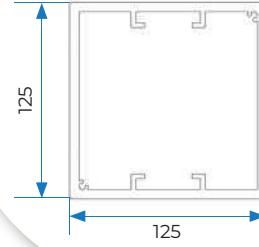
⑤ CENTRAL GUIDE



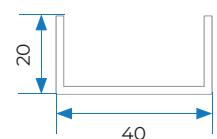
A1 RECORDABLE "U" PILLAR



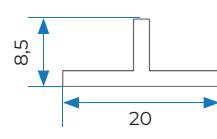
B1 CLOSED PILLAR PROFILE



⑥ U SHAPE PROFILE



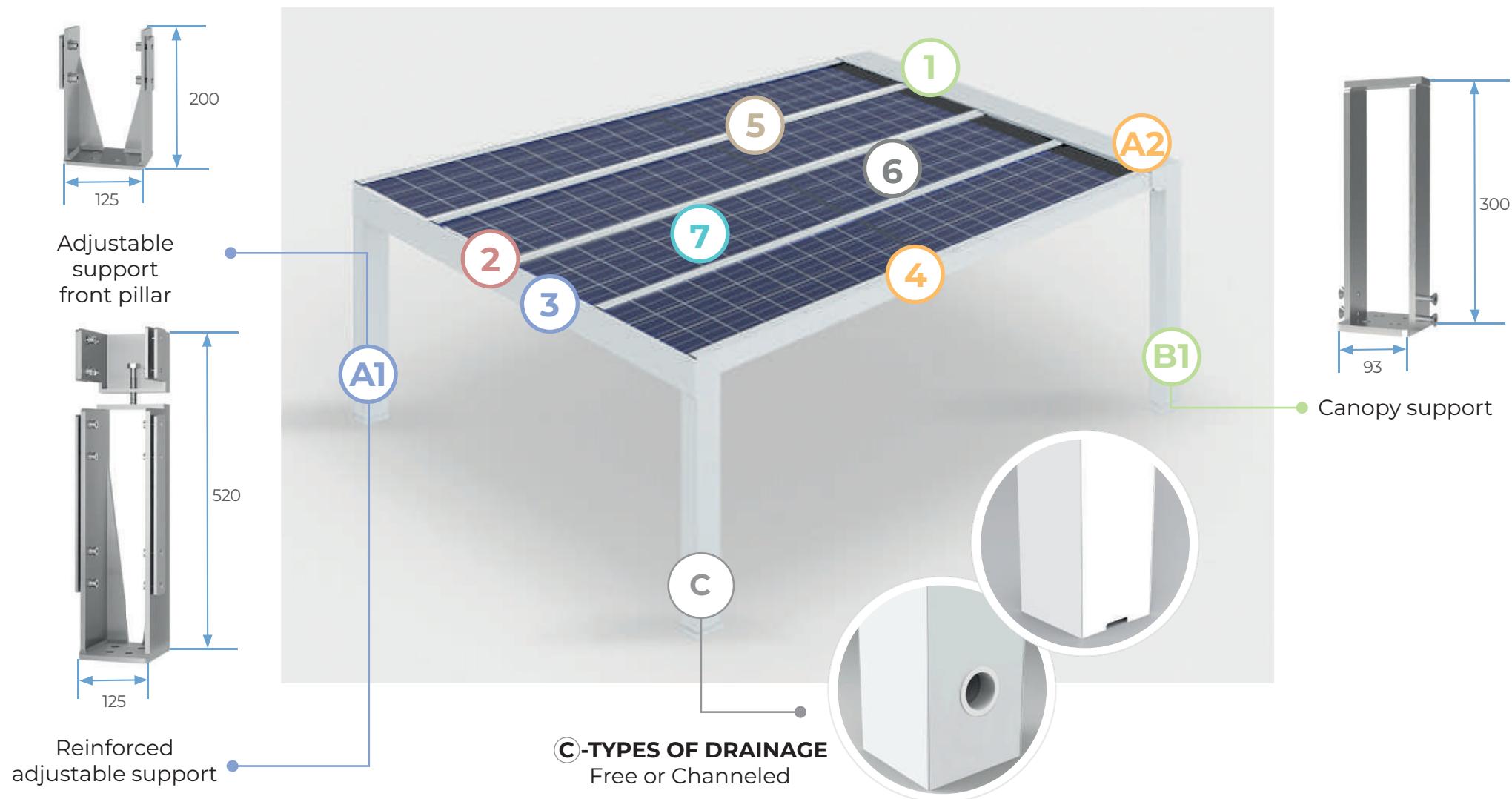
⑦ T SHAPE PROFILE



TRIMS UNDER THE PHOTOVOLTAIC GLASS

DRAINAGE AND SUPPORTS DETAILS

e-Orbita-luz features three types of supports: At the front, you can choose between the adjustable support or the reinforced adjustable support. At the rear, the canopy support is specifically designed for island configurations, without the need to anchor the system to a wall. These three supports offer flexibility in installation according to the needs of the project.



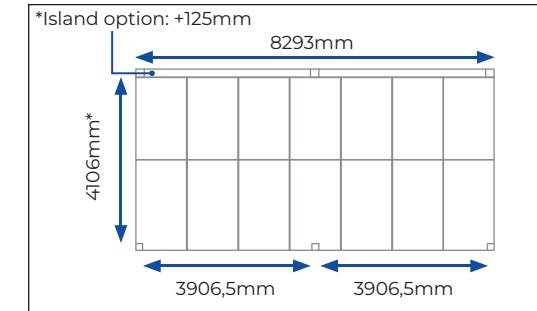
Possible configurations

CONFIGURATIONS

e-Orbita-luz features the innovative island configuration. The island option is supported by an independent structure on four pillars, making it ideal for gardens, terraces, and parking areas. It provides shade, protection, and clean energy without the need for anchoring to wall.

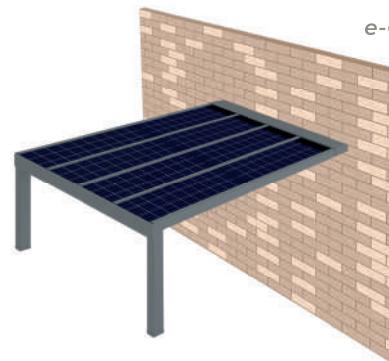


e-Orbita LUZ structure in island configuration

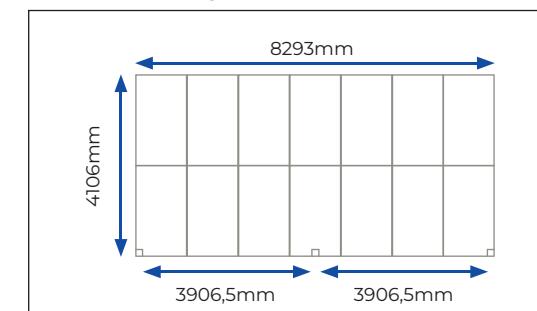


e-Orbita-luz also offers the wall-mounted configuration. This configuration is an efficient and elegant solution that attaches to a wall support, optimizing space and solar capture.

