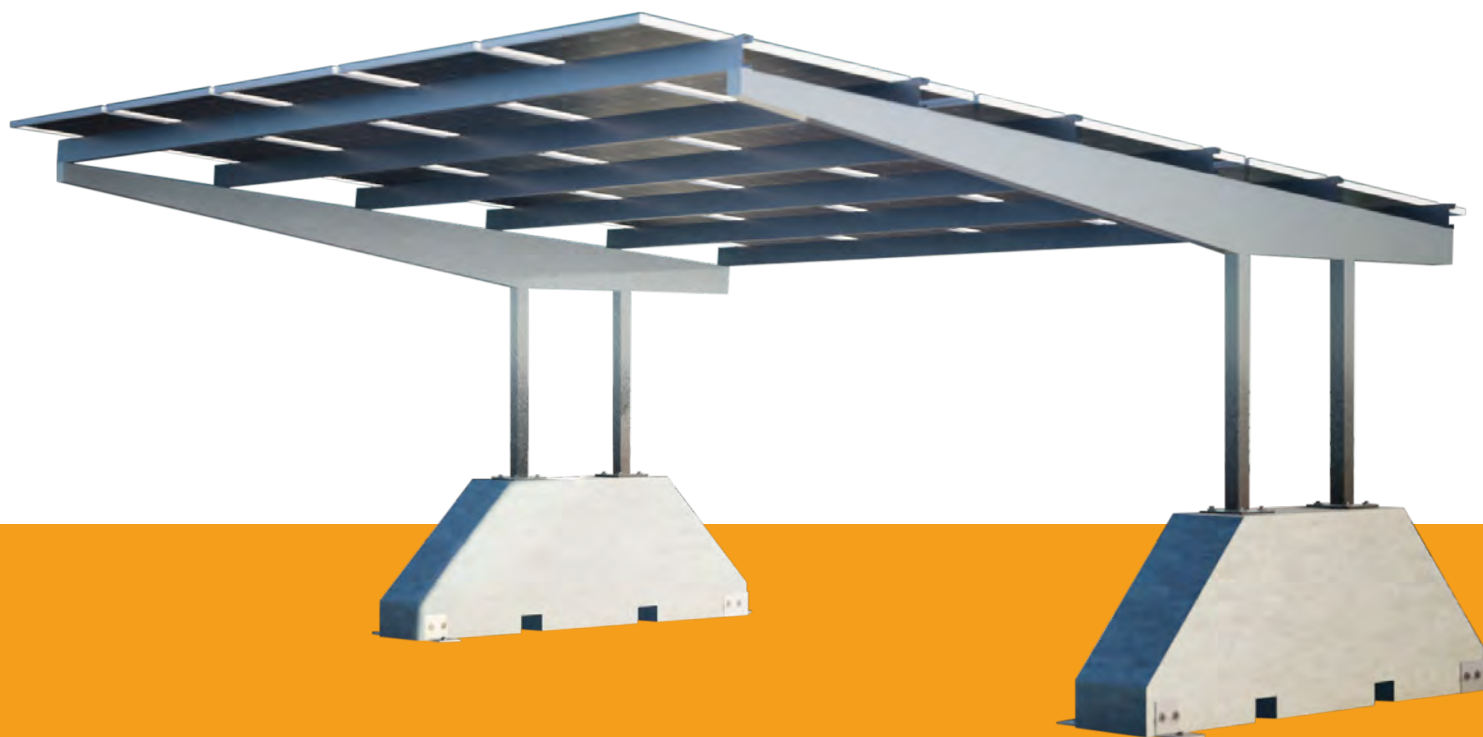


# **sunpark**<sup>®</sup>

solar parking system

WWW.SUNPARK.ES



Solar Parking Model

# Carport

Sunpark-M3



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.





