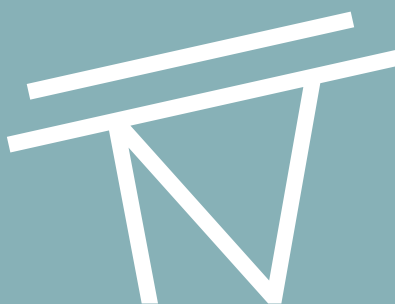


CATALOG  
PENSILSOLE





### **VISION**

With our range of products, we are specifically focusing on the ecological aspects connected to a new lifestyle, where the outdoors symbolize being in touch with nature, where boundaries disappear and change. Our systems, working with renewable energy sources, are a valid answer to the need to preserve the world that we share with all living beings, to respect it and to keep it untouched.

### **MISSION**

The legacy we have been carrying on for over thirty years is a centuries-old tradition, strongly connected to the Earth and its bounty. Our mission is loyal to the spirit of cultivating, ploughing, manuring, watering, and harvesting. Faithful to our model, we cultivate human relationships and coordinate production with harvest seasons – just as it happens in nature. This *modus operandi* helped us to create a design tailored to evolving markets, and consolidating an organic, consistent set of corporate ethics that creates value and opportunity.

# 5 REASONS TO CHOOSE GIULIO BARBIERI CARPORTS

## 1 COMPATIBILITY WITH ANY PHOTOVOLTAIC PANEL

Pensilsole is a carport adaptable to photovoltaic panels of any type and size on the market.

## 2 QUICK INSTALLATION TIME

Pensilsole and pensilauto are installed quickly, as the structural components are delivered pre-assembled. Quick attachment of PV panels on pensilsole is ensured by specific accessories that are included in the delivery. The load-bearing structures have reinforced concrete bases with a grit finish, so they do not require foundations: this means opening a construction site that is easy to set up and manage, a simplified permitting process, and no need for soil remediation work at the end of the system's life. Versions with steel plates to be attached to an existing or prepared foundation with appropriate excavation at the installation site are also available.

## 3 ADAPTABILITY

The structures are easily adaptable to new needs that may arise over time: since they are modular, it is always possible to attach and join a new canopy through a special system of gutters and downspouts; in addition, it is always possible to replace the photovoltaic panels with higher-performance models, even if they have different dimensions.

## 4 CUSTOMIZATION

The structures are customizable in size and finish. Upon request, they can be equipped with advertising banners.

## 5 LIMITED MAINTENANCE

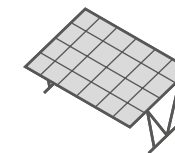
Maintenance of shelters and carports is limited to tightening screws and general cleaning on an annual basis, as the structure is made of anodized or thermosetting polyester powder coated aluminum profiles. Joints and structural nodes are made of surface-treated steel using a hot-dip galvanizing process and subsequent polyester powder surface coating. Aluminum structures are a technological added value, which gives the structural deck strength, elasticity and durability: aluminum does not oxidize, and it is therefore possible to install sunroofs and carports even in dust-saturated atmospheres such as industrial ones or near wetlands or marine areas. At the end of its life, the product allows the transformation of profiles into scrap that will be melted down and processed into new products or profiles for industrial use.







## PHOTOVOLTAIC CARPORT PENSILSOLE



The Pensilsole carport can be equipped with photovoltaic panels. It is an extremely versatile structure that can accommodate the client's desired panels. The design of Pensilsole respects a precise optimized static scheme that allows the carport to achieve high performance standards by using profiles of small cross section, achieving an elegant and optically minimal aesthetic result. Anchoring to the ground can be done through above-ground concrete ballasts that do not require the preparation of foundations, significantly decreasing the time and cost required for installation. Upon request, however, it is possible to install the structure through plates to be anchored to a foundation. Pensilsole is also available with single cantilever-type support, with the cantilever roof supported by steel pillars, attached to a foundation. Upon request, the aluminum carport can be customized by choosing from a wide range of colors and finishes. In particular, the warm-tone range and matt finish give Pensilsole a more refined look in harmony with natural elements, while the oven-treated thermoset polyester powder coating increases product quality and resistance to the wear and tear of time.