Perfect for terraces, porches, and facades, it provides shade, protection, and clean energy with a harmonious architectural integration.



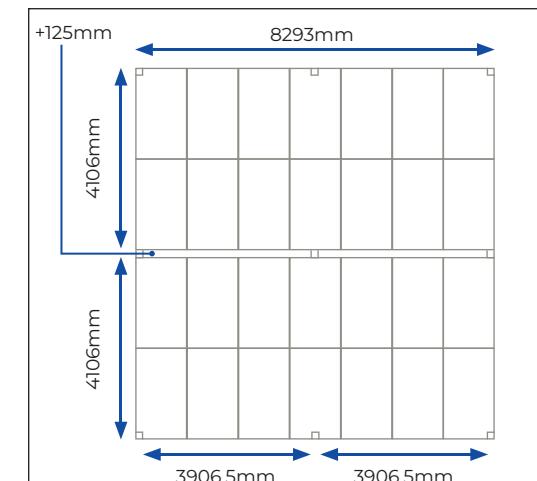
e-Orbita LUZ structure with wall configuration



Lastly, the dual-pitch configuration, with a classic and efficient design that maximizes solar capture with a larger exposure surface. Perfect for homes, terraces, and commercial buildings.



e-Orbita LUZ structure with gable roof



LIGHTING AND HOME AUTOMATION



e-Orbita LUZ solar roof offers the possibility, thanks to two leading home automation brands (**Teleco, Nice y Somfy**) to incorporate lighting systems and integrate them with the various installed smart sensors for intelligent space control. Create the ideal ambiance wherever you are. Experience a unique blend of comfort, cutting-edge technology, and well-being. C3 Systems' quality in a highly sustainable and efficient system.

The integration of lighting in the system includes:

- LED lights in beams and ridge profile

Furthermore, there are three color options:

- Warm white (3000K), neutral white (4000K)
- RGB

Create customizable scenarios by programming the ambient lighting.

All of this and more at the touch of a button.

Smart spaces for smart people.

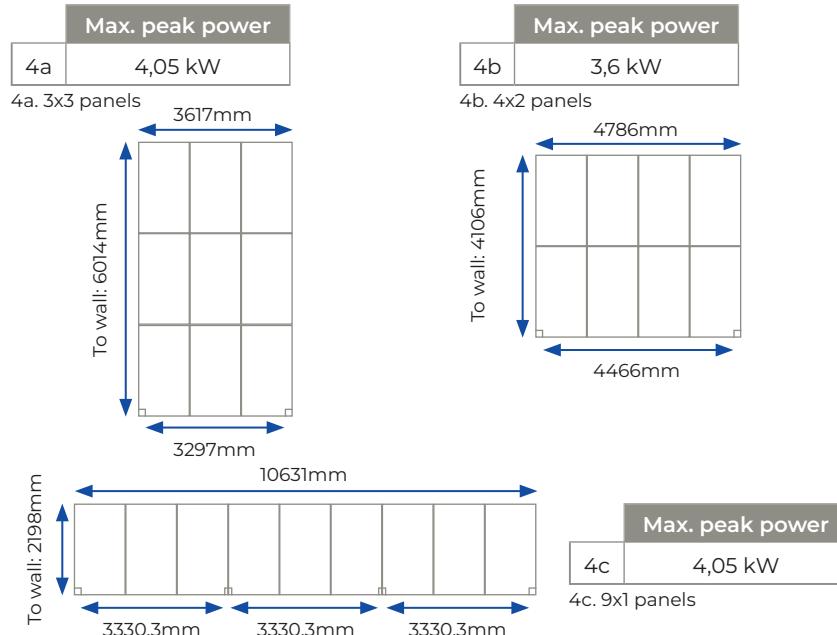
An innovative system designed with you in mind.



