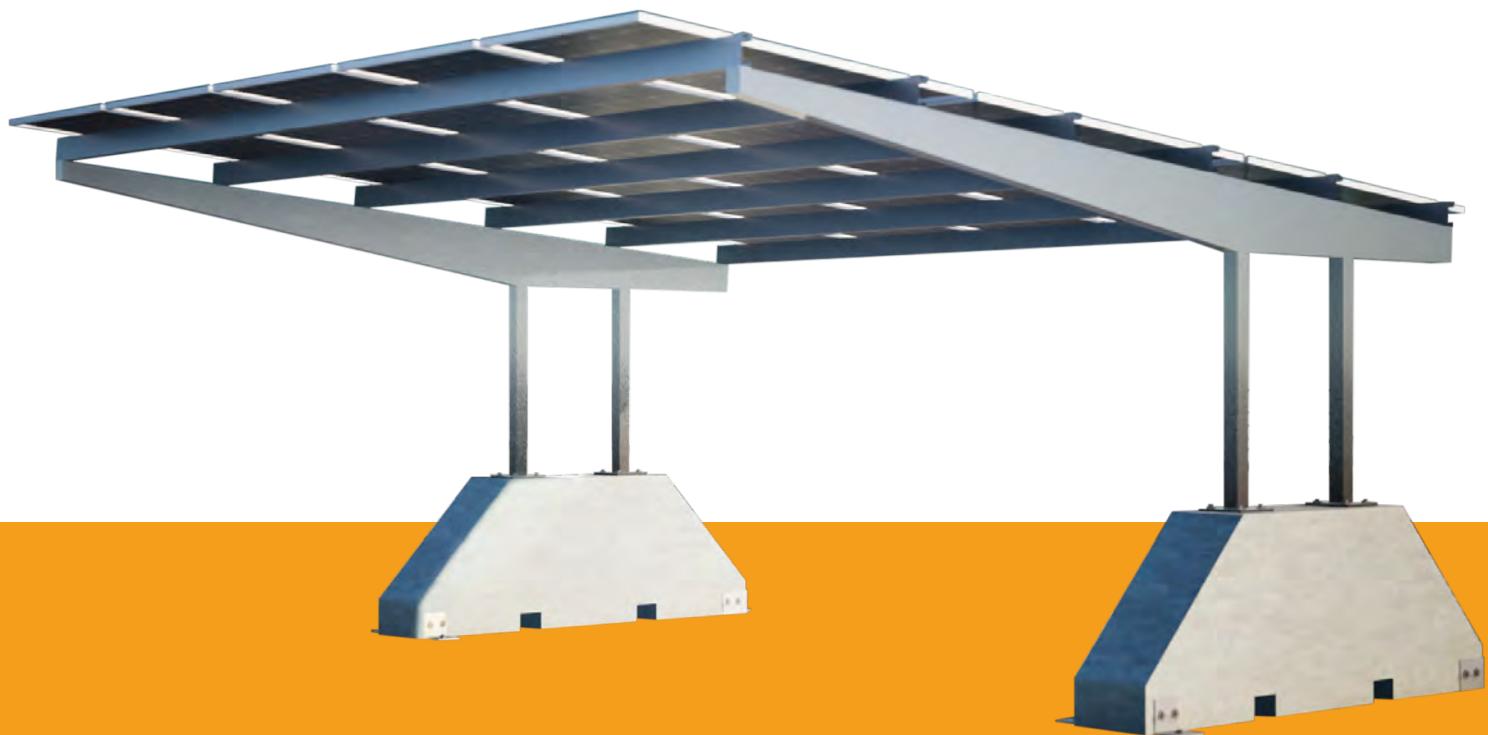


sunpark®

solar parking system

WWW.SUNPARK.ES



Solar Parking Model

Carport

Sunpark-M3



1UNE-EN 1090-2

EUROCODE
EN-1991

C.T.E
SPANISH
BUILDING CODE



Certificate of origin
30% of the energy used in the
manufacturing of our structures
is of renewable origin.



What we offer

Our Sunpark® photovoltaic canopies are metal structures made of high-quality steel, designed for the installation of solar modules in car parks. With a modern, robust and aesthetically integrated design, we take advantage of each parking space to generate clean energy while providing shade and protection for vehicles.

Thanks to their versatility and modularity, our canopies can be adapted to any environment —residential, commercial or industrial—and to all types of parking configurations. In addition, they can be customised in terms of colour, finishes and optional accessories, structurally integrating chargers for electric vehicles and lighting or signage solutions according to the needs of each project.

