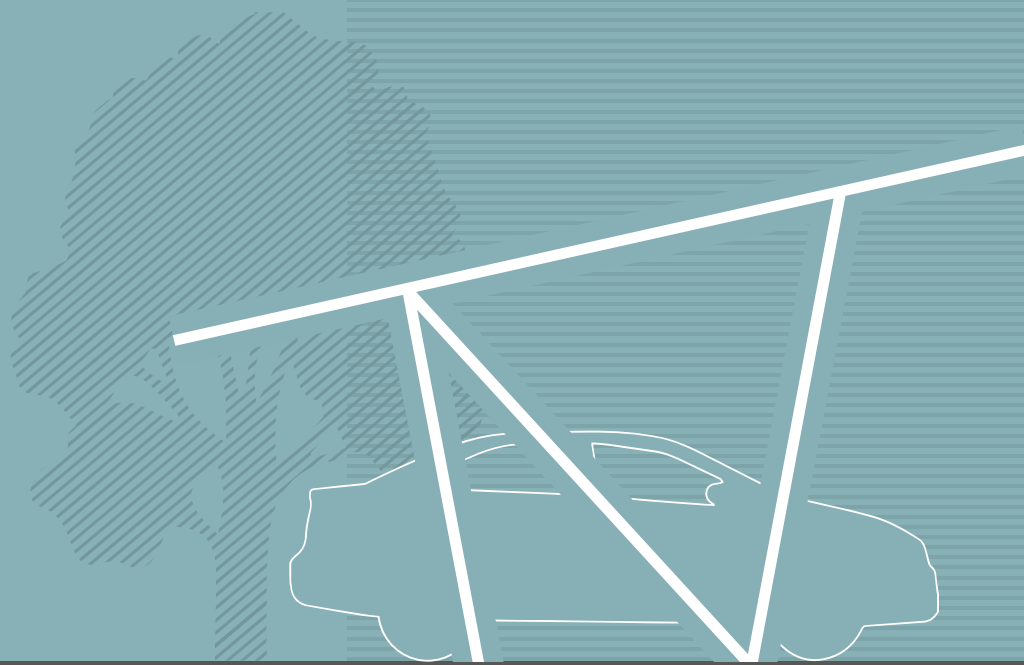


# CARPORT CATALOG





## 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.

P E N S I L A U T O



ALUMINIUM

CARPORT

# P E N S I L A U T O



The **Pensilauto** aluminum carport features either sandwich panel or galvanized steel trapezoidal sheet metal roofing. The design of pensilauto adheres to a precise optimized static scheme that allows the carport to achieve **high performance standards** by using profiles with a small cross section, providing an elegant and 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.

**Pensilauto** is also available with a **Cantilever** structure, that is, with the **roof cantilevered**, 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 hue range and matt finish give pensilauto a more refined appearance 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.







## 5 REASONS TO CHOOSE GIULIO BARBIERI PENSILAUTO

### 1 SNOW LOAD

The Pensilsole canopy is capable of supporting a snow load on the roof of 150 daN/m<sup>2</sup> in the maxi version and 120 daN/m<sup>2</sup> in the middle and cantilever versions.

### 2 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.

### 3 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.

### 4 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.

### 5 CUSTOMIZATION

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











70 LOCATION Genova, Italy CUSTOMER Private house MODEL Pensilauto Maxi



71 LOCATION Austria CUSTOMER Private house MODEL Pensilauto Cantilever





















80      LOCATION  
Modena, Italy      CUSTOMER  
Marazzi Group S.r.l.      MODEL  
Pensilauto Middle



LOCATION  
Varese, Italy      CUSTOMER  
Omec S.r.l.      MODEL  
Pensilauto Maxi