14      **LOCATION**  
Malta

**CUSTOMER**  
Alternative Technologies

**MODEL**  
Pensilsole Maxi



**LOCATION**  
Strausberg, Germany

**CUSTOMER**  
Public administration

**MODEL**  
Pensilsole Middle



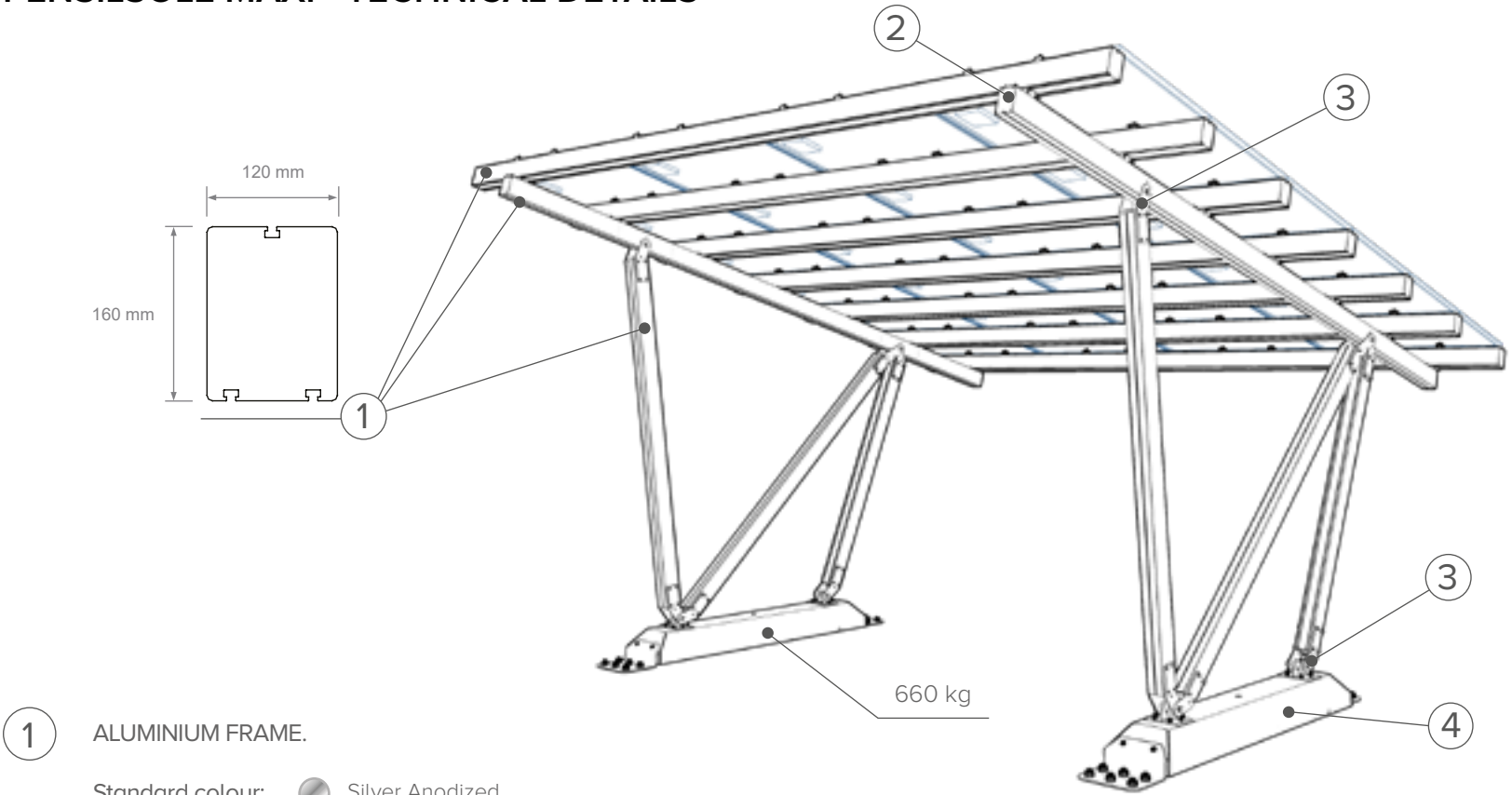








PENSILSOLE MAXI - TECHNICAL DETAILS



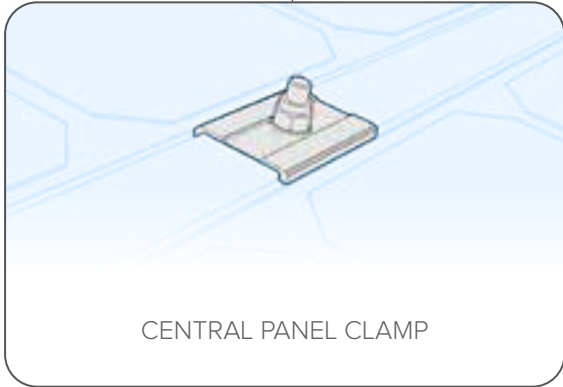
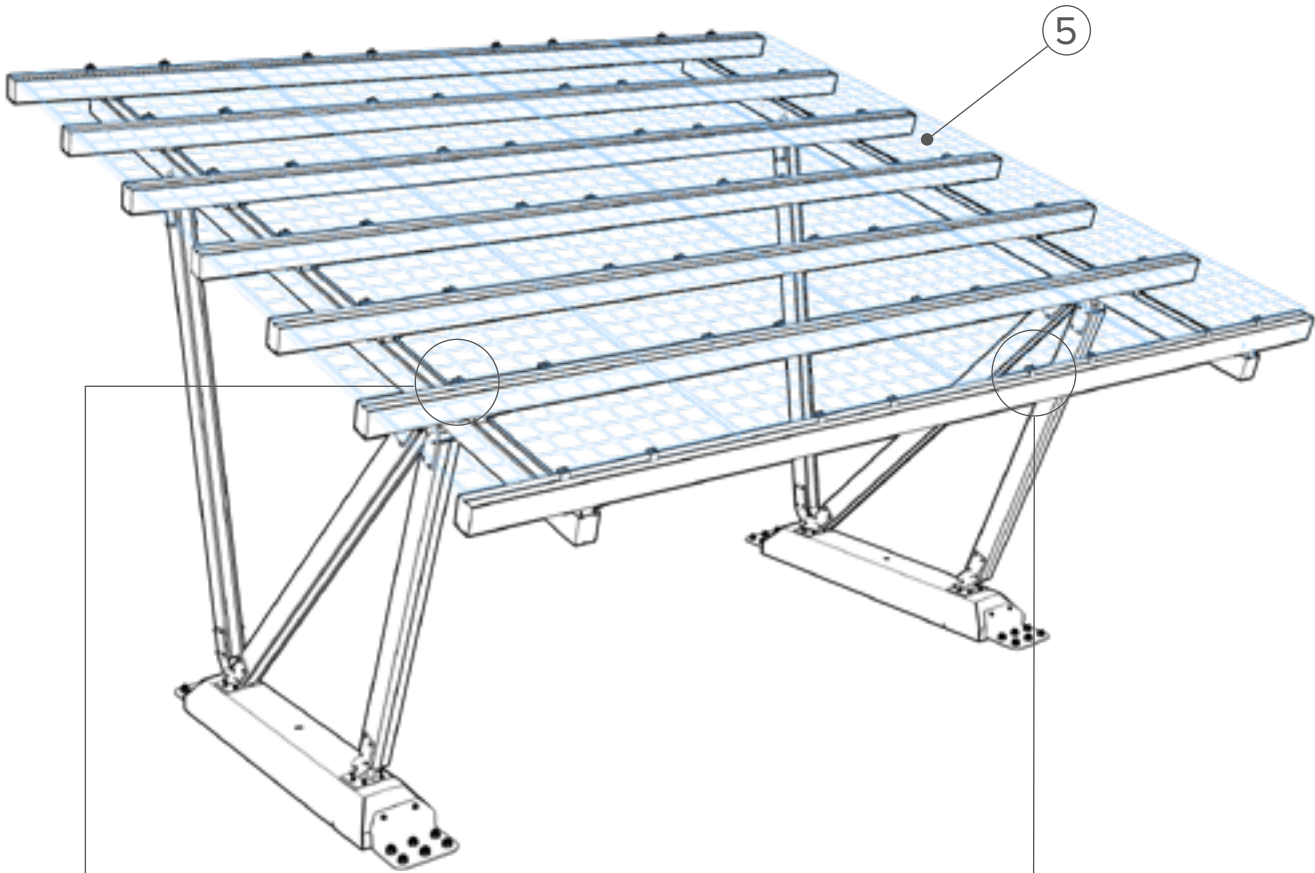
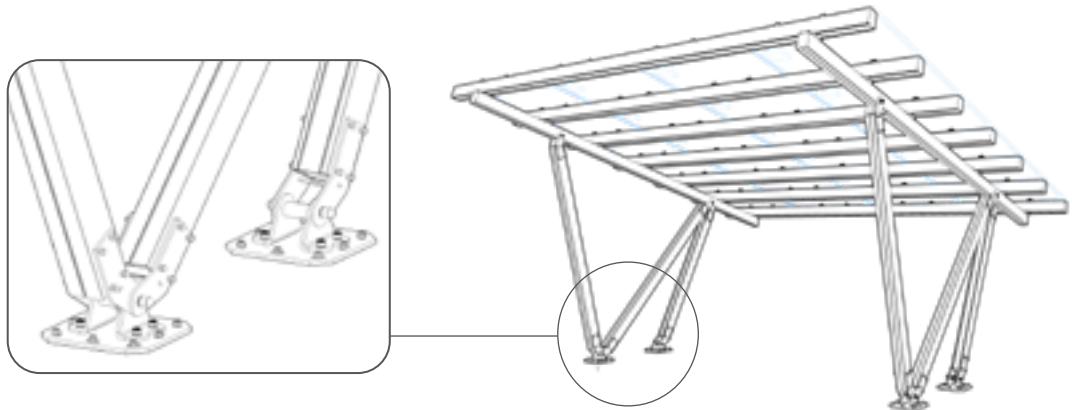
- 1 ALUMINIUM FRAME.
- Standard colour: Silver Anodized
- Non standard colours:  
Matt with rough finish - polyester powder coating
- White    Dove-Grey    Dark-Brown
- Further RAL colours available in both matt and glossy smooth finish.