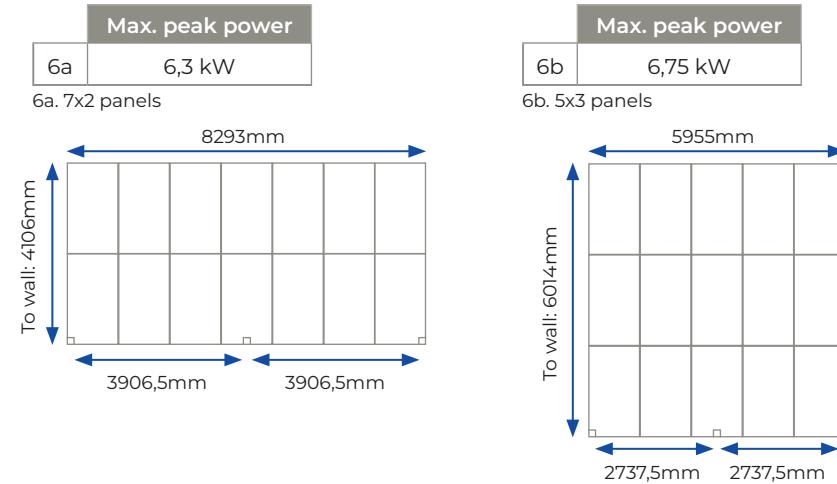
Example measurements

e-Orbita LUZ structure configurations to wall

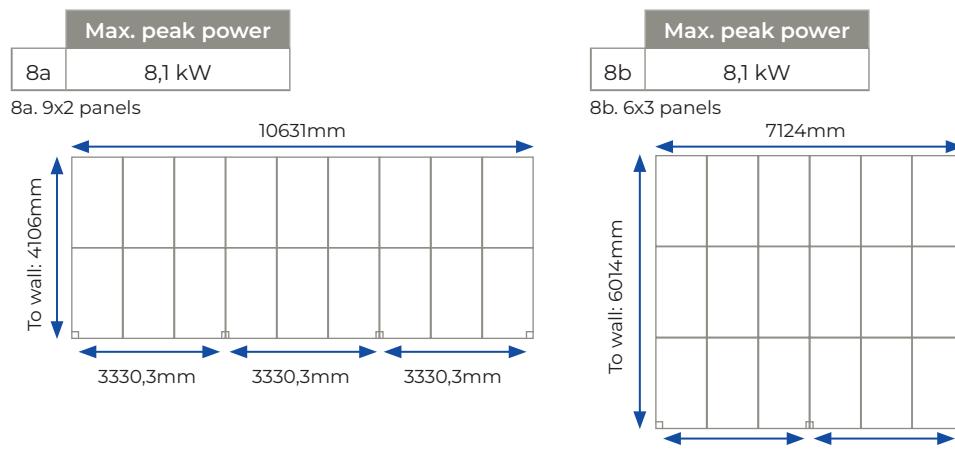
4KW



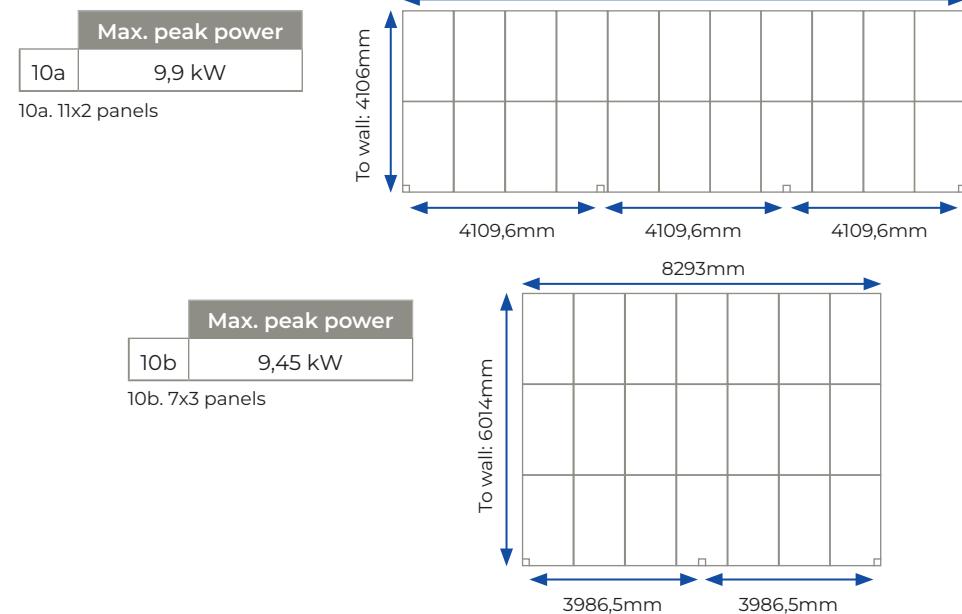
6KW



8KW



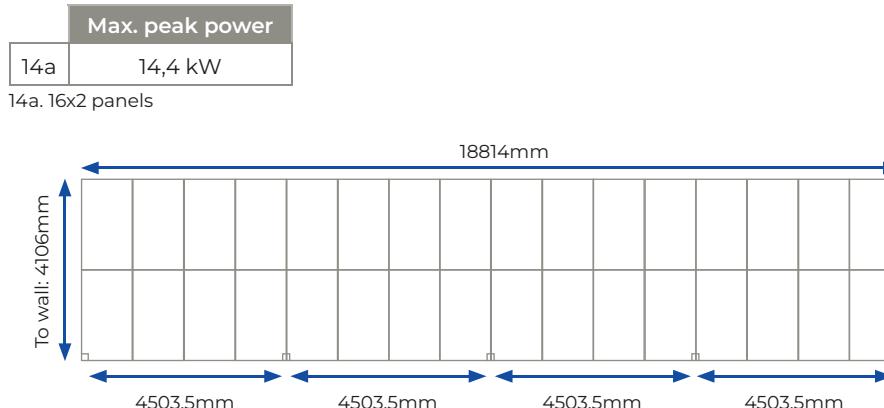
10KW



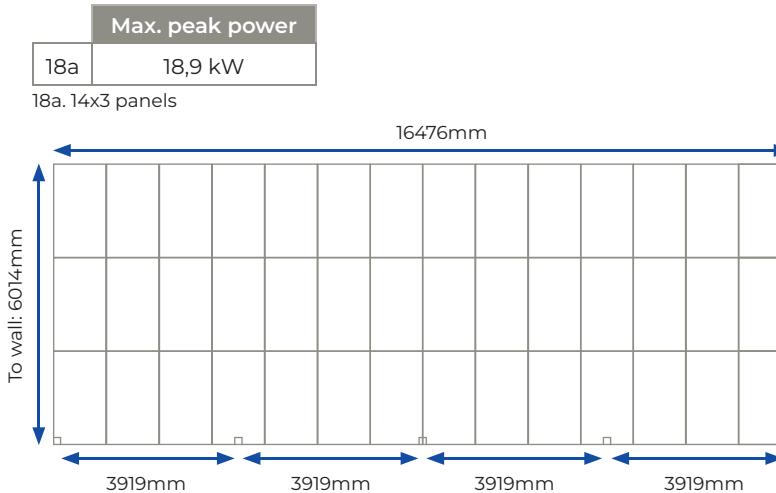
Example measurements

e-Orbita LUZ structure configurations to wall

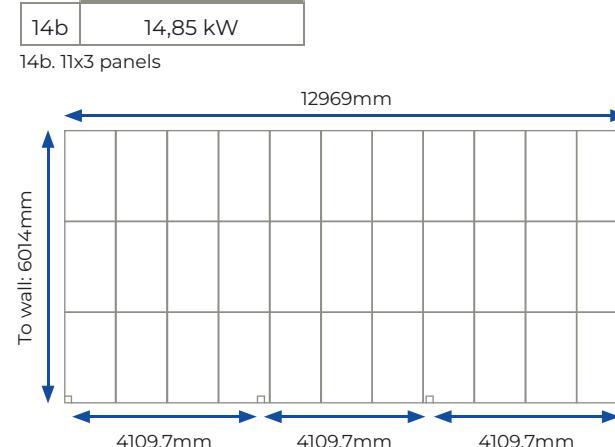
14KW



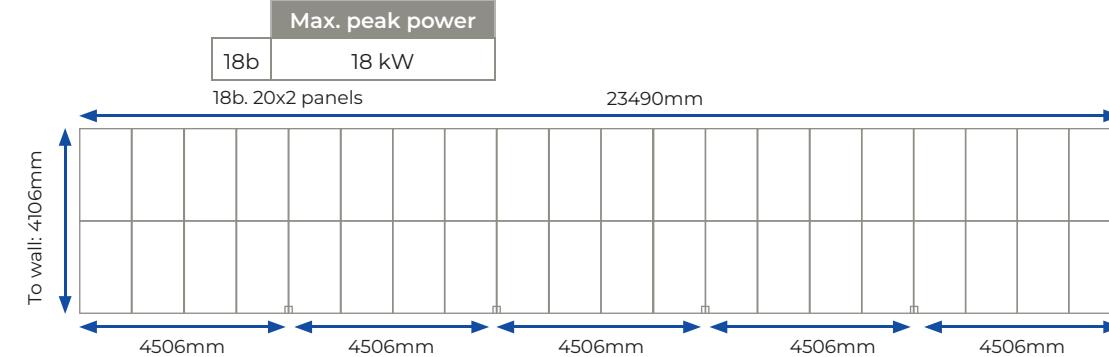
18KW



Max. peak power



Max. peak power





PHOTOVOLTAIC SOLAR CARPORT



Example of an e-Orbita CAR solar carport in Y configuration (inverted gable roof)

e-Orbita CAR is the new photovoltaic solar carport, where its impressive lines make it a robust and durable system.