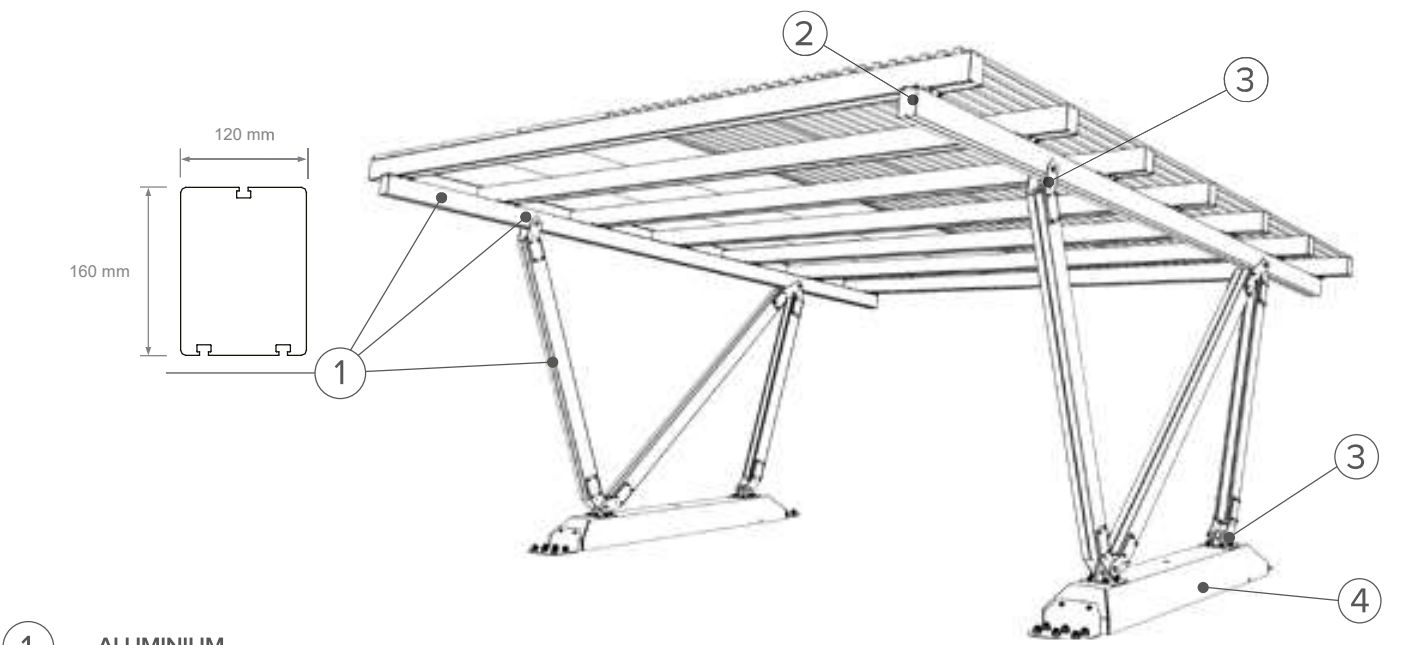
84      LOCATION  
Bellinzago Lombardo, Milan, Italy