- 2 ALUMINIUM CAPS SUBJECTED TO POLYESTER POWDER COATING
- Standard colour: RAL 7044

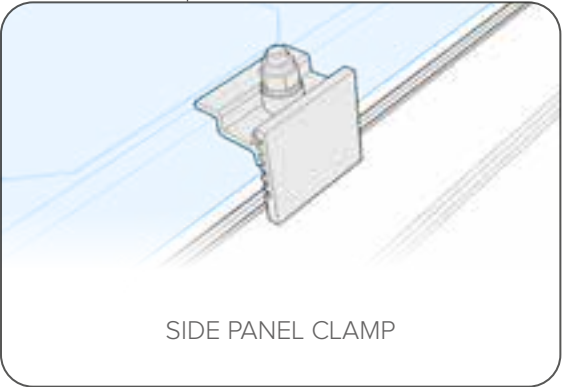
- 3 STEEL PLATES SUBJECTED TO HOT-DIP GALVANIZING AND POLYESTER POWDER COATING
- Standard colour: RAL 7044

- 4 CONCRETE BALLASTS WITH SANDBLASTED WHITE GRANITE FINISH
- 
- OPTIONAL  
PROTECTIVE CASING FOR STAKES OR ANCHORS
- Standard colour: RAL 7044

- VERSION WITH HOT-DIP GALVANIZED AND POLYESTER POWDER COATED STEEL ANCHOR PLATES FOR CONCRETE PLINTH OR SLAB
- Standard colour: RAL 7044



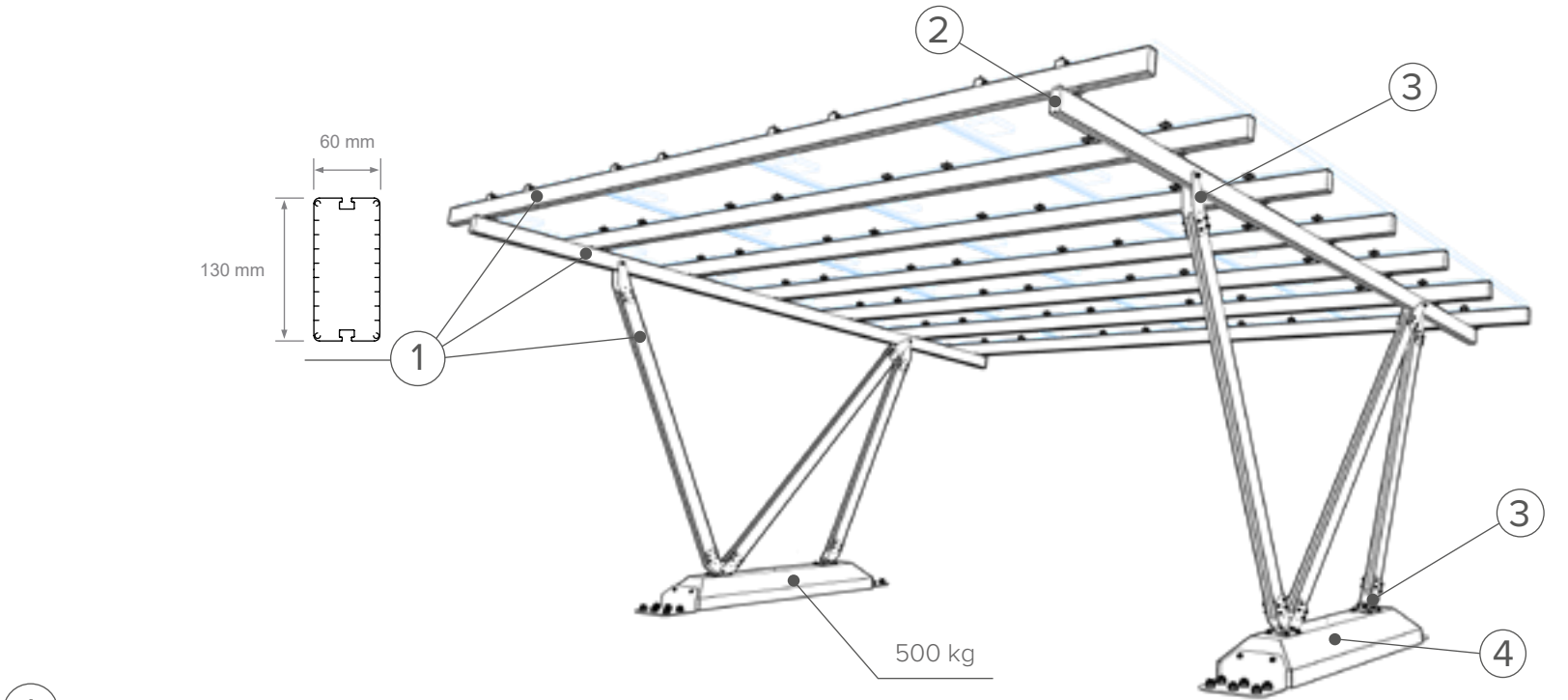
THE RAPID PANEL FASTENING SYSTEM IS INCLUDED IN THE PRICE. THE QUANTITY AND ARRANGEMENT OF CLAMPS DEPEND ON THE SIZE OF THE STRUCTURE.



- 5 THE STRUCTURE SUPPORTS ANY MODEL AND SIZE OF SOLAR PANEL DUE TO ITS INTEGRATED QUICK FIXING SYSTEM. THE COMPANY DOES NOT SUPPLY SOLAR PANELS.



PENSILSOLE MIDDLE - TECHNICAL DETAILS



- 1 ALUMINIUM FRAME.

Standard colour: Silver Anodized

Non standard colours:  
Matt with rough finish - polyester powder coating

White    Dove-Grey    Dark-Brown

Further RAL colours available in both matt and glossy smooth finish.