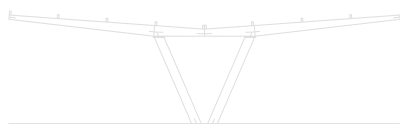
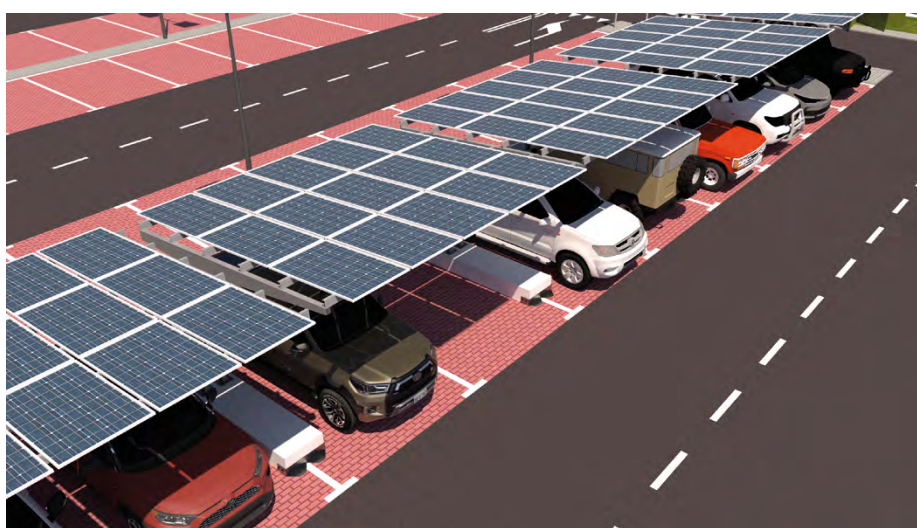
# Turn your car park into a source of energy.

Sustainability | Self-consumption | Savings | Circular Economy



Photovoltaic Carport - Sunpark M3





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

**Address:**  
Calle de Perú, 6  
Edificio Twin Golf B, Planta 2, Oficina 1  
Las Rozas de Madrid, 28290 – Spain

**Telephone:**  
+34 915 593 625

**Websites:**  
[www.sunpark.es](http://www.sunpark.es)  
[www.europa-prefabri.com](http://www.europa-prefabri.com)

**Information:**  
[info@sunpark.es](mailto:info@sunpark.es)  
[oficina@europa-prefabri.com](mailto:oficina@europa-prefabri.com)

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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**

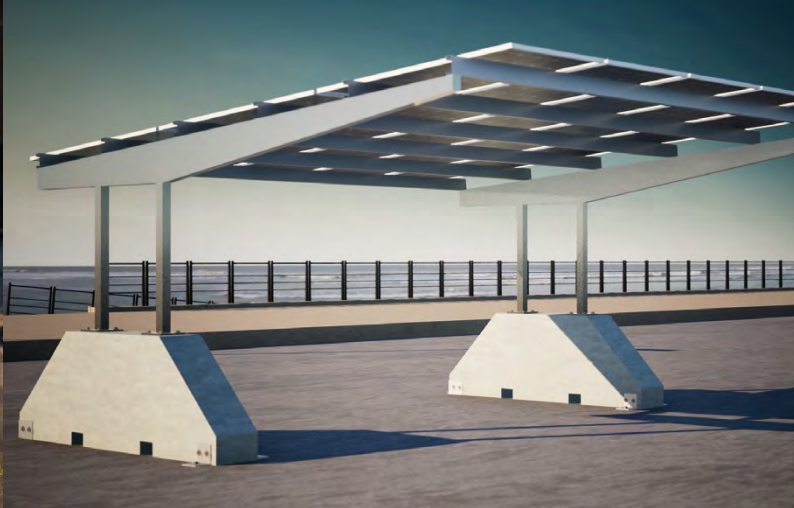


## **Insulated footing**

*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  $\geq 15$  cm. Fixing with chemical anchors.  
Natural ground: Suitable for any type of ground with a minimum resistance of  $1.5 \text{ kg/cm}^2$ , 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  $\geq 15$  cm. Fastened using chemical anchors.  
Natural ground: Suitable for ground with a minimum resistance of  $1.5 \text{ kg/cm}^2$ , 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  $1.5 \text{ kg/cm}^2$  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.

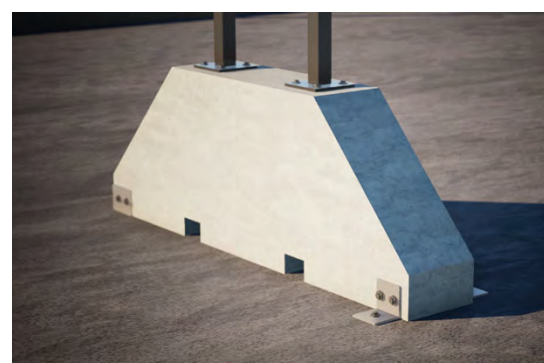
## Colour



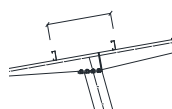
**Additional protection through the thermo-lacquer process, which gives the parts a durable, highquality finish in a range of colours.**  
**Option of thermo-lacquer in a choice of RAL colours.**



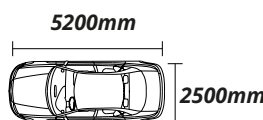
**NO CONSTRUCTION WORK, no need for foundation footings.**



## 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.



Structural integration of any EV charger model.