CUSTOMER  
Public administration

MODEL  
Pensilauto Maxi



PENSILAUTO 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

**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

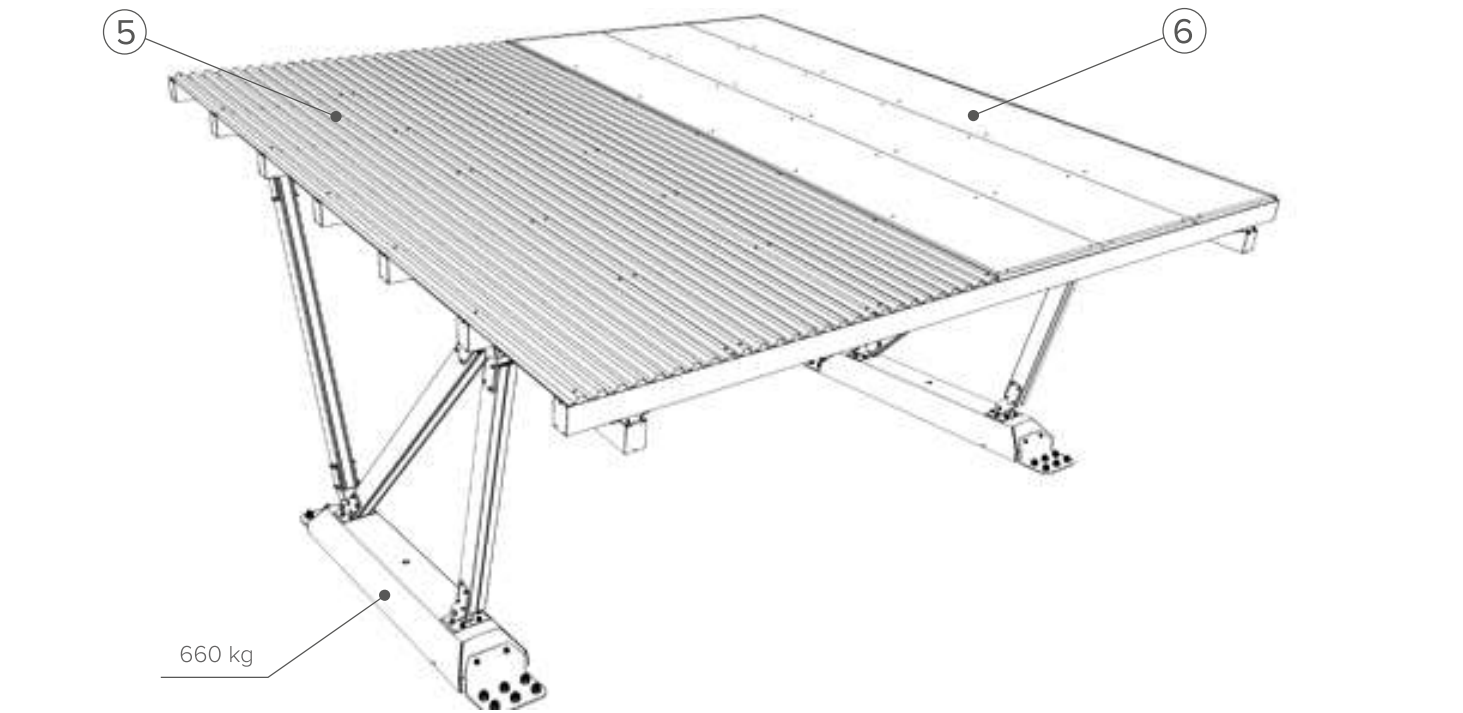
- 4

**CONCRETE BALLASTS WITH SANDBLASTED WHITE GRANITE FINISH**



**OPTIONAL PROTECTIVE CASING FOR STAKES OR ANCHORS**

Standard colour: ● RAL 7044



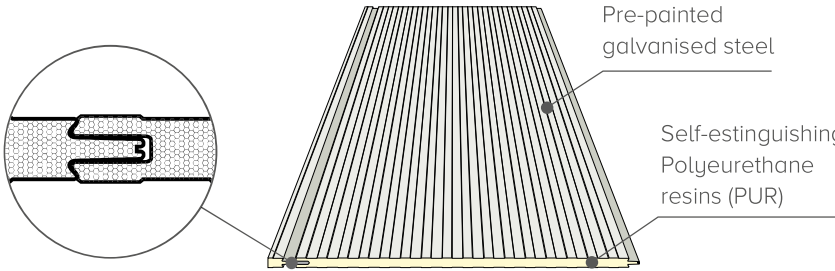
- 5

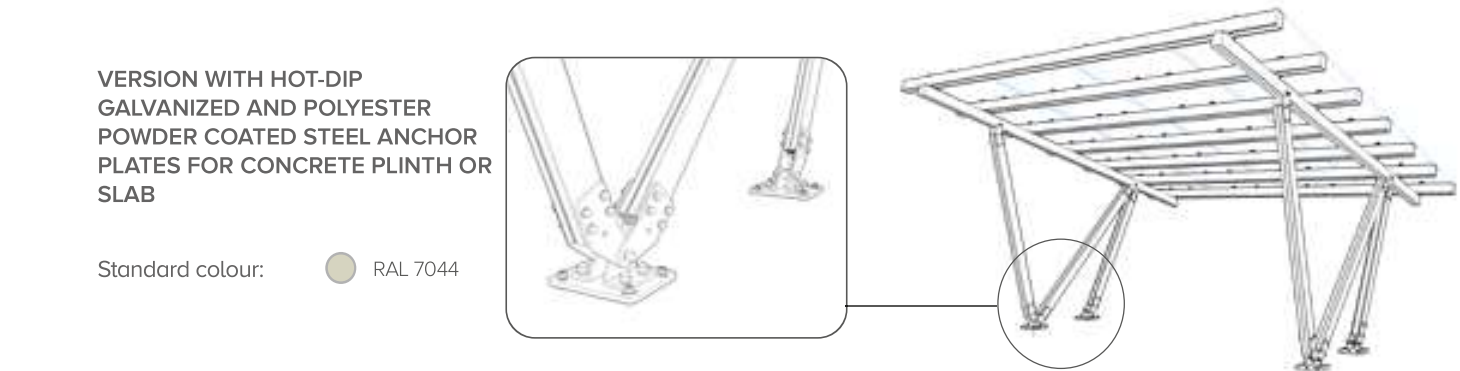