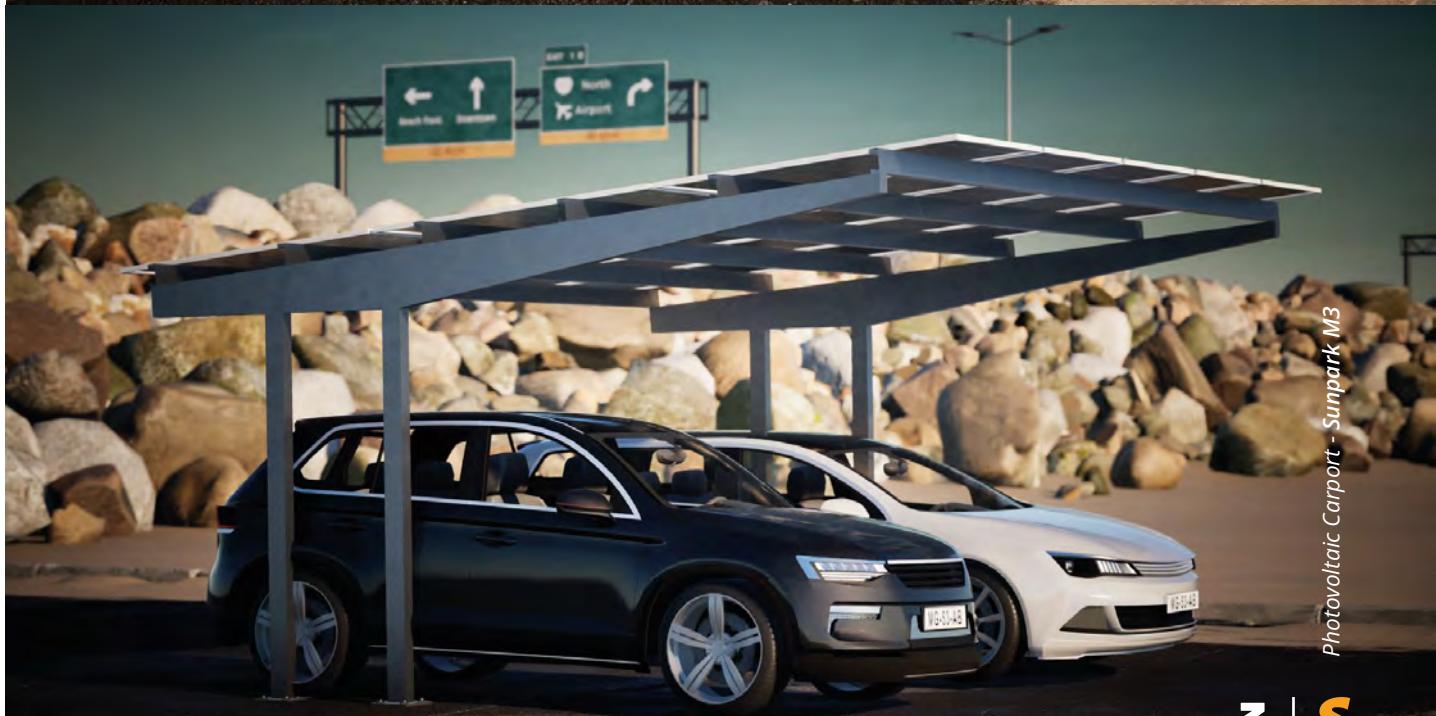
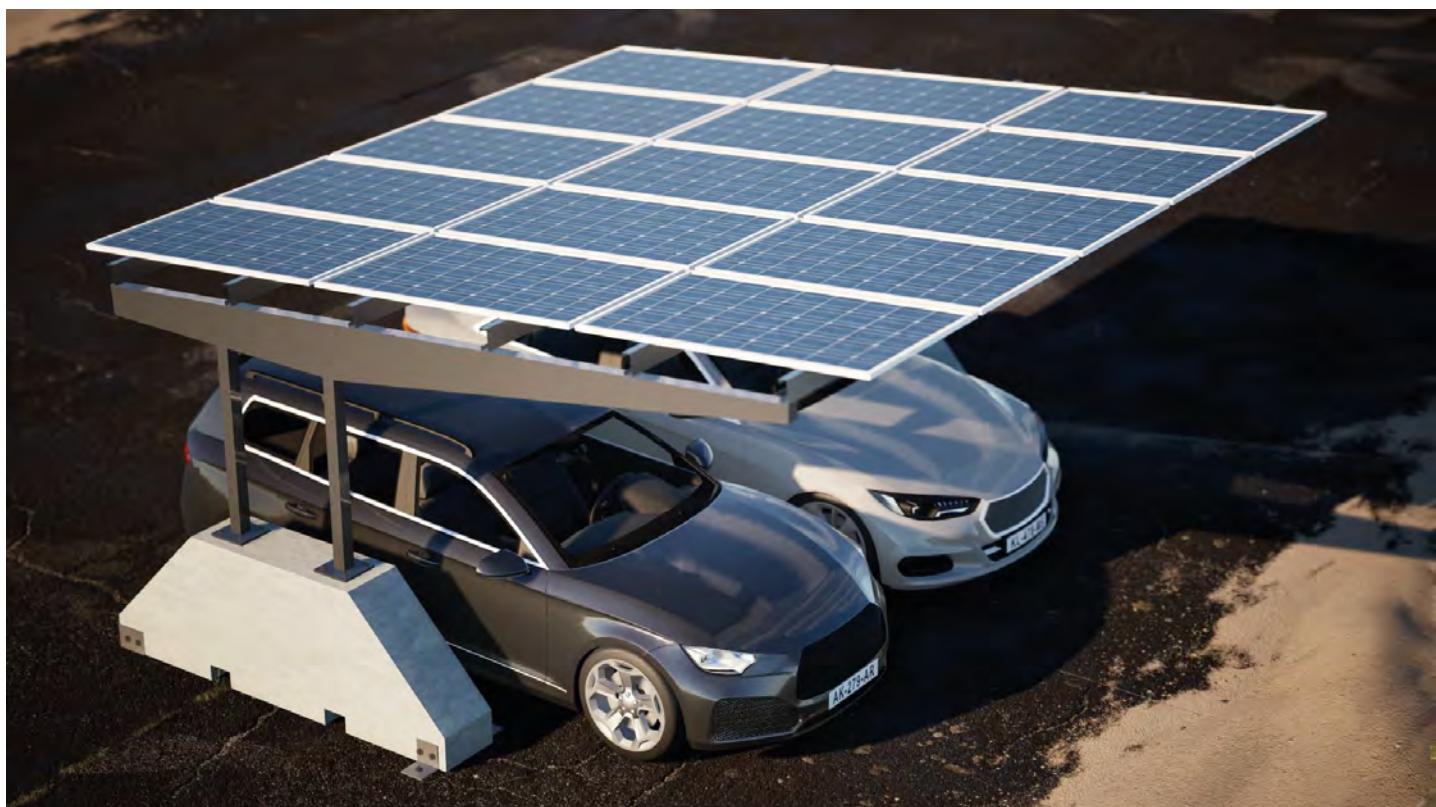
Manufactured in Spain and certified with the CE mark, our structures comply with the Technical Building Code (CTE) throughout Spain and the Eurocode in the European Union, guaranteeing maximum structural safety against wind and snow loads.