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.**

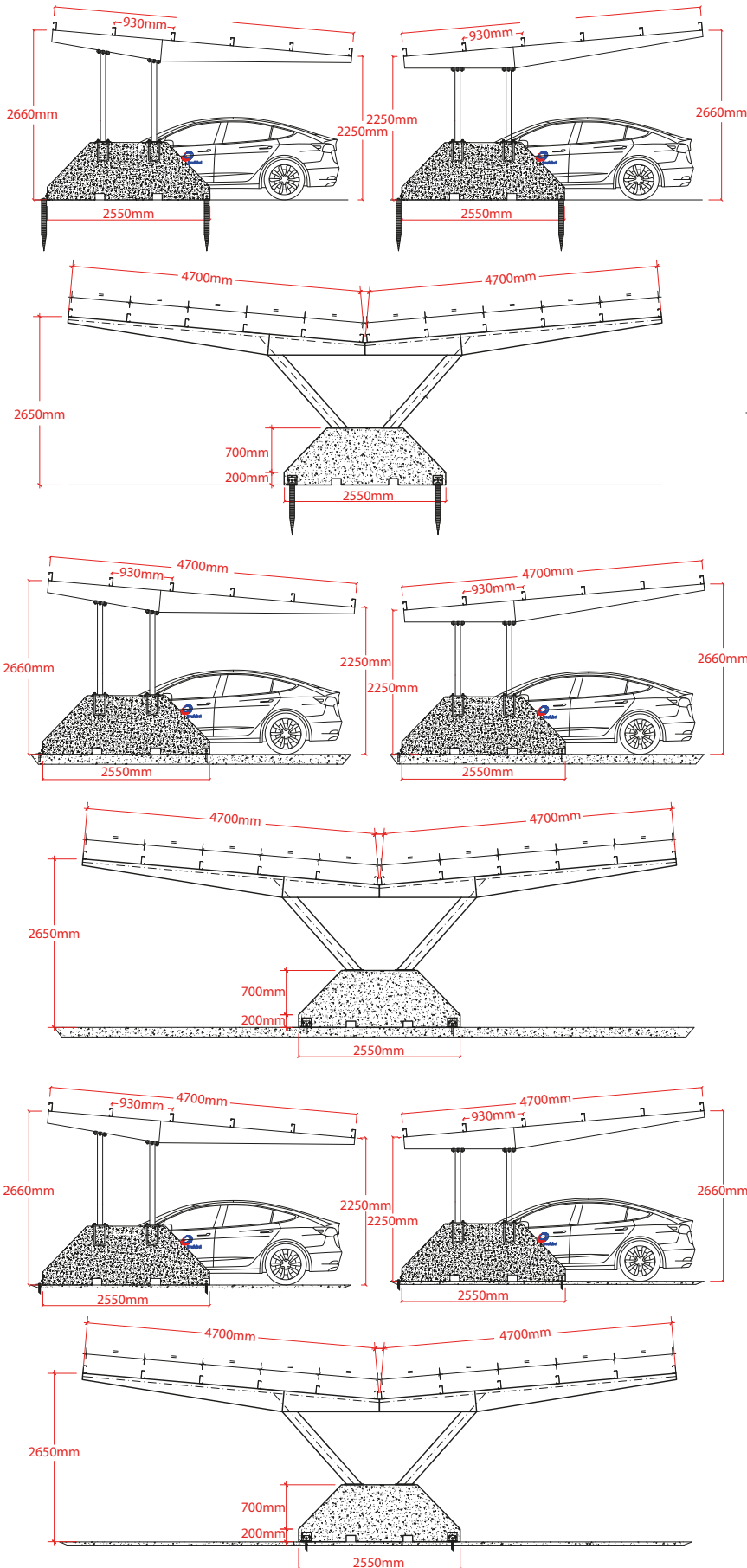
## Summary of Materials

S275SR 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

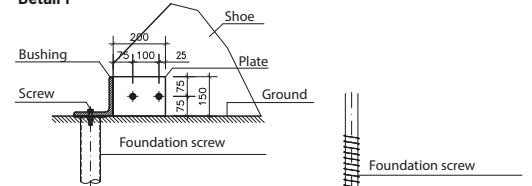


## SP3 Exogenous 1800

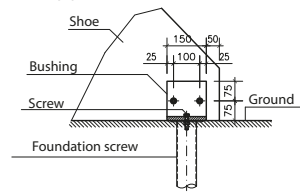


### Connection Foundation screw

#### Detail 1

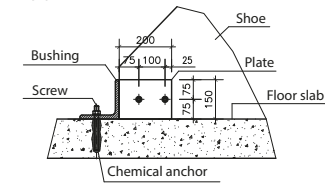


#### Detail 2

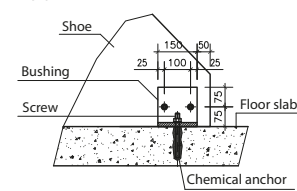