It incorporates photovoltaic glass for energy capture, and its design has been specifically conceived for vehicle parking.

This innovative solar parking solution not only protects your car from weather conditions but also transforms sunlight into clean and renewable energy—ideal for efficiently and sustainably charging electric vehicles.

Example of an e-Orbita CAR solar carport for two cars: 15 glass panels, 7kW/hour



The structure has been designed to optimize solar energy capture, allowing a modular installation that adapts to any space, from private residences to large corporate parking lots.

e-Orbita CAR is perfect for those seeking a sustainable solution that combines aesthetics, functionality, and a commitment to the environment.

VENTAJAS PROPIAS DEL SISTEMA



STAINLESS STEEL COMPONENTS

The entire system is made of aluminium with **stainless steel supports and joints**, offering excellent resistance to adverse weather conditions.



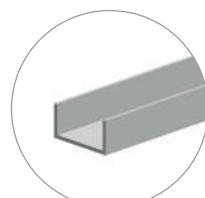
OUTPUT OF 3 PHOTOVOLTAIC GLASS PANELS

e-Orbita CAR allows the installation of three photovoltaic glass panels per unit, optimizing solar energy capture and maximizing system efficiency.



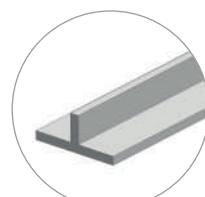
GLASS FIXATION WITH E-ORBITA CLAMP

The system incorporates e-Orbita CLAMP, an innovative fastening system designed to ensure secure, stable, and precise installation without drilling into the photovoltaic glass. It prevents water leaks throughout the structure.



HIDDEN WIRING WITH U PROFILE

The U-profile not only enhances the overall appearance but also protects cables from external factors, offering an aesthetic and functional solution.



GLASS CONNECTION WITH T PROFILE

The T-profile provides a robust, aesthetic, and efficient solution for durable structures.



STANDARD VERSION

Functional and durable solar carport, ideal for generating clean energy while protecting vehicles in any outdoor environment.



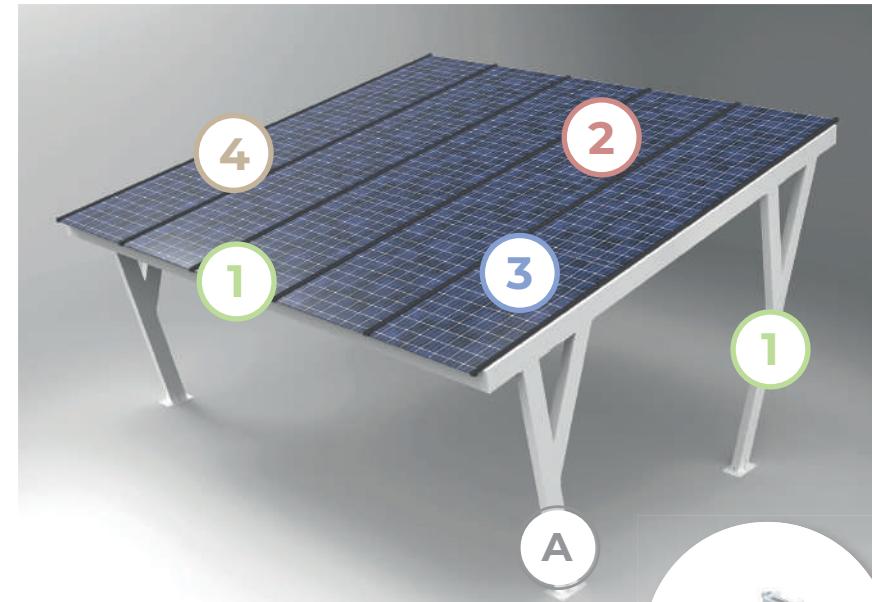
REINFORCED VERSION

Offer greater structural resistance and optimal performance, allowing it to withstand higher loads. **Complies with CTE⁽¹⁾**

⁽¹⁾Consult specifications.

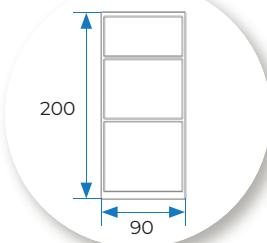
TECHNICAL SPECIFICATIONS OF THE STRUCTURE

FIXED ROOF		
System maximum width	Unlimited by successions	
System maximum height	Front height	Rear height
	2500 mm	3460 mm
System fixed projection	5638 mm	
Panel size	1904x1129 mm	
Slope	10°	