At Sunpark®, we design solar canopies that combine energy efficiency, sustainability and design, adding aesthetic and functional value to every space while promoting photovoltaic self-consumption.



Turn your car park into a source of energy.

Sustainability | Self-consumption | Savings | Circular Economy





**Sunpark® is a company belonging to the
Europa Prefabri Group.**



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Suitable for commercial spaces



Commercial



Residential



Industrial

Insulated footing

According to soil resistance in accordance with CTE and Eurocode

With foundation



Insulated footing

According to soil resistance in accordance with CTE and Eurocode

With ballast





Description

The Sunpark® 3 is a high-strength metal photovoltaic canopy designed to turn car parks into generators of clean solar energy. Made of galvanised or lacquered steel, it combines robustness, modern design and energy efficiency, providing shade and protection for vehicles while producing electricity for self-consumption or electric charging. It complies with the Technical Building Code (CTE) and Eurocode, and adapts to any environment — residential, industrial or commercial — thanks to its modular and customisable design.

The Sunpark® 3 model is available in four variants:

SP3-Exogenus 1800 kg: 1800 kg reinforced ballast base with high stability, compatible with different ground fixing options.

Floor slab: Thickness ≥ 15 cm. Fixing with chemical anchors.

Natural ground: Suitable for any type of ground with a minimum resistance of 1.5 kg/cm^2 , fixed using foundation screws.