### On the floor slab, Reinforced concrete thickness $\geq 15\text{cm}$ .

#### Detail 1

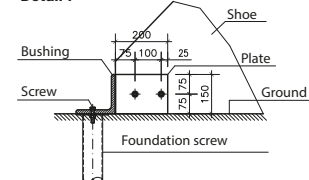


#### Detail 2

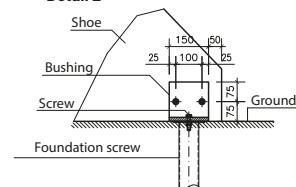


### On compacted/paved ground

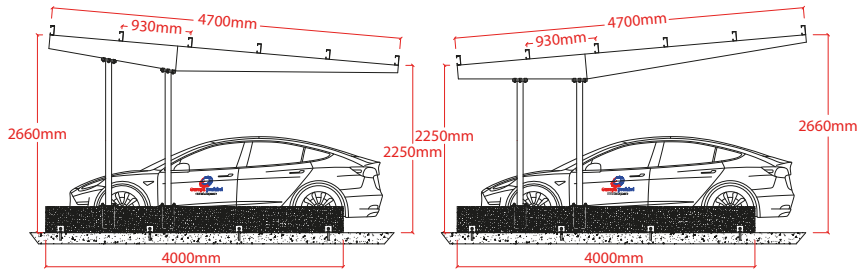
#### Detail 1



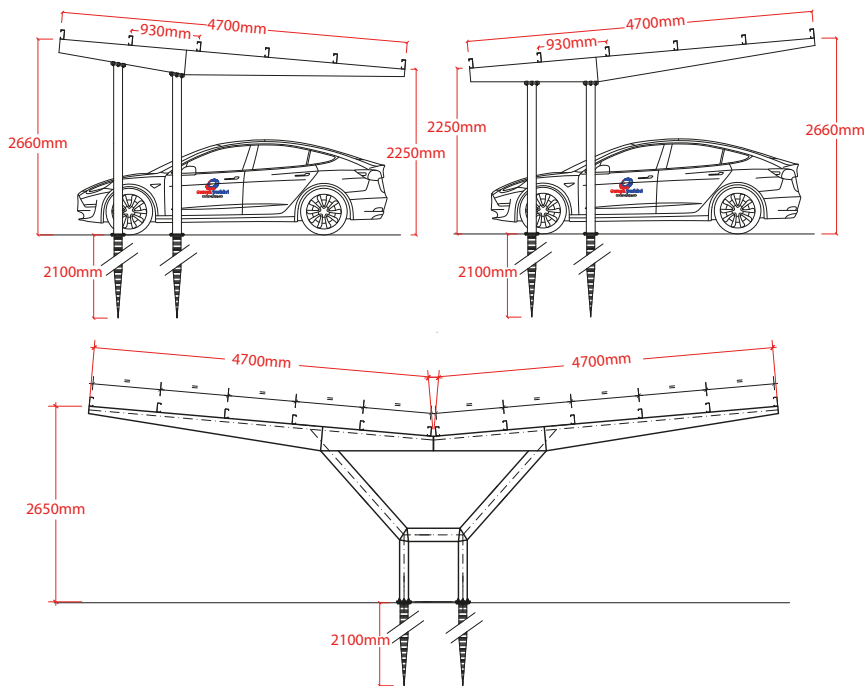
#### Detail 2



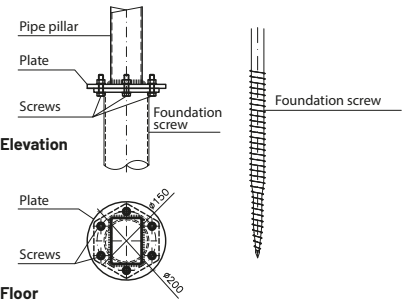
### SP3 Exogenus 1250



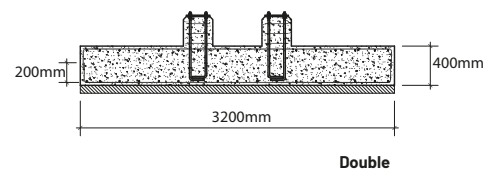
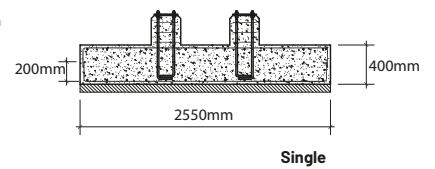
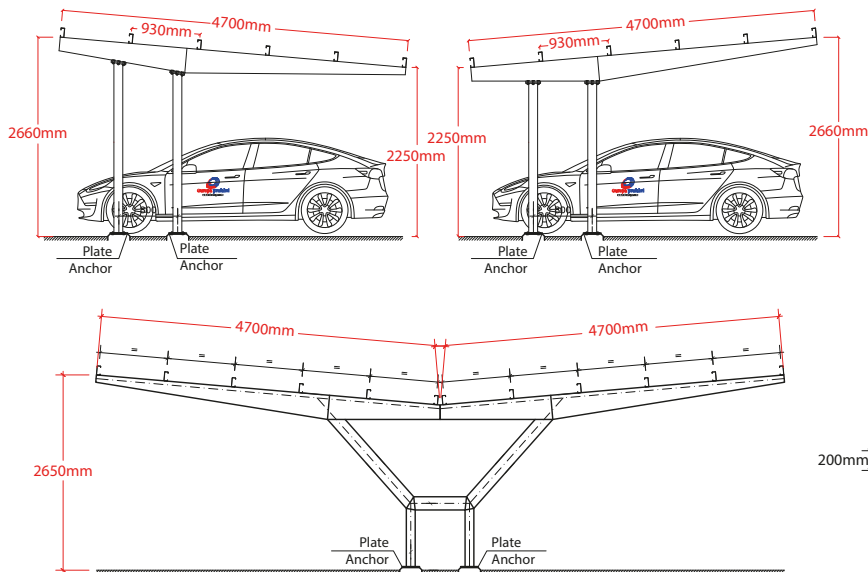