**GALVANISED AND PRE-PAINTED CORRUGATED ROOFING SHEETS**

Standard colour: ● RAL 9002
- 6

**MODULAR SANDWICH PANELS**

Standard colour: ● RAL 9002

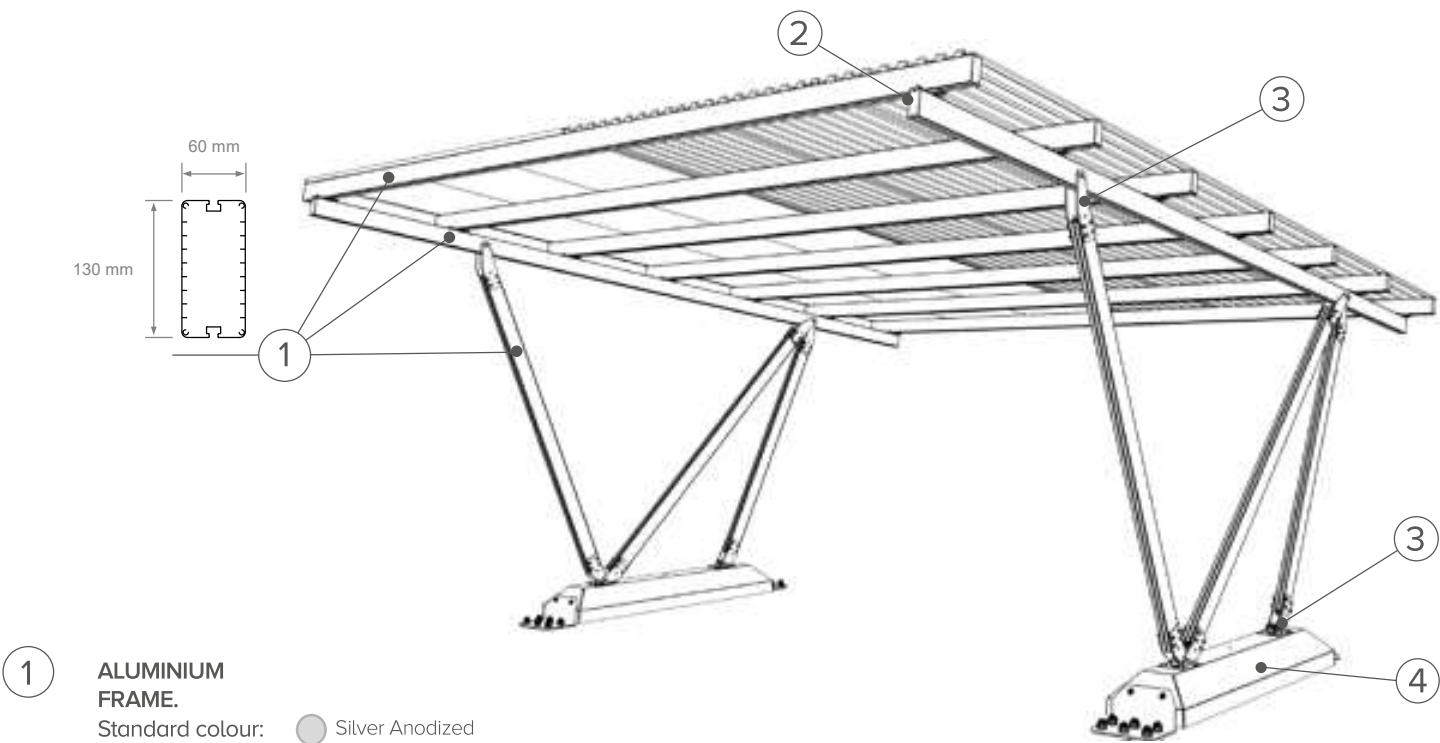




- VERSION WITH HOT-DIP GALVANIZED AND POLYESTER POWDER COATED STEEL ANCHOR PLATES FOR CONCRETE PLINTH OR SLAB**
- Standard colour: ● RAL 7044



PENSILAUTO 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 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 CONCRETE BALLASTS WITH SANDBLASTED WHITE GRANITE FINISH**