SP3-Exogenus 1250 kg: Reinforced ballast base weighing 1250 kg with high stability, compatible with different ground fixing options.

Floor slab: Thickness ≥ 15 cm. Fastened using chemical anchors.

Natural ground: Suitable for ground with a minimum resistance of 1.5 kg/cm^2 , fixed using foundation screws.

SP3-without foundation: Lightweight version designed for direct fixing to the ground using foundation screws. Requires natural ground with a resistance greater than 1.5 kg/cm^2 and does not require any type of ballast.

SP3 - Traditional foundation footings: Installation using isolated or continuous reinforced footings, dimensioned according to calculation report and ground characteristics.

Compatible with any type of photovoltaic panel and electric vehicle charging points, Sunpark® 3 carports are a sustainable, versatile solution manufactured entirely in Spain.

Colour



Any RAL or PANTONE colour

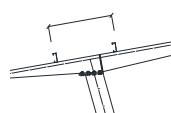
Additional protection through the thermo-lacquer process, which gives the parts a durable, high-quality finish in a range of colours.
Option of thermo-lacquer in a choice of RAL colours.



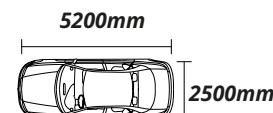
NO CONSTRUCTION WORK, no need for foundation footings.



Technical Specifications



Standard distance between purlins
(6 straps) - 930 mm (maximum 1003 mm)
(5 straps) - 1160 mm (maximum 1026 mm)



Dimensions of standard parking place



15 KG/M2.
*Without canopy

*Maximum weight load of solar panels.



Compatible with all types of solar panels.



Up to
66 KG/M2



Up to
104 KM/H
Terrain IV,
CTE DB SE AE
ZONE C

- Maximum load Spanish CTE Building Code & Eurocodes**

Standard model
 These are limit values and depend on the geographical location (optimisation of materials and costs).

- Engineering service to improve loads, adaptations or designs.**



Structural integration of any EV charger model.

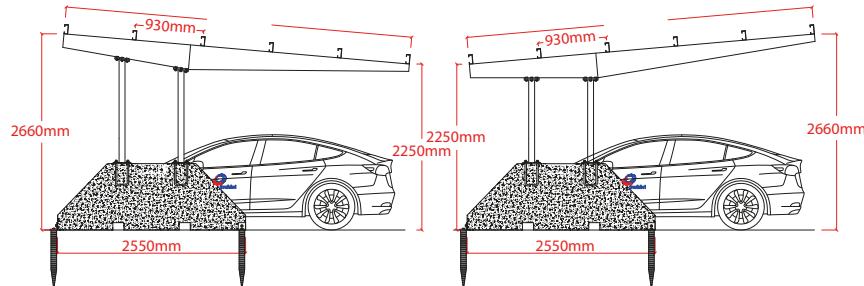
Summary of Materials

S27SSR quality steel, HA25 concrete, zinc-plated fasteners

- Sendzimir galvanised steel straps with trapezoidal, galvanised or pre-lacquered sheet metal covering + micro-rails and staples.
- Module fixing rails perpendicular to straps with aluminium staples.
- Watertight drainage channels with clips. With

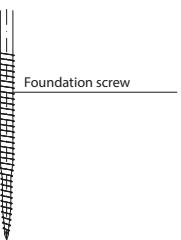
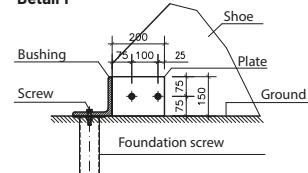
Plans

SP3 Exogenous 1800

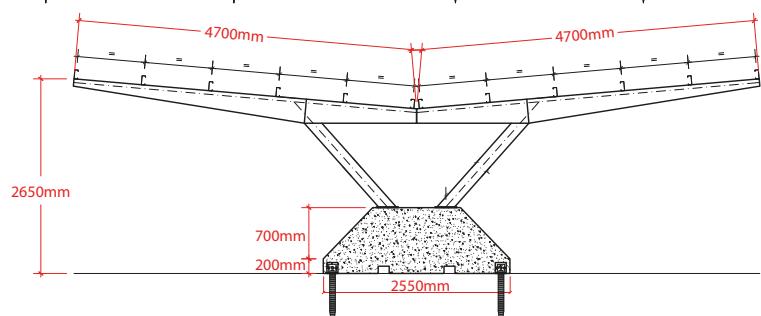
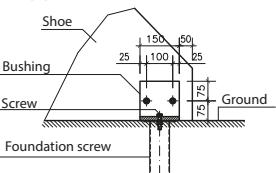