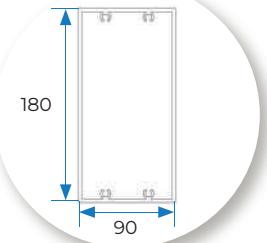


SECTIONS

① | PILLARS & BEAMS



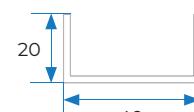
② | INTERMEDIATE BEAM



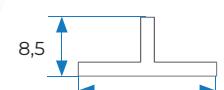
A - TYPE OF SUPPORT
- Floor support



③ | U-PROFILE

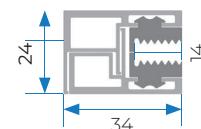


④ | T-PROFILE

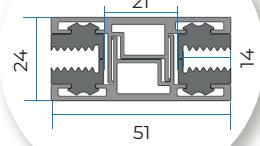


TRIMS UNDER PHOTOVOLTAIC GLASS

⑤ | SIMPLE CLAMP KIT



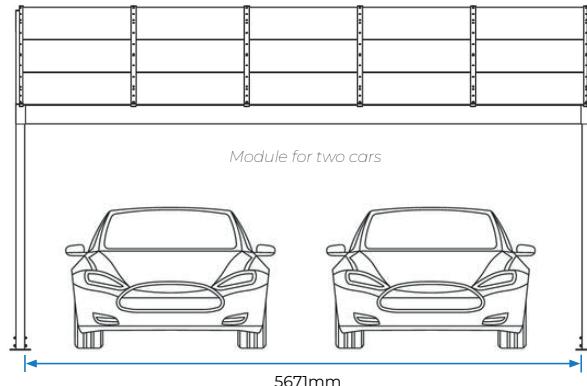
⑥ | DOUBLE CLAMP KIT



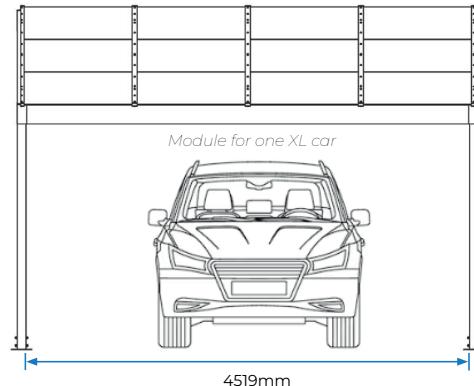
Possible configurations



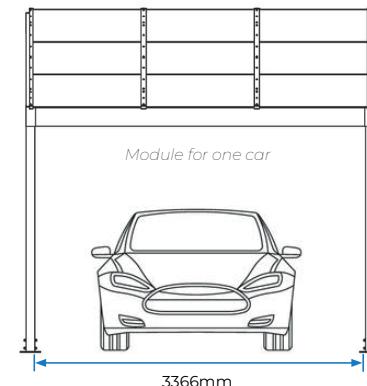
CONFIGURATION EXAMPLE



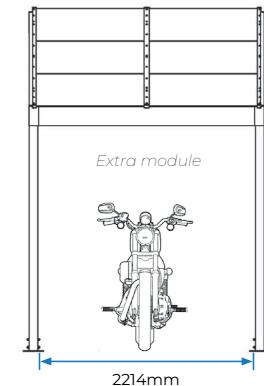
Max. peak power
6,75 kW



Max. peak power
5,4 kW



Max. peak power
4,05 kW



Max. peak power
2,7 kW

SPECIAL CONFIGURATIONS

e-Orbita CAR is a versatile system that adapts to different needs and environments. In addition to the 1-module configuration, it is available in 2 other configurations:



SUCCESSIVE CONFIGURATION
Several modules layout that optimizes space in large parking areas. Successions with a maximum of 5 lanes between pillars can be realised.



Y CONFIGURATION
Innovative design that allows for greater solar light capture thanks to its gable roof inverted disposition, ideal for large parking surfaces.



LIGHTWEIGHT PHOTOVOLTAIC STRUCTURE

e-Orbita COVER is an innovative, lightweight, and versatile photovoltaic structure designed to provide an efficient solution for self-consumption energy projects. It covers spaces to protect against weather conditions while allowing light to pass through, simultaneously capturing solar energy.

Made from high-quality materials, this structure stands out for its lightweight nature, making it the ideal choice for those seeking a modular system with an easy and quick installation while maintaining high performance.



e-Orbita COVER, is not only resistant and aesthetically appealing but also adapts to various surfaces, making it perfect for both residential and commercial projects.

Thanks to its low maintenance and long lifespan, it is the ideal solution for those looking to maximize solar energy utilization without compromising functionality or design.





STANDARD VERSION

e-Orbita COVER, in its standard version, is a lightweight photovoltaic structure, perfect for generating energy and providing shade in outdoor spaces.

REINFORCED VERSION

Intermediate beams and reinforcement crossbars provide greater stability and resistance. Complies with CTE⁽¹⁾

⁽¹⁾Consult specifications.

SYSTEM OPTIONS



REINFORCEMENT CROSSBEAM OPTION

The reinforcement crossbeam option for e-Orbita COVER is designed to enhance the structural strength of the system, increasing its safety and extending its lifespan.



WALL-MOUNTED OPTION

The system allows for wall installation, optimizing space and ensuring secure and aesthetic structural integration without the need for anchoring to floor.



WIRE OPTION

e-Orbita COVER also has a stainless steel wire option. It is an alternative to the reinforced option, providing the structure with stability and resistance.



SYSTEM ADVANTAGES



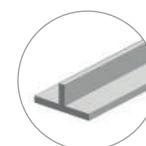
SUCCESSIVE MODULES

Maximizes space usage with an orderly and functional design, making it ideal for large surfaces



GLASS FIXATION WITH E-ORBITA CLAMP

e-Orbita CLAMP ensures secure installation and robust fixation of photovoltaic glass panels. It prevents water leaks throughout the structure.



GLASS CONNECTION WITH T PROFILE

The T-profile provides a robust, aesthetic, and efficient solution for durable structures.

APPLICATIONS



PUBLIC SPACES AND PARKS

This type of system is ideal for parks and plazas, providing shade and sun protection in rest areas, benches, or green spaces.



SPORTS AND RECREATIONAL AREAS

In sports facilities, schools, or leisure spaces, this type of canopy is an excellent solution for powering the lighting of the venue.



PORCHES AND GARDENS

This system can be installed in residential porches and gardens, offering an elegant and functional aesthetic while contributing to energy efficiency.



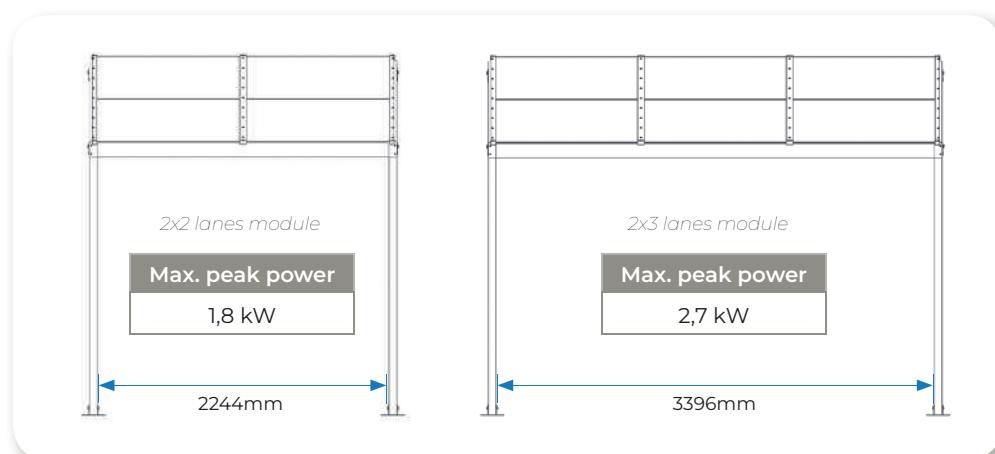
TERRACES AND PENTHOUSES

This system also adapts to installation on terraces or penthouses of buildings, optimizing space usage for energy generation without affecting architectural aesthetics.