### SP3 Screw-in



#### Union Foundation screw



### SP3 Traditional Shoe





# Protective finishes

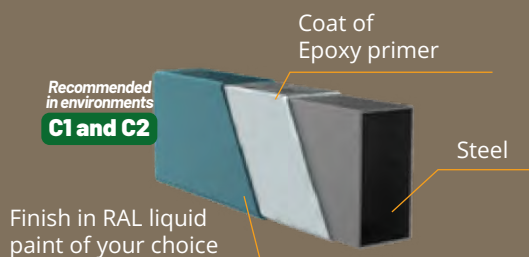
Some of the types of structural protective finishes offered by **Europa Prefabri** for the structural brackets of its car park canopies.

## 1 PRIMER AND PAINT

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

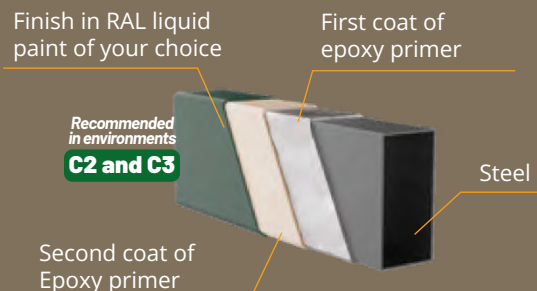
### Single primer coat

+ RAL paint finish (Customer's choice)



### Double primer coat

+ RAL paint finish (Customer's choice)