Connection Foundation screw

Detail 1

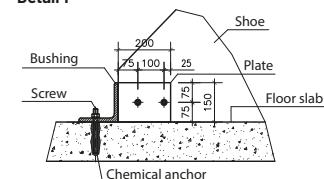


Detail 2

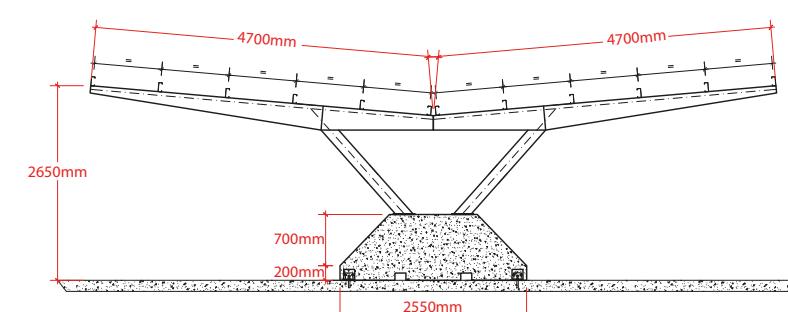
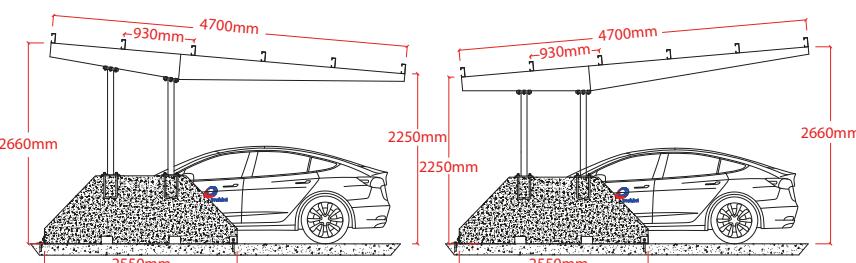
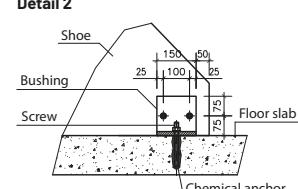


On the floor slab, Reinforced concrete thickness ≥ 15cm.

Detail 1

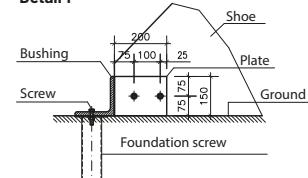


Detail 2

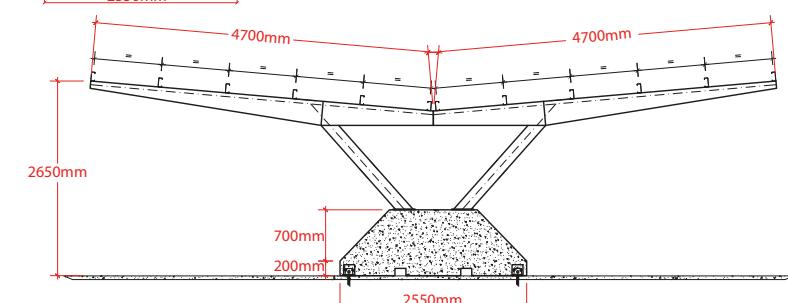
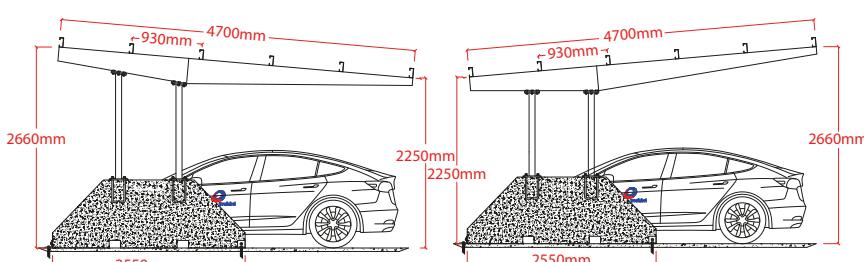
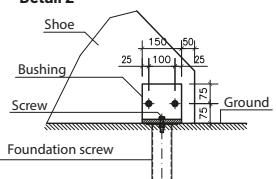