- 2 ALUMINIUM CAPS SUBJECTED TO POLYESTER POWDER COATING

Standard colour: RAL 7044

- 3 STEEL PLATES SUBJECTED TO HOT-DIP GALVANIZING AND POLYESTER POWDER COATING

Standard colour: RAL 7044


4 CONCRETE BALLASTS WITH SANDBLASTED WHITE GRANITE FINISH

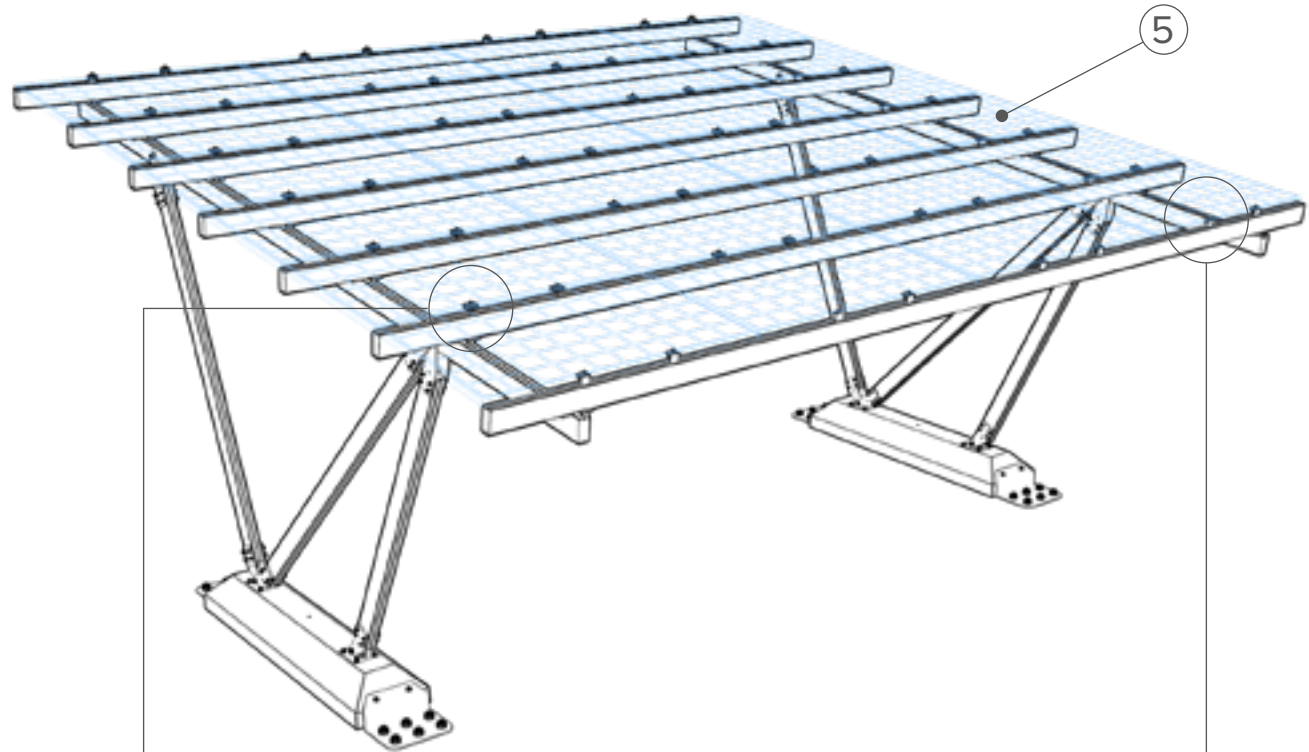
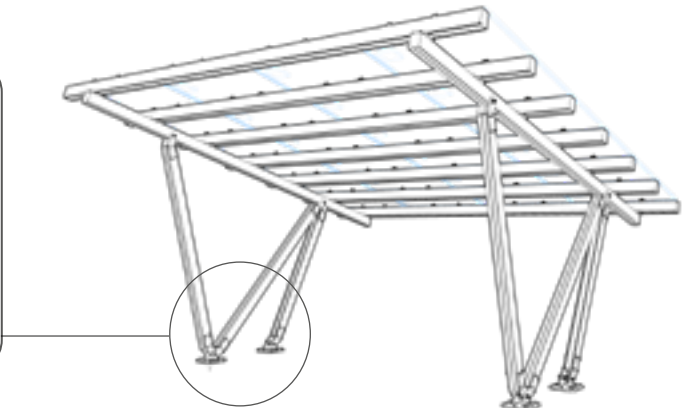


OPTIONAL  
PROTECTIVE CASING FOR STAKES  
OR ANCHORS

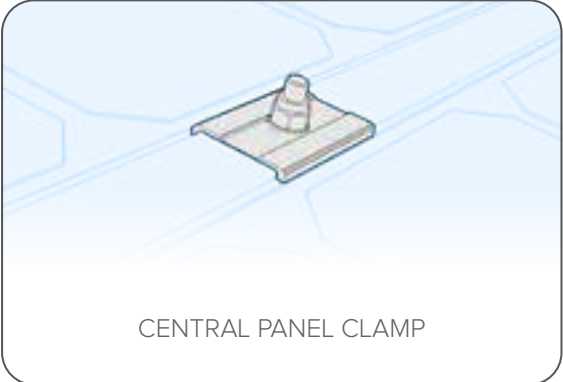
Standard colour: RAL 7044

- VERSION WITH HOT-DIP GALVANIZED AND POLYESTER POWDER COATED STEEL ANCHOR PLATES FOR CONCRETE PLINTH OR SLAB

Standard colour: RAL 7044
- 

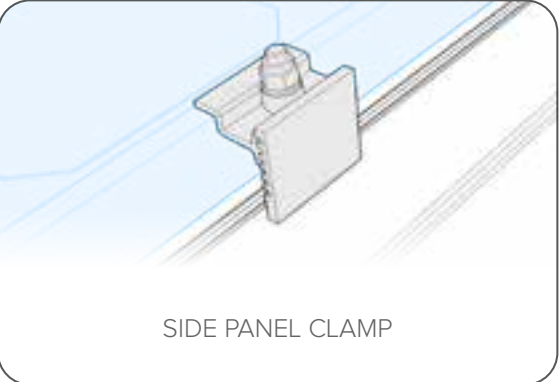


5 THE STRUCTURE SUPPORTS ANY MODEL AND SIZE OF SOLAR PANEL DUE TO ITS INTEGRATED QUICK FIXING SYSTEM. THE COMPANY DOES NOT SUPPLY SOLAR PANELS.