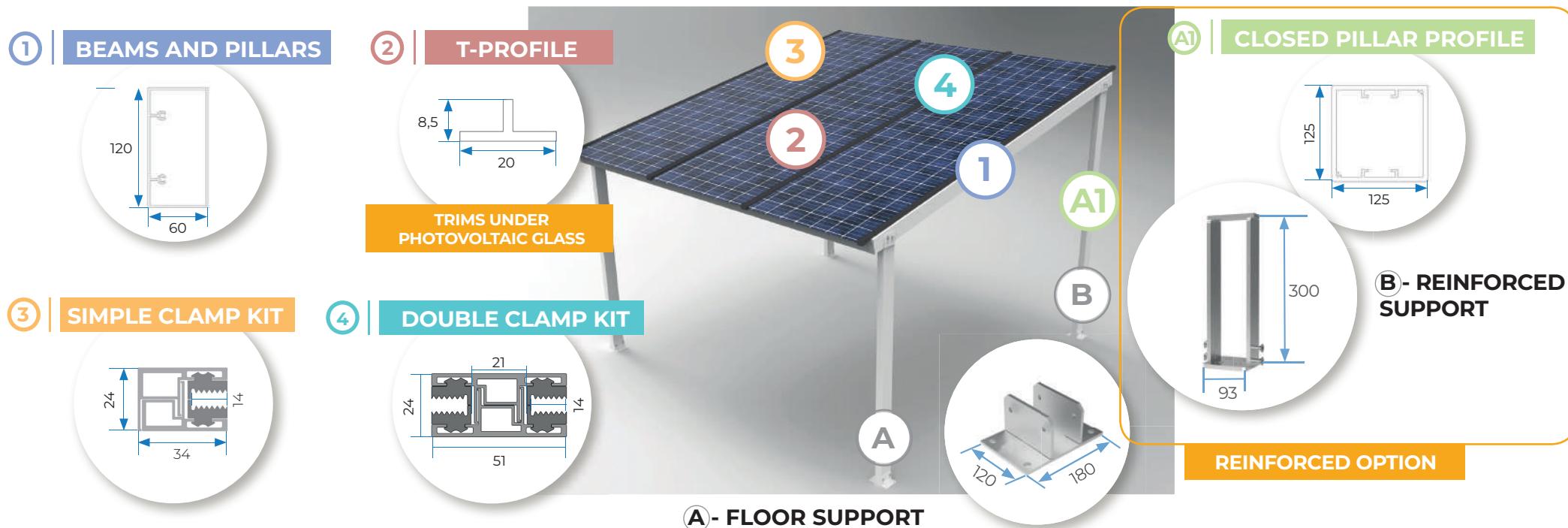


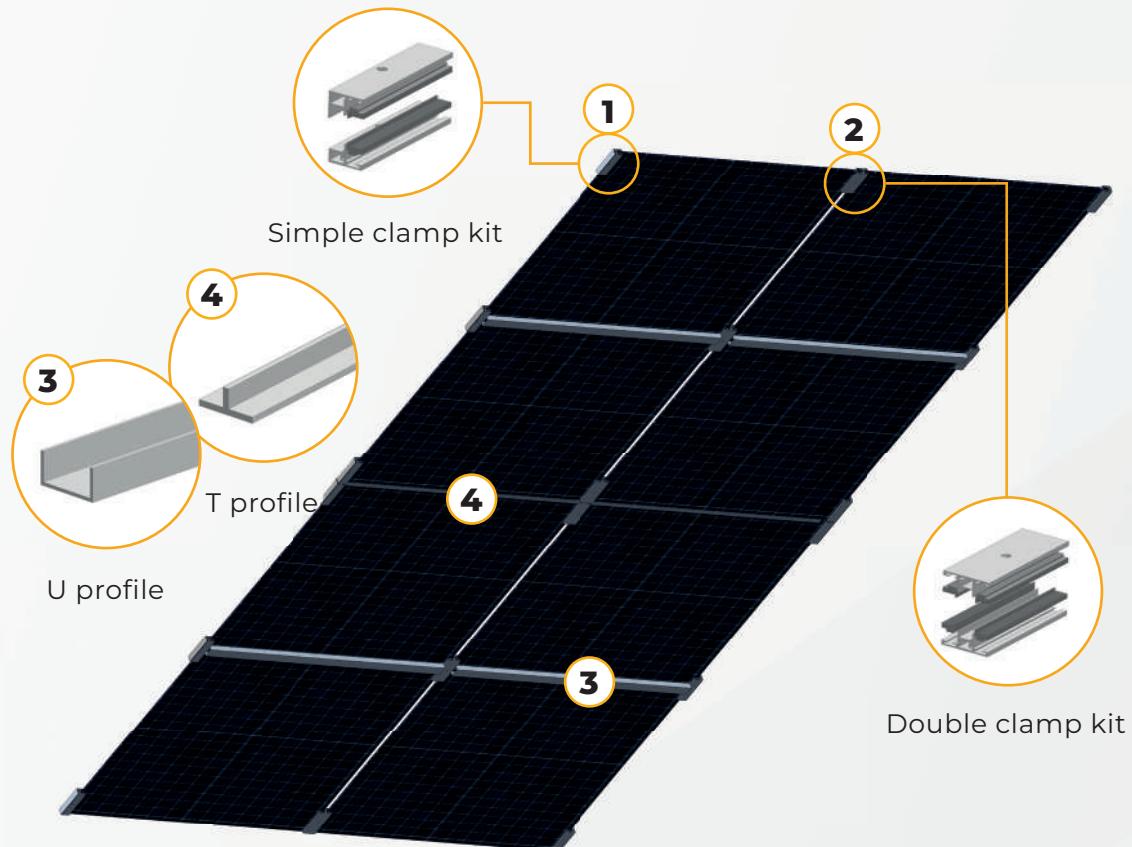
TECHNICAL SPECIFICATIONS OF THE STRUCTURE

FIXED ROOF			
Maximum width	Unlimited by successions		
System fixed projection	5°	10°	20°
1 photovoltaic glass	1896 mm	1875 mm	1789 mm
2 photovoltaic glasses	3797 mm	3754 mm	3582 mm
3 photovoltaic glasses	5703 mm	5638 mm	5380 mm
Panel size	1904x1129 mm		
Slope	Adjustable (recommended from 5°-20°)		



SECTIONS





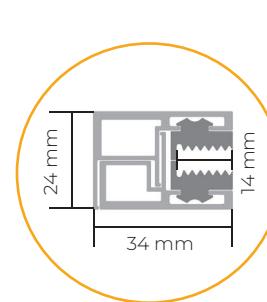
Ex. representation of the clamping of 4 glasses
Suitable for all types of structures

CLAMPING SYSTEM

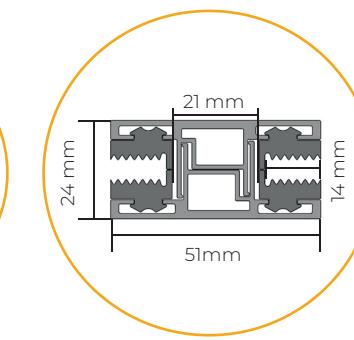
e-Orbita CLAMP designed to offer a safe, efficient, and elegant solution for the integration of solar energy in homes and businesses. It is a **patented system** with an innovative design made of high quality materials. Our clamps ensure a firm and secure hold on photovoltaic glass, which prevents water infiltration throughout the structure, providing peace of mind and confidence to our customers.