On compacted/paved ground

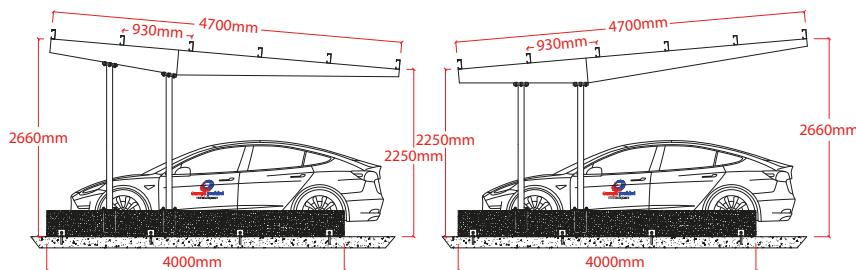
Detail 1



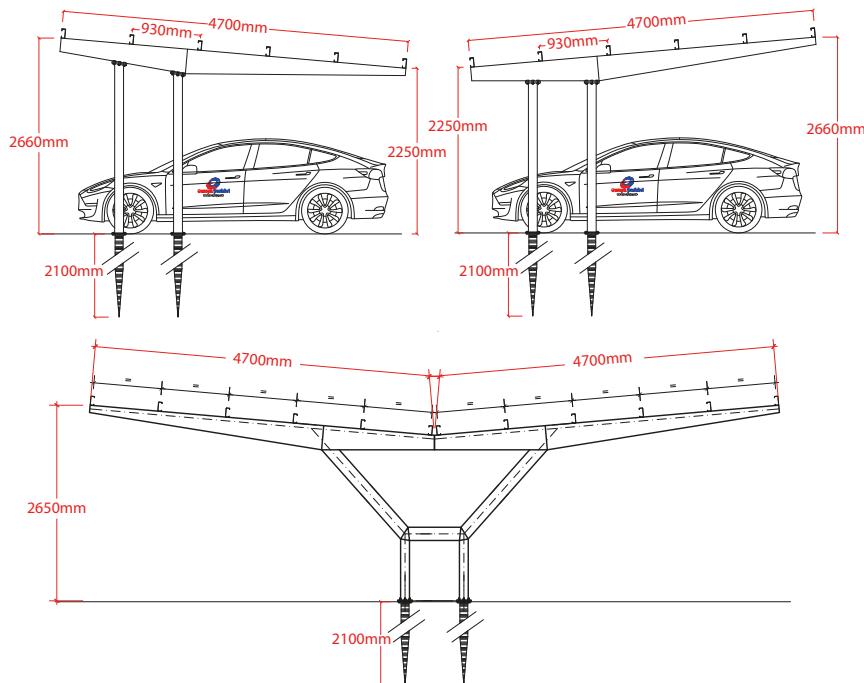
Detail 2



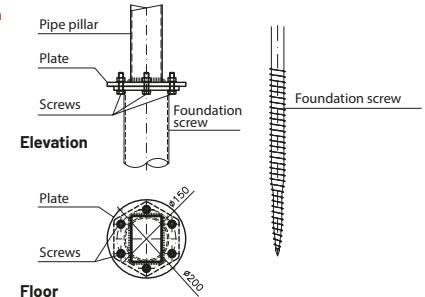
SP3 Exogenus 1250



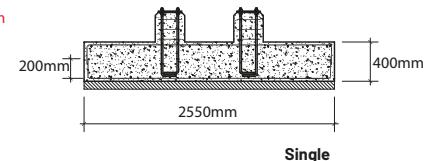
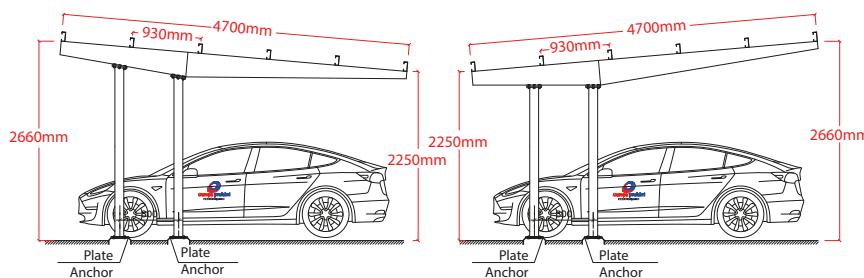
SP3 Screw-in



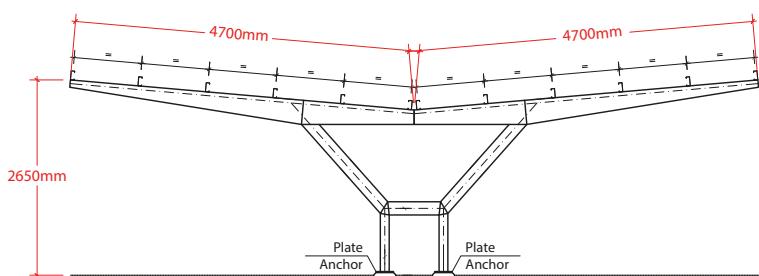
Union Foundation screw



SP3 Traditional Shoe



Single



Double

Protective finishes

Some of the types of structural protective finishes offered by **Europa Prefabri** for the structural brackets of its car park canopies.