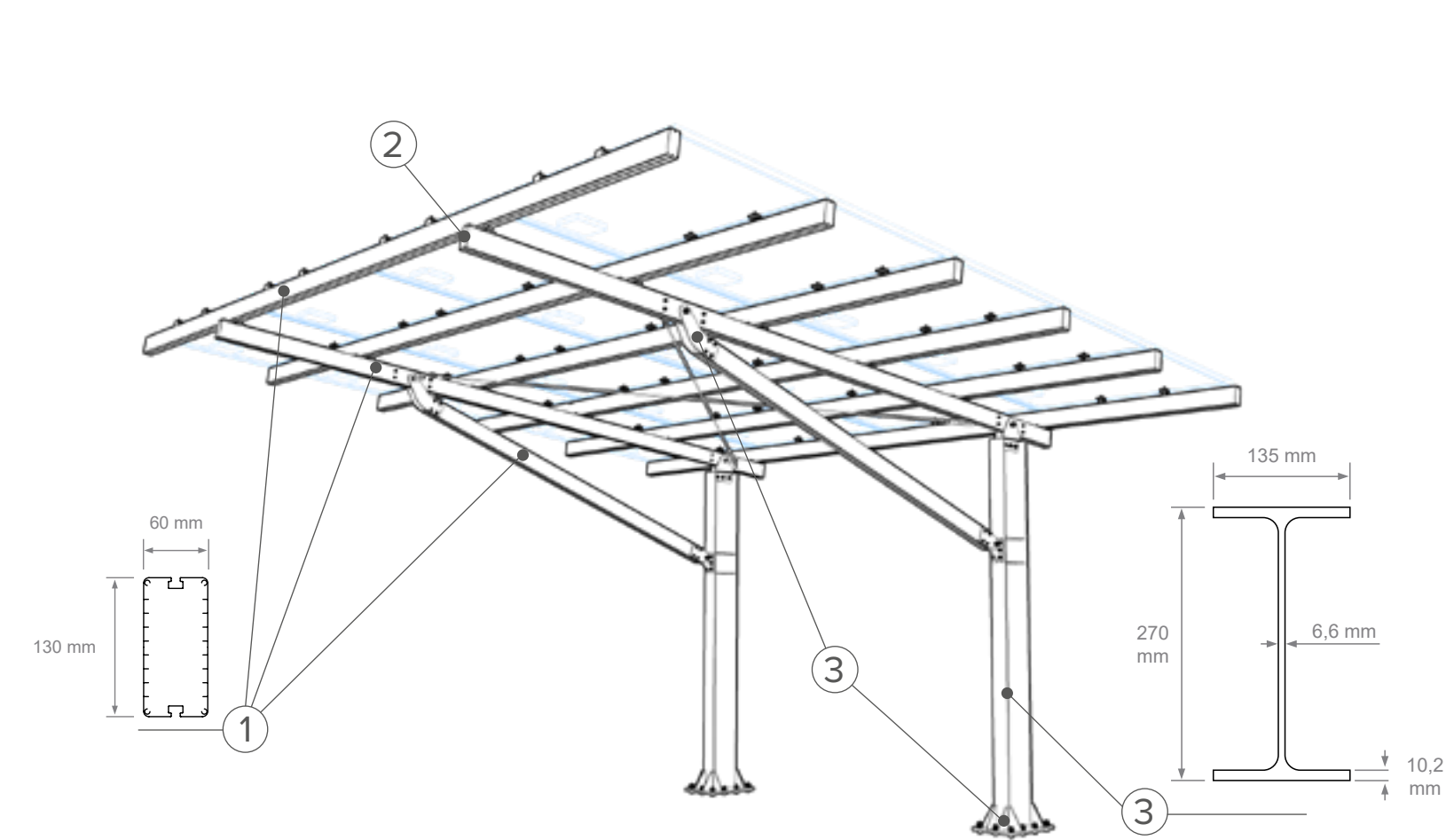
CENTRAL PANEL CLAMP

THE RAPID PANEL FASTENING SYSTEM IS INCLUDED IN THE PRICE. THE QUANTITY AND ARRANGEMENT OF CLAMPS DEPEND ON THE SIZE OF THE STRUCTURE.



SIDE PANEL CLAMP





1

ALUMINIUM FRAME.

Standard colour: Silver Anodized

Non standard colours:

Matt with rough finish - polyester powder coating

White

Dove-Grey

Dark-Brown

Further RAL colours available in both matt and glossy smooth finish.