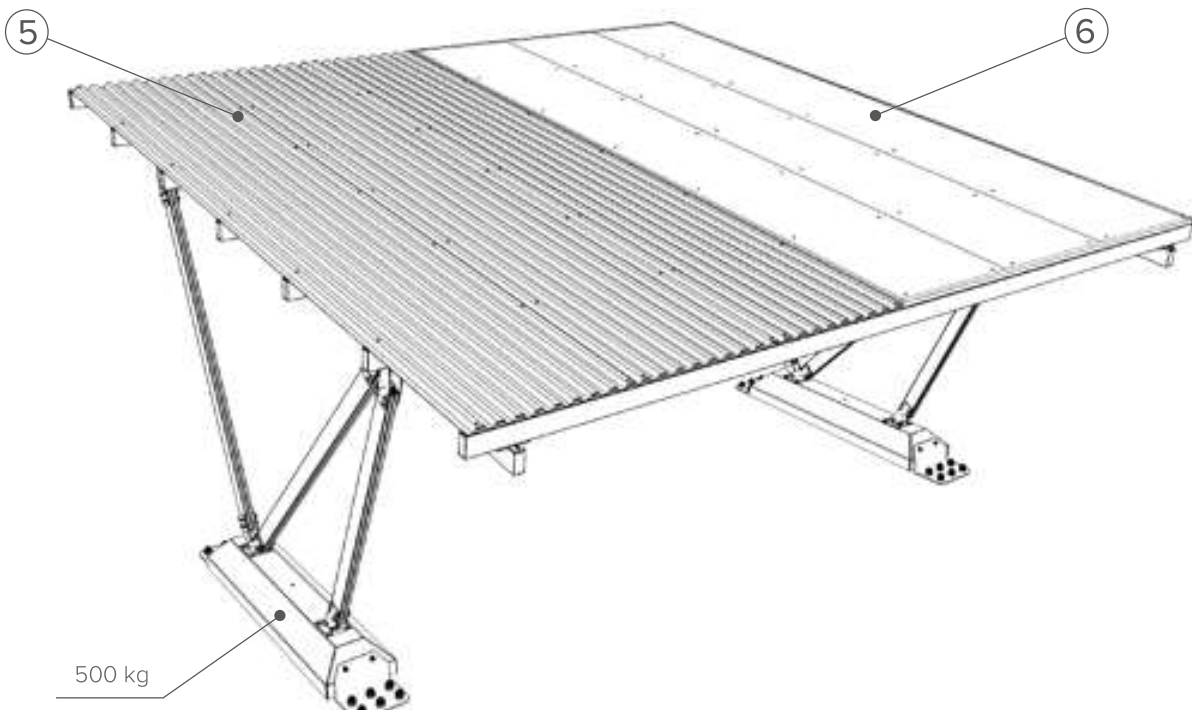
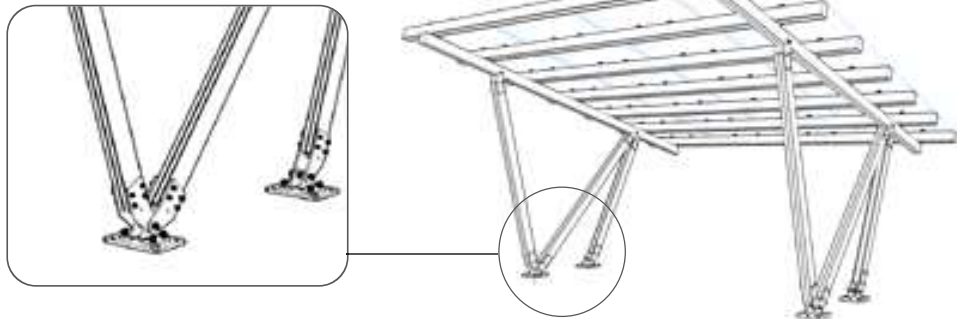