1

PRIMER AND PAINT

(According to regulations applied to the product at source, such as UNE 48284 or UNE-EN ISO 8501 / 8502 / 8503).



2

GALVANISED

Standardised process UNE-EN ISO 1461 and ISO 14713-1.

Hot-dip galvanising



3

DUPLEX

Hot-dip galvanised (in accordance with UNE-EN ISO 1461 and ISO 14713-1 standards) + paint finish (RAL to be chosen by the customer) applied by cold spraying (in accordance with the regulations applicable to the product in origin, such as UNE 48284 or UNE-EN ISO 8501 / 8502 / 8503).



4

THERMAL COATING

Oven-cured paint system, with environmental category certification (C1 to C4) according to standard UNE-EN ISO 12944-2.



Classification of corrosive environments C1 to C5

According to the UNE-EN ISO 12944 standard

Category	Corrosivity level	Examples of typical environments
C1	Very low	Dry, ventilated interiors such as offices, museums, control rooms
C2	Low	Unheated interiors with some humidity: warehouses, workshops. Outdoors with low pollution
C3	Medium	Urban and industrial areas with moderate pollution. Coastal areas with low salinity
C4	High	Industrial areas with high humidity and pollution. Coastal areas with moderate salinity.
C5	Very high	Aggressive industrial environments or coastal areas with high salinity and humidity



Extras

Europa Prefabri offers a variety of extras designed to improve the performance and customisation of its photovoltaic canopy structures.

1

TRIM

Strap concealment trims

Trims that conceal the straps or a cleaner, more elegant finish in line with the modern aesthetics of Sunpark® canopies.



2

WIRING

Cable routing and concealment

System that keeps all internal wiring protected, offering a safer, tidier and visually impeccable installation.



3

INTEGRATION

Electric vehicle charger integration

Turning the carport into a complete and perfectly optimised photovoltaic system.



4

DRAIN

Drainage gutter

Integrated gutter for efficient water drainage, preventing leaks and improving the safety and durability of the car park.