2

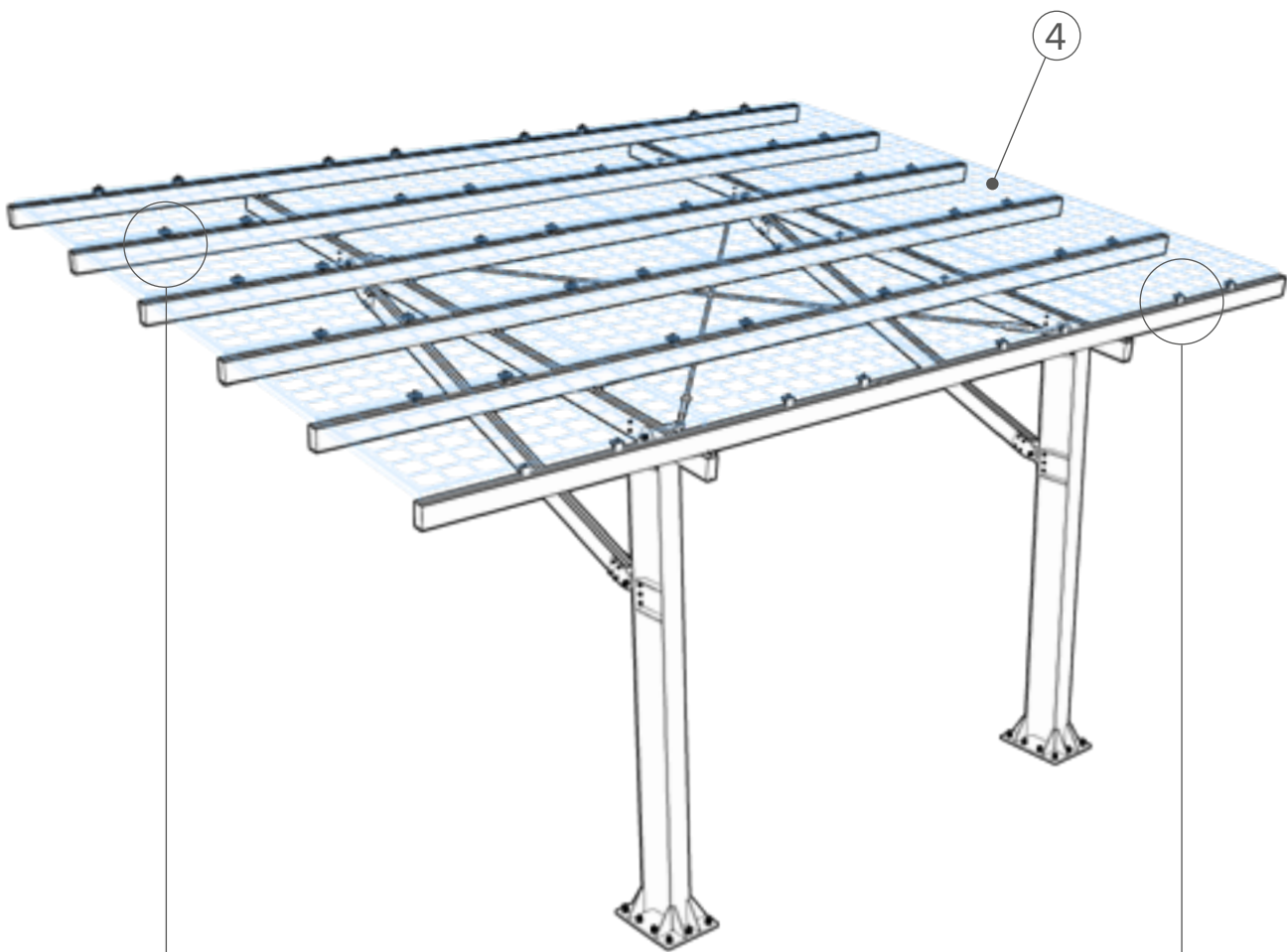
ALUMINUM CAPS SUBJECTED TO POLYESTER POWDER COATING

Standard colour: RAL 7044

3

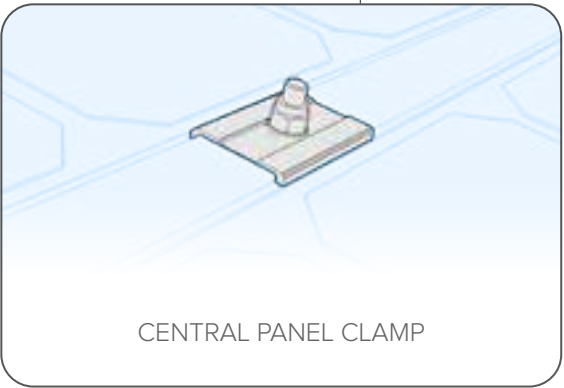
STEEL PLATES SUBJECTED TO HOT-DIP GALVANIZING AND POLYESTER POWDER COATING

Standard colour: RAL 7044

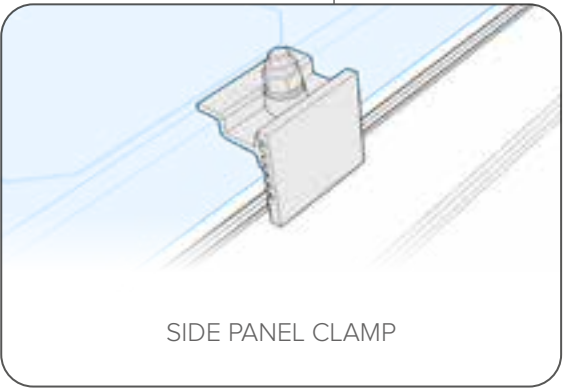


4

THE STRUCTURE SUPPORTS ANY MODEL AND SIZE OF SOLAR PANEL DUE TO THE INTEGRATED QUICK FIXING SYSTEM. THE COMPANY DOES NOT SUPPLY THE SOLAR PANELS.



CENTRAL PANEL CLAMP



SIDE PANEL CLAMP

THE RAPID PANEL FASTENING SYSTEM IS INCLUDED IN THE PRICE. THE QUANTITY AND ARRANGEMENT OF CLAMPS DEPEND ON THE SIZE OF THE STRUCTURE.





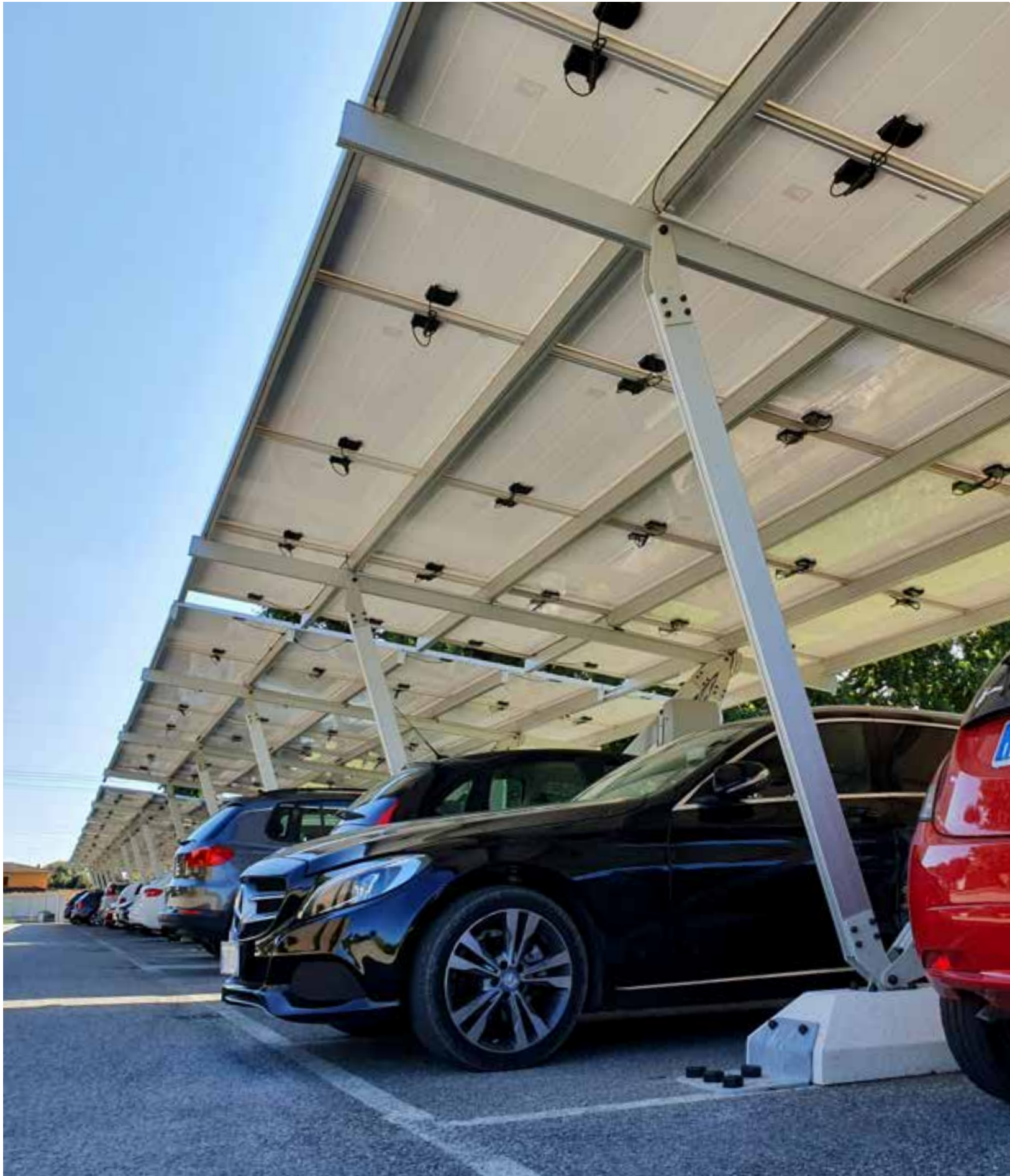








30      **LOCATION**  
Pistoia, Italy      **CUSTOMER**  
Private house      **MODEL**  
Pensilsole Middle