OPTIONAL  
PROTECTIVE CASING FOR STAKES  
OR ANCHORS

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

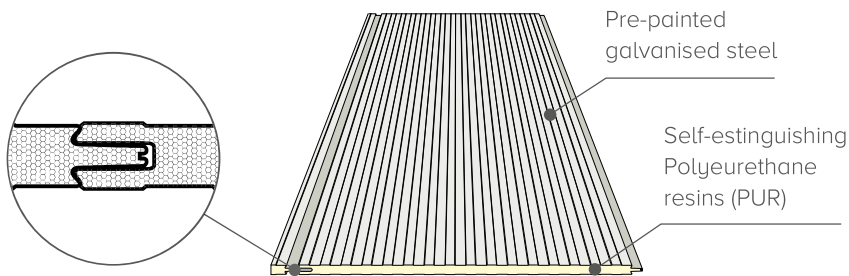


- 5 GALVANISED AND PRE-PAINTED CORRUGATED ROOFING SHEETS**

Standard colour:  RAL 9002

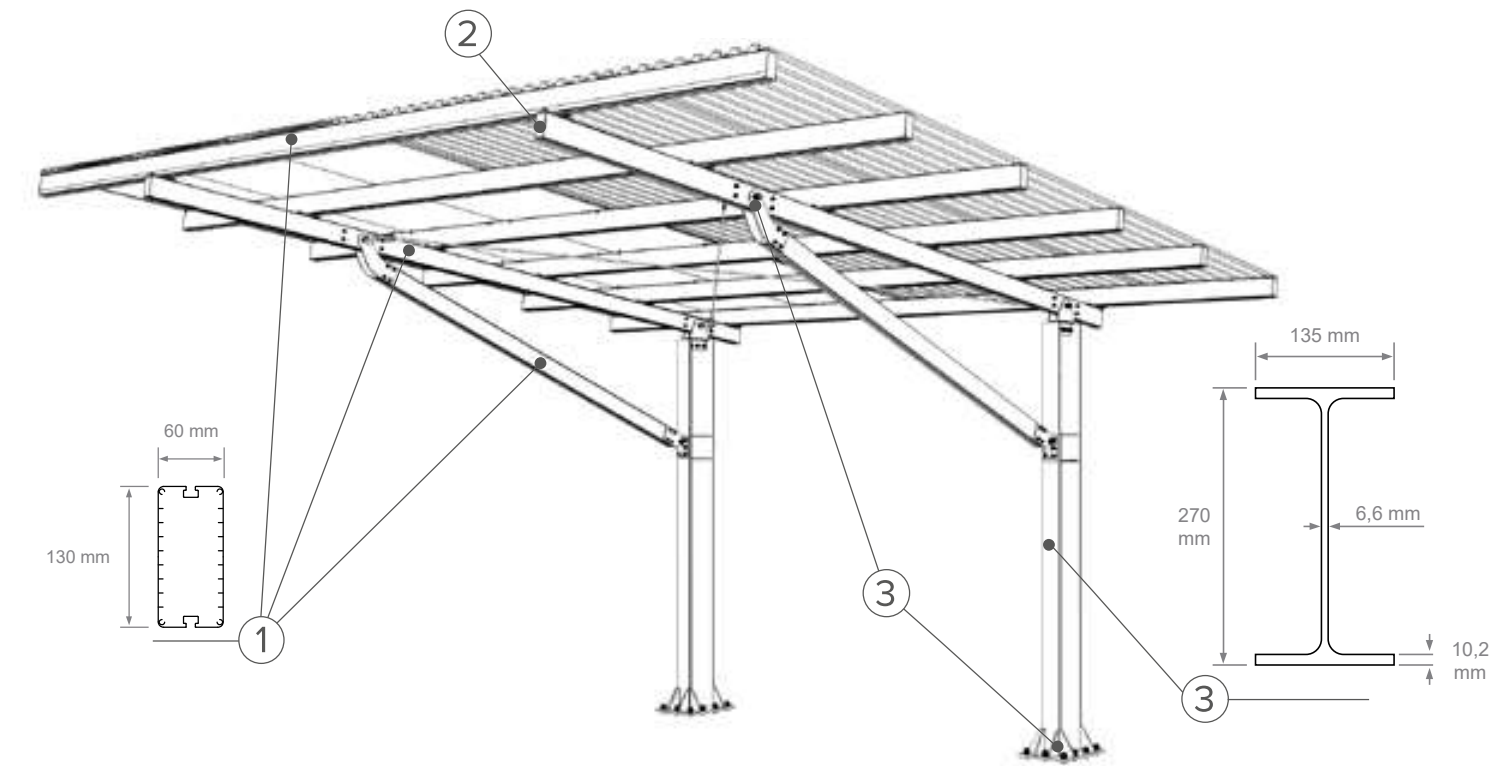
- 6 MODULAR SANDWICH PANELS**

Standard colour:  RAL 9002