Available in both single kits and 6,300mm long assemblies.

SECTIONS



Simple clamp kit



Double clamp kit



FINISHES



Raw



RAL 5004 Mat

ALUMINIUM ALLOYS

Standard UNE EN 12020-1 - Extruded aluminium alloy 6063 and heat treatment T6 - Complies with Standard UNE-EN 573-3 - Standard UNE-EN 755-2.

STRAIGHT LIP WEATHERSTRIP - EPDM

EPDM rubber is abrasion and wear resistant.

For frameless photovoltaic modules

Suitable for lateral and central assembly



PHOTOVOLTAIC GLASS

The bifacial flame retardant photovoltaic glass e-Orbita GLASS, is an advanced solution that combines energy efficiency and safety in a single application. This advanced glass not only captures solar energy efficiently from both sides, but also has flame-retardant properties that make it ideal for applications in demanding environments.

With C3 Systems' fire-retardant bifacial photovoltaic glass, you can enjoy maximum efficiency, safety, and elegance in every photovoltaic installation.

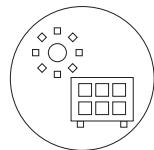
TECHNICAL SPECIFICATIONS OF SOLAR GLASS



30 years warranty



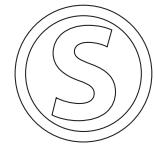
Higher energy generation



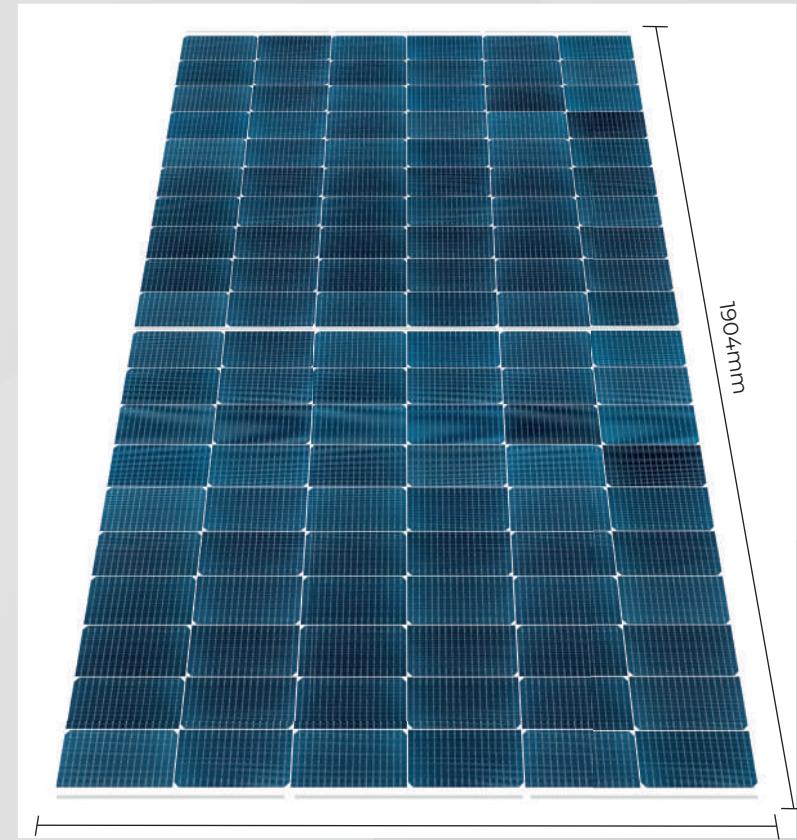
Bifacial solar panels



PERC cell technology
with the highest efficiency



High power output (450Wp)



Class A - Against fire (Fireproof)



e-Orbita GLASS technical sheet

e-Orbita is available in all finishes from the RAL range, textured, and matte. Visit our website to explore our extensive range of finishes.



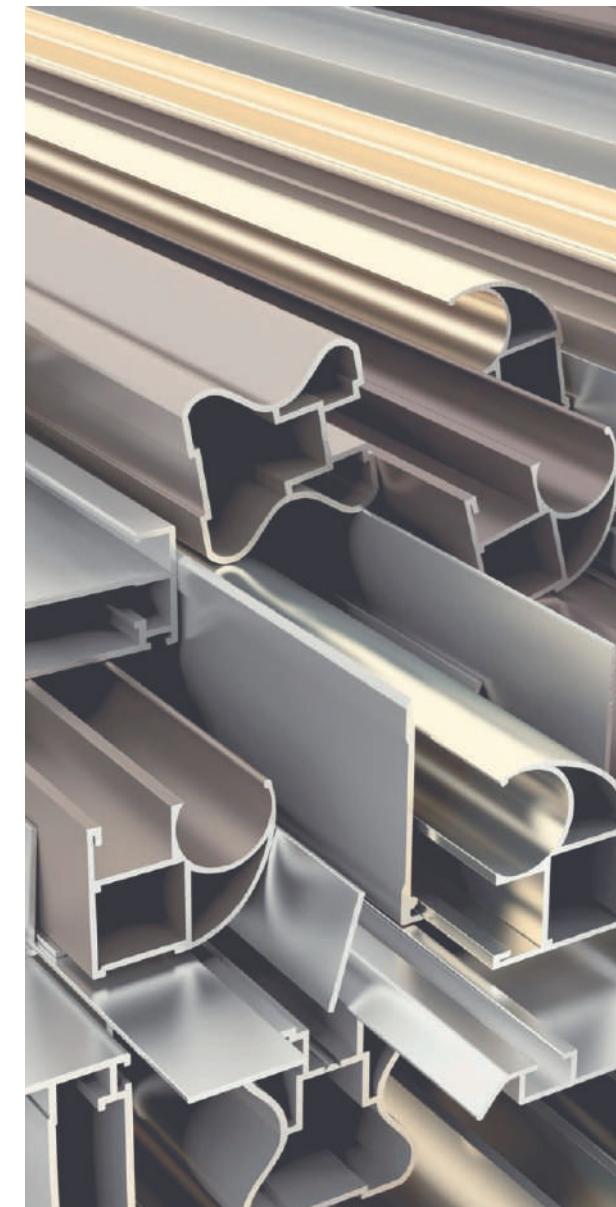
The aluminum profiles used in the manufacturing of these items comply with:

ALLOYS

They are extruded in compliance with Standard UNE EN 12020-1. They correspond to extruded aluminum alloy 6063 with T5 heat treatment. They meet the composition requirements as specified in Standard UNE-EN 573-3. They also meet the dimensional tolerances as specified in Standard UNE-EN 755-2.