## 2 GALVANISED

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

### Hot-dip galvanising

Coating Galvanised

Recommended in environments C3 and C4

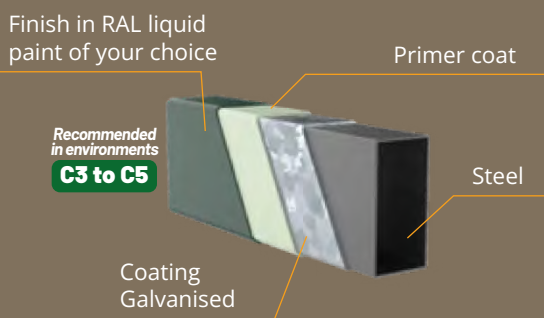


## 3 DUPLEX

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).

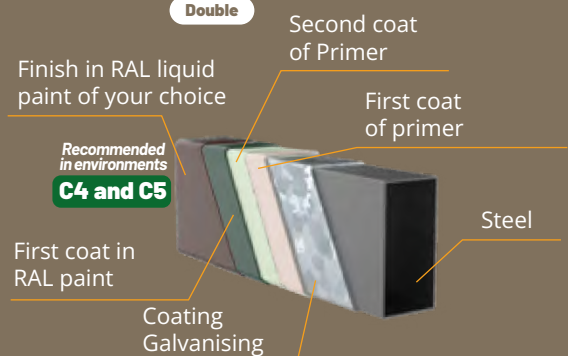
### Duplex system

Simple



### Duplex system

Double



## 4 THERMAL COATING

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

### Thermal lacquer

Painting



### Thermal lacquer painting

Simple



## 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



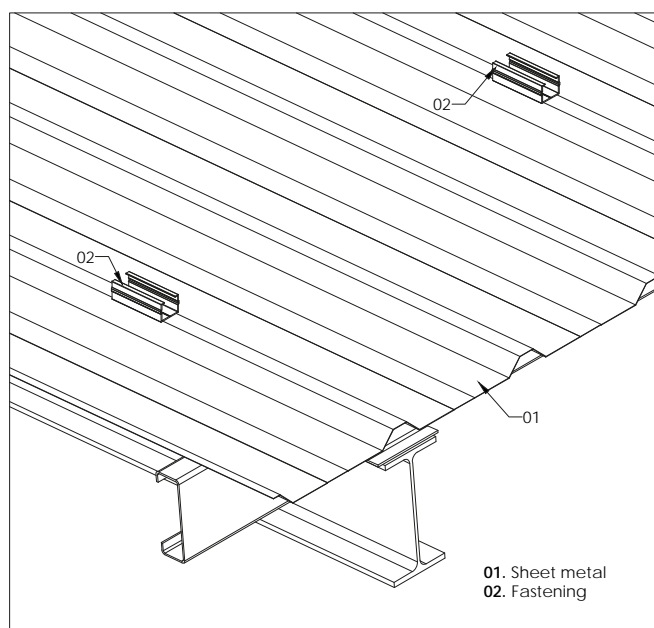
Pressure plates compatible with microrail