31      **LOCATION**  
Pistoia, Italy      **CUSTOMER**  
Indios Shoes S.r.l.      **MODEL**  
Pensilsole Middle













PENSILSOLE MAXI  
STRUCTURE DIMENSIONS



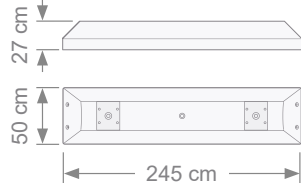
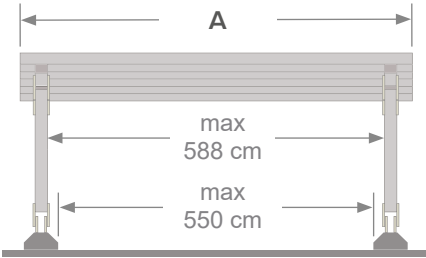
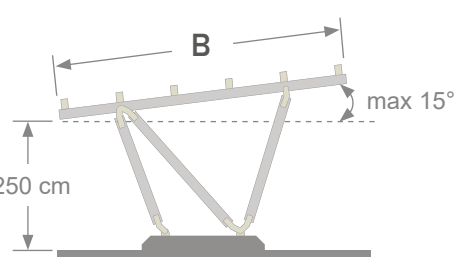





150 Kg/m<sup>2</sup>

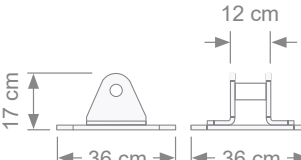
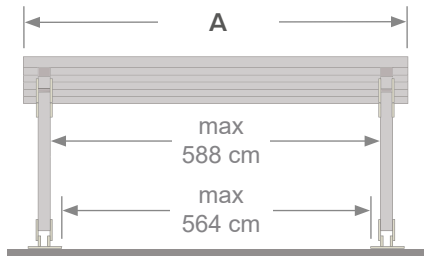
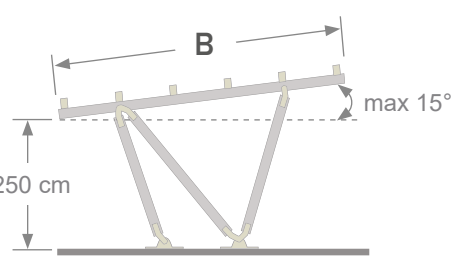





SNOW LOAD  
Snow action on the roof  
(Eurocode 1-3)



150 Km/h


WIND RESISTANCE  
Terrain category III (Eurocode 1-4)

| PENSILSOLE MAXI WITH BALLASTS  |   |   |   |  |   |
|--|---|---|---|--|---|
| <div><div><div>Concrete ballast and sandblasted white granite finish</div><div></div></div><div></div><div></div><div>parking space = max 275 cm</div></div> |   |   |   |  |   |
| MAX DIMENSIONS   |  |  |  |  |  |
|  | 2 PARKING LOTS  | 3 PARKING LOTS  | 4 PARKING LOTS  | 5 PARKING LOTS   | 6 PARKING LOTS  |
|  | 2 Ballasts  | 2 Ballasts  | 2 Ballasts  | 3 Ballasts   | 3 Ballasts  |
|  | 24 Solar panels   | 36 Solar panels   | 42 Solar panels   | 54 Solar panels  | 60 Solar panels   |
| SIDE A (cm)  | 670   | 837   | 1005  | 1340   | 1675  |
| SIDE B (cm)  | 626   | 626   | 626   | 626  | 626   |

| PENSILSOLE MAXI WITH ANCHOR PLATES  |   |   |   |  |   |
|---|---|---|---|--|---|
| <div><div><div>Hot-dip galvanized and painted steel plate on reinforced concrete foundation</div><div></div></div><div></div><div></div><div>parking space = max 282 cm</div></div> |   |   |   |  |   |
| MAX DIMENSIONS  |  |  |  |  |  |
|   | 2 PARKING LOTS  | 3 PARKING LOTS  | 4 PARKING LOTS  | 5 PARKING LOTS   | 6 PARKING LOTS  |
|   | 4 Anchor plates   | 4 Anchor plates   | 4 Anchor plates   | 6 Anchor plates  | 6 Anchor plates   |
|   | 24 Solar panels   | 36 Solar panels   | 42 Solar panels   | 54 Solar panels  | 60 Solar panels   |
| SIDE A (cm)   | 670   | 837   | 1005  | 1340   | 1675  |
| SIDE B (cm)   | 626   | 626   | 626   | 626  | 626   |


The dimensions of the structure can be tailored to meet customer’s needs. The sizes on the table are based on a panel measuring 1660 mm x 990 mm. The structure with anchor plates requires a foundation system for anchoring to the ground.

PENSILSOLE MIDDLE  
STRUCTURE DIMENSIONS



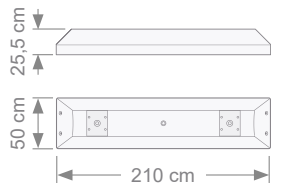
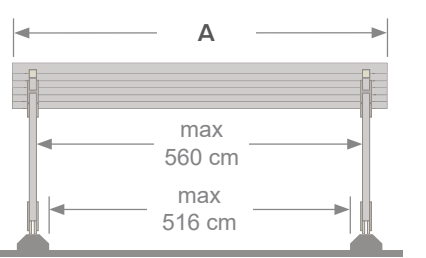
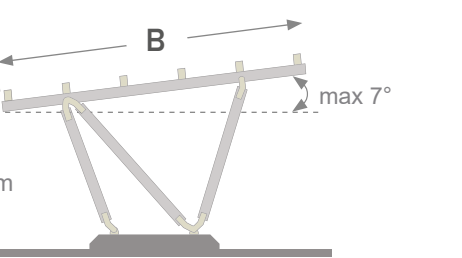