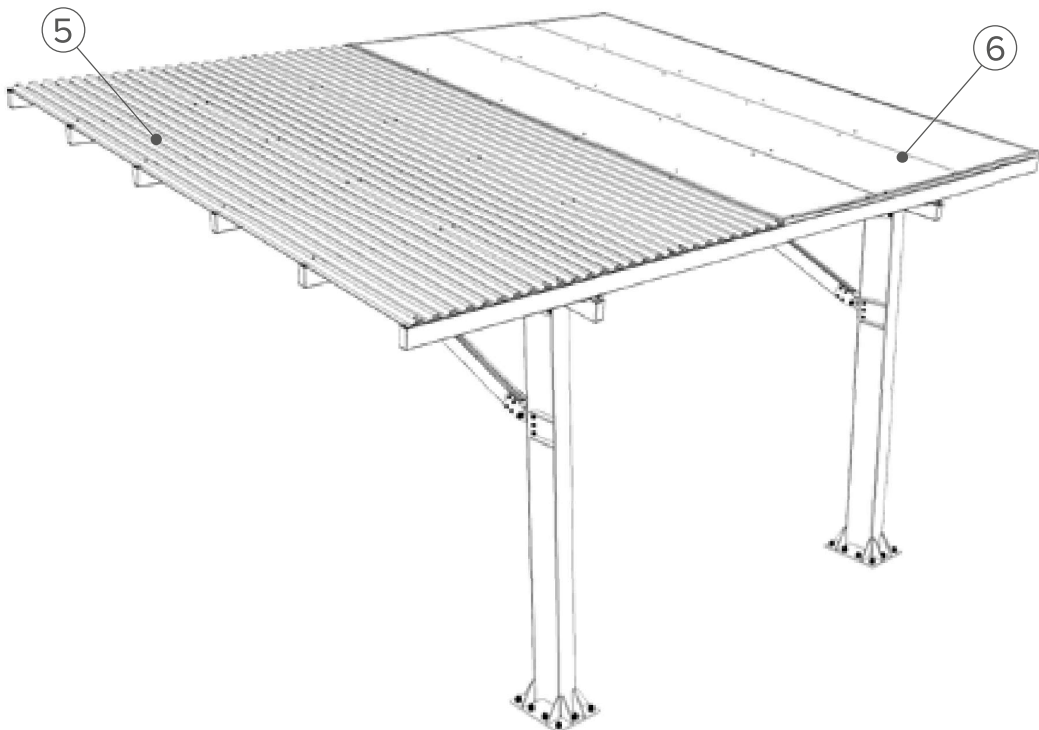


PENSILAUTO CANTILEVER - TECHNICAL DETAILS



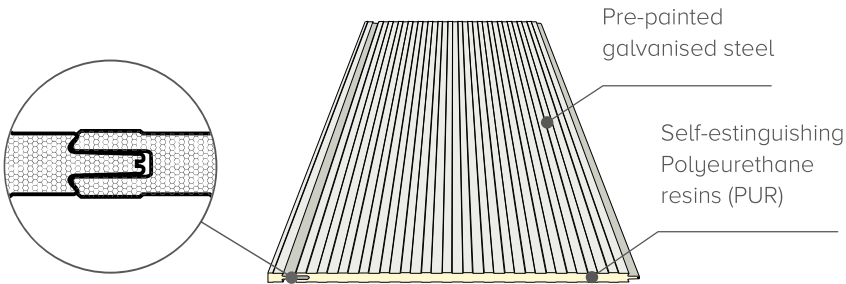
- 1 **ALUMINIUM FRAME.**  
Standard colour: Silver Anodized  
Non standard colours:  
Matt with rough finish - polyester powder coating  
 White Dove-Grey Dark-Brown  
Further RAL colours available in both matt and glossy smooth finish.