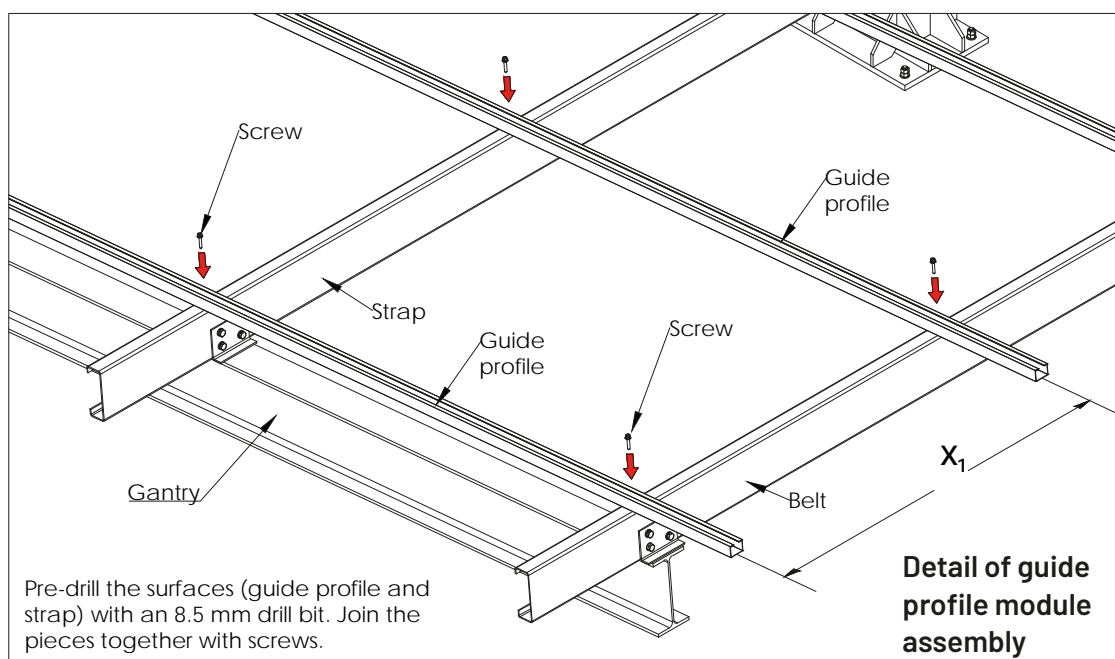
Roof detail



Microrail



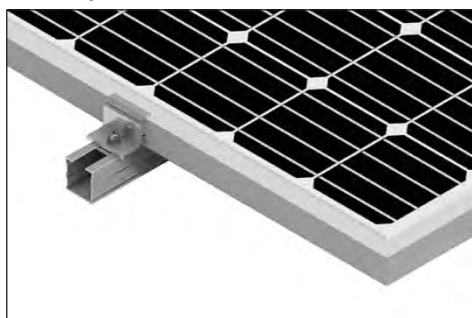
# Rails Fixing without plate



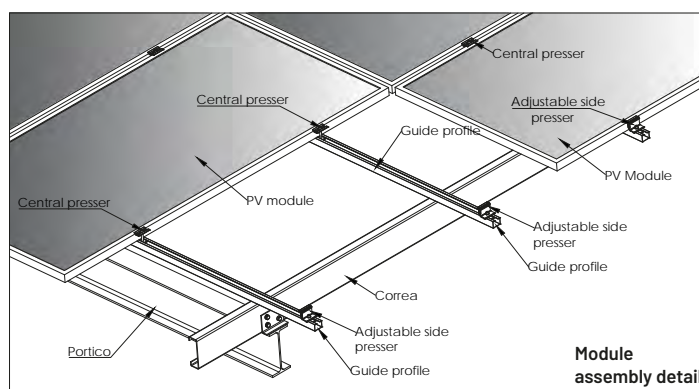
$X_1$  - The distance between guide profiles will be determined by the type of panel



**Central press detail**

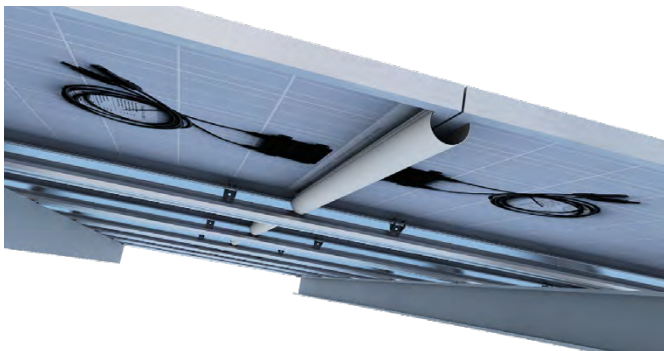
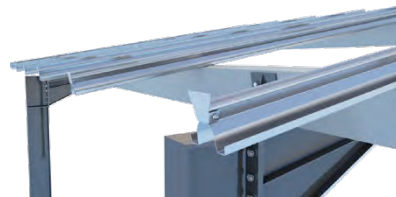


**Detail of side presser**





# Watertight drainage channels



Photovoltaic Carport - Sunpark M3



# ***sun*park®**

**solar** parking system

**Parking the past**



1UNE-EN 1090-2

CERTIFICATE OF CONFORMITY  
OF FACTORY PRODUCTION CONTROL NO.  
2448/CPR/AC-PV96

C/ Perú 6. Edificio Twin Golf B. Planta 2  
Oficina 1. 28290 Las Rozas (Madrid) SPAIN



Tel. 91 559 36 25 / Fax. 91 541 82 99



[info@sunpark.es](mailto:info@sunpark.es)



+34 915 593 625

**WWW.SUNPARK.ES**