SURFACE FINISHING – PAINTING

The painted profiles are treated in facilities authorized for the use of the QUALICOAT Quality Mark for PAINTING, COATING, and POWDER COATING OF ALUMINUM FOR ARCHITECTURE, in compliance with the specifications of the QUALICOAT Quality Mark Guidelines.



Why should we use aluminum for the windows of the future?

FOR ITS ENVIRONMENTAL ADVANTAGE

It is the only material for glass systems that is 100% recyclable and can be used again and again.

It is the only material that is 100% sustainable and effectively recyclable.

The mineral from which it is made is available in virtually unlimited quantities

It is the only material that supports a 100% recycling economy.

Certifications

HIGHEST RATING IN TESTS* E-ORBITA RANGE



Wind resistance
UNE EN 1932:2014

Class 6 - 101 km/h



Water tightness
UNE EN 14963:2007

Class 1A - 210 l/m²hour



Snow resistance
UNE EN 12833
e-Orbita LUZ: 160 kg/m²
e-Orbita CAR: 180 kg/m²
e-Orbita COVER: 150 kg/m²

*Highest rating in tests with large dimensions

APPROVALS



Quality assurance and safety warranty for products from manufacturers in the metal industry, including those for metal structures.



CE Rated

All our systems are certified by an official laboratory and comply with the requirements of the European Commission to bear the CE Mark. We have all the tests and certificates that meet this regulation, and we have a computer tool that makes it easier for the workshop to obtain this label.



30-year warranty*

e-Orbita GLASS has a 30-year warranty on power generation and a 15-year warranty on components.

*(Refer to the sales conditions).

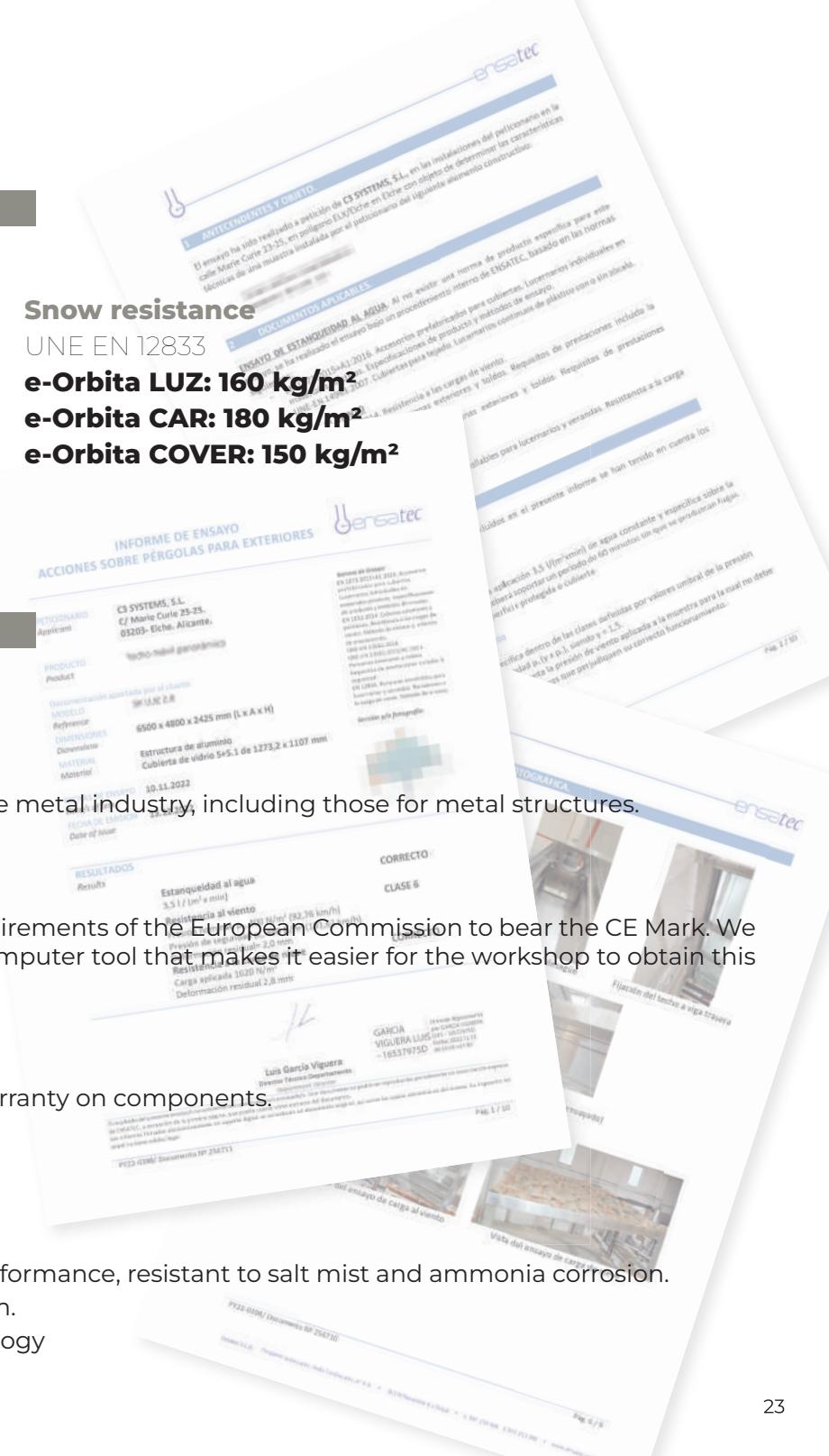


Photovoltaic frameless solar glass

Compliance with new international standards 180/IEC. Excellent low-light performance, resistant to salt mist and ammonia corrosion.

Certified by the international quality and environmental management system.

Application Class: A | Electrical Safety Class: II | Fire Class: A| PERC cell technology





CATÁLOGO



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The open view company

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