120 Kg/m<sup>2</sup>

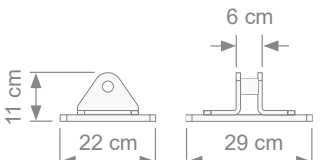
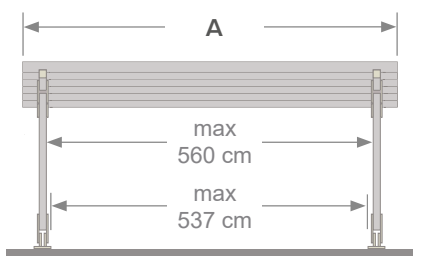
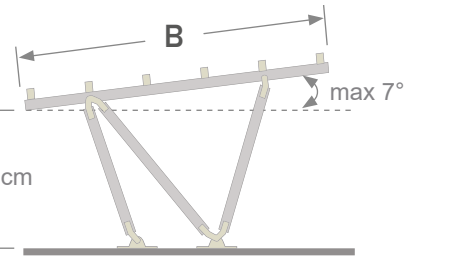





SNOW LOAD  
Snow action on the roof  
(Eurocode 1-3)



100 Km/h

WIND RESISTANCE  
Terrain category III (Eurocode 1-4)


| PENSILSOLE MIDDLE WITH BALLASTS   |   |   |   |   |   |
|---|---|---|---|---|---|
| <div><div><div>Concrete ballast and sandblasted white granite finish</div><div></div></div><div></div><div></div><div>parking space = max 258 cm</div></div> |   |   |   |   |   |
| MAX DIMENSIONS  |  |  |  |  |  |
|   | 2 PARKING LOTS  | 3 PARKING LOTS  | 4 PARKING LOTS  | 5 PARKING LOTS  | 6 PARKING LOTS  |
|   | 2 Ballasts  | 2 Ballasts  | 2 Ballasts  | 3 Ballasts  | 3 Ballasts  |
|   | 20 Solar panels   | 25 Solar panels   | 30 Solar panels   | 45 Solar panels   | 50 Solar panels   |
| SIDE A (cm)   | 670   | 837   | 1005  | 1508  | 1675  |
| SIDE B (cm)   | 520   | 520   | 520   | 520   | 520   |

| PENSILSOLE MIDDLE WITH ANCHOR PLATES   |   |   |   |   |   |
|--|---|---|---|---|---|
| <div><div><div>Hot-dip galvanized and painted steel plate on reinforced concrete foundation</div><div></div></div><div></div><div></div><div>parking space = max 268 cm</div></div> |   |   |   |   |   |
| MAX DIMENSIONS   |  |  |  |  |  |
|  | 2 PARKING LOTS  | 3 PARKING LOTS  | 4 PARKING LOTS  | 5 PARKING LOTS  | 6 PARKING LOTS  |
|  | 4 Anchor plates   | 4 Anchor plates   | 4 Anchor plates   | 6 Anchor plates   | 6 Anchor plates   |
|  | 20 Solar panels   | 25 Solar panels   | 30 Solar panels   | 45 Solar panels   | 50 Solar panels   |
| SIDE A (cm)  | 670   | 837   | 1005  | 1508  | 1675  |
| SIDE B (cm)  | 520   | 520   | 520   | 520   | 520   |


The dimensions of the structure can be tailored to meet customer’s needs. The sizes on the table are based on a panel measuring 1660 mm x 990 mm. The structure with anchor plates requires a foundation system for anchoring to the ground.



PENSILSOLE CANTILEVER  
STRUCTURE DIMENSIONS



120 Kg/m<sup>2</sup>



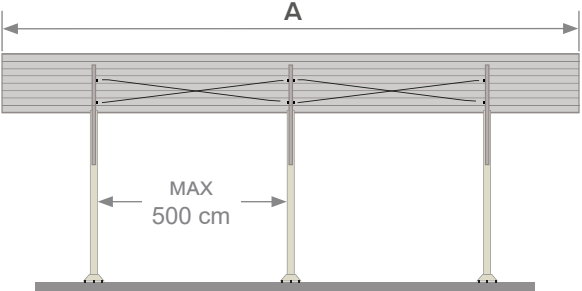
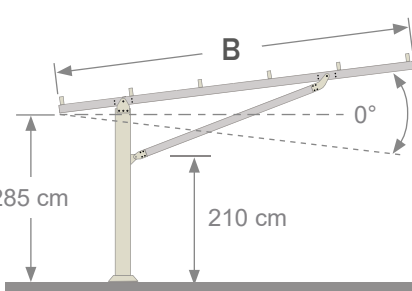
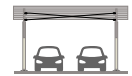




100 Km/h

SNOW LOAD

Snow action on the roof  
(Eurocode 1-3)

WIND RESISTANCE

Terrain category III (Eurocode 1-4)

| PENSILSOLE CANTILEVER   |   |   |   |  |   |
|---|---|---|---|--|---|
| <div><div><div>A</div><div>MAX 500 cm</div><div>parking space = 250 cm</div></div><div><div>B</div><div>285 cm</div><div>210 cm</div><div>0° max ±7°</div></div></div> |   |   |   |  |   |
| MAX DIMENSIONS  |  |  |  |  |  |
|   | 2 PARKING LOTS  | 3 PARKING LOTS  | 4 PARKING LOTS  | 5 PARKING LOTS   | 6 PARKING LOTS  |
|   | 2 Uprights  | 2 Uprights  | 3 Uprights  | 3 Uprights   | 4 Uprights  |
|   | 20 Solar panels   | 25 Solar panels   | 30 Solar panels   | 40 Solar panels  | 45 Solar panels   |
| SIDE A (cm)   | 670   | 837   | 1005  | 1508   | 1675  |
| SIDE B (cm)   | 520   | 520   | 520   | 520  | 520   |

The dimensions of the structure can be tailored to meet customer’s needs. The sizes on the table are based on a panel measuring 1660 mm x 990 mm. The structure requires a foundation system for anchoring to the ground.



WARRANTY AND QUALITY

- The products are CE certified. The booklet with the Declaration of Performance (DOP) accompanies the product until its installation is completed.
- The structures are structurally tested and comply with the loads required by current legislations, DM 17 January 2018 Technical Standards for Buildings (Norme Tecniche per le Costruzioni) NTC 2018 and UNI EN 1991
- The structural elements made of aluminum are covered by a 5-year guarantee\*
- Since 1990, we design and industrialize our collections completely in Italy, at the Poggio Renatico plants.

\* For further details about the warranty please see the terms and conditions of sale Giulio Barbieri S.r.l. indicated in the official price list.



## CONTACTS

Giulio Barbieri S.r.l.

Via Ferrara, 41  
44028 Poggio Renatico (FE) - Italy  
info@giuliobarbieri.it  
Tel. (+39) 0532 821511  
Fax (+39) 0532 821555

[www.giuliobarbieri.it](http://www.giuliobarbieri.it)



ADERENTE A  
**CONFINDUSTRIA EMILIA**  
**AREA CENTRO**  
Le imprese di Bologna,  
Ferrara e Modena

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[giuliobarbieri.it](http://giuliobarbieri.it)