Installation of photovoltaic modules



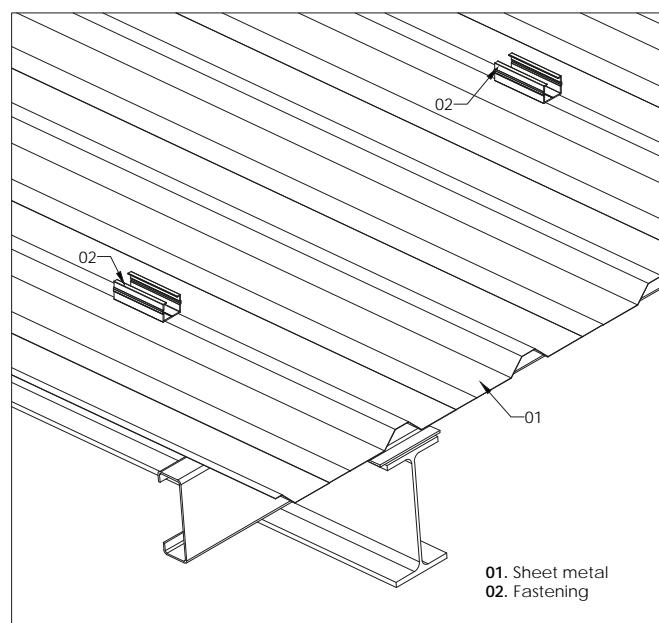
Fixing to sheet metal roof



Pressure plates compatible with microrail

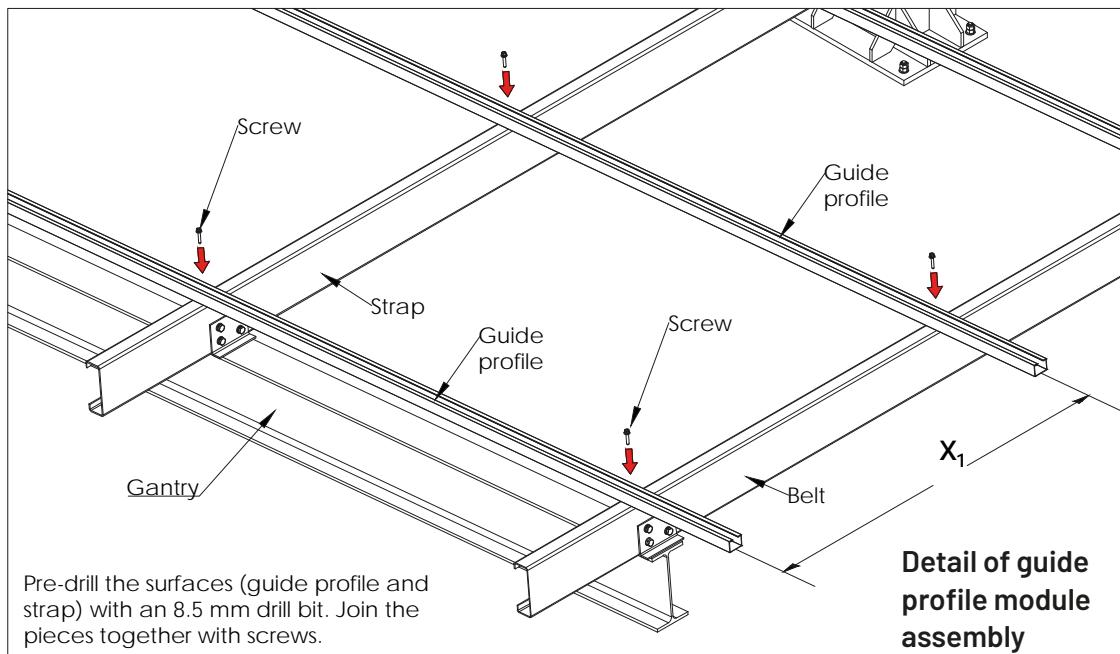


Roof detail

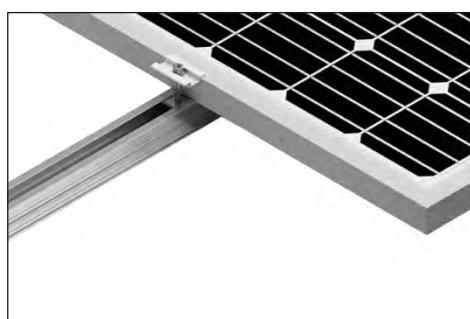


Microrail

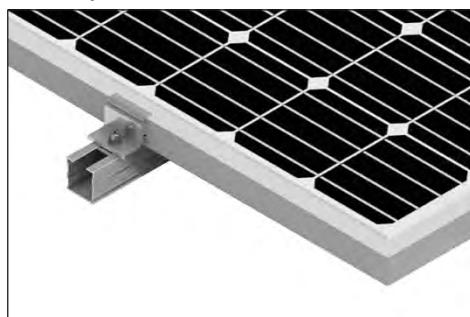
Rails Fixing without plate



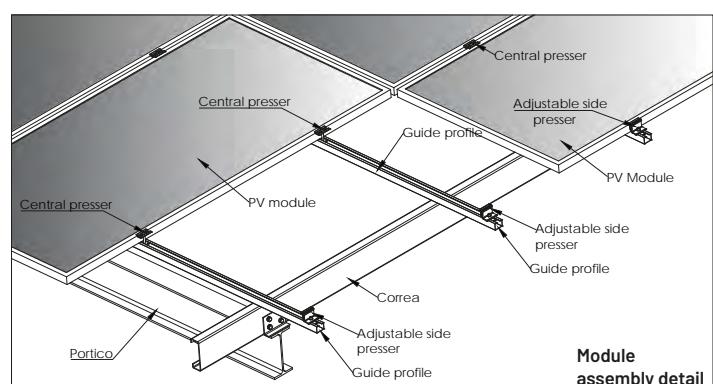
X₁ - The distance between guide profiles will be determined by the type of panel



Central press detail



Detail of side presser



Watertight drainage channels





sunpark®

solar parking system

Parking the past



UNE-EN 1090-2

CERTIFICATE OF CONFORMITY
OF FACTORY PRODUCTION CONTROL NO.
2449/CPR/AC-PV96

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