- 2 **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



- 5 **GALVANISED AND PRE-PAINTED CORRUGATED ROOFING SHEETS**  
Standard colour: RAL 9002

- 6 **MODULAR SANDWICH PANELS**  
Standard colour: RAL 9002





PENSILAUTO MAXI  
STRUCTURE DIMENSIONS



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



WIND RESISTANCE  
Terrain category III (Eurocode 1-4)

PENSILAUTO MAXI WITH BALLASTS					
<div><div><div>Concrete ballast and sandblasted white granite finish</div><div><div><div>50 cm</div><div>27 cm</div></div><div><div>245 cm</div></div></div><div><div><div>max 588 cm</div><div>max 550 cm</div></div></div><div><div>A</div><div>parking space = max 275 cm</div></div><div><div><div>B</div><div>max 15°</div><div>250 cm</div></div></div></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
SIDE A (cm)	600	850	1070	1400	1600
SIDE B (cm)	600	600	600	600	600

PENSILAUTO MIDDLE  
STRUCTURE DIMENSIONS



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



WIND RESISTANCE  
Terrain category III (Eurocode 1-4)


PENSILAUTO MIDDLE WITH BALLASTS					
<div><div><div>Concrete ballast and sandblasted white granite finish</div><div><div><div>25,5 cm</div><div>50 cm</div></div><div><div>210 cm</div></div></div><div><div><div>max 560 cm</div><div>max 516 cm</div></div></div><div><div>A</div><div>parking space = max 258 cm</div></div><div><div><div>B</div><div>max 7°</div><div>230 cm</div></div></div></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
SIDE A (cm)	600	825	1000	1400	1600
SIDE B (cm)	500	500	500	500	500

PENSILAUTO MAXI WITH ANCHOR PLATES					
<div><div><div>Hot-dip galvanized and painted steel plate on reinforced concrete foundation</div><div><div><div>17 cm</div><div>12 cm</div><div>36 cm</div><div>36 cm</div></div><div><div>max 588 cm</div><div>max 564 cm</div></div><div><div>A</div><div>parking space = max 282 cm</div></div><div><div><div>B</div><div>max 15°</div><div>250 cm</div></div></div></div></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
SIDE A (cm)	600	850	1070	1400	1600
SIDE B (cm)	600	600	600	600	600


PENSILAUTO MIDDLE WITH ANCHOR PLATES					
<div><div><div>Hot-dip galvanized and painted steel plate on reinforced concrete foundation</div><div><div><div>11 cm</div><div>6 cm</div><div>22 cm</div><div>29 cm</div></div><div><div>max 560 cm</div><div>max 537 cm</div></div><div><div>A</div><div>parking space = max 268 cm</div></div><div><div><div>B</div><div>max 7°</div><div>230 cm</div></div></div></div></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
SIDE A (cm)	600	825	1000	1400	1550
SIDE B (cm)	500	500	500	500	500



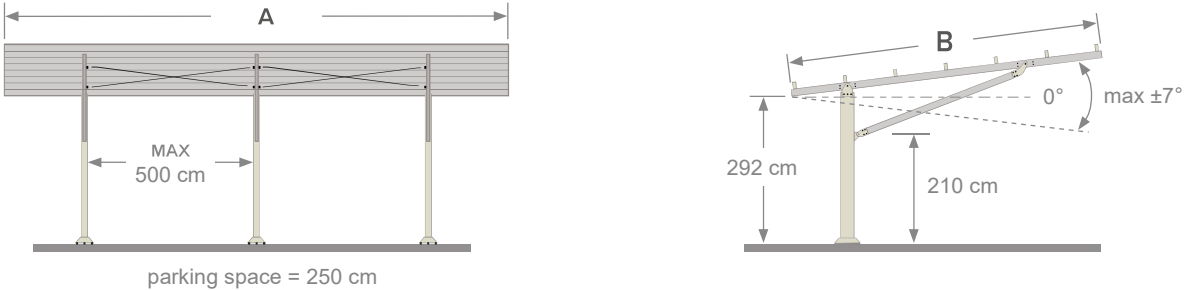
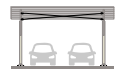
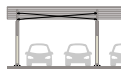



PENSILAUTO CANTILEVER  
STRUCTURE DIMENSIONS



**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)

PENSILAUTO CANTILEVER					
<div><div><div>Diagram illustrating the dimensions of the Pensilauto Cantilever structure. Side A shows the horizontal span with a maximum of 500 cm between uprights and a parking space of 250 cm. Side B shows the vertical height of the structure, with a maximum of 292 cm and a minimum of 210 cm, and a maximum tilt angle of ±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	4 Uprights	4 Uprights
SIDE A (cm)	600	825	1000	1250	1500
SIDE B (cm)	500	500	500	500	500

The dimensions of the structure can be tailored to meet customer’s needs. The sizes on the table are based on a panel measuring 1722 mm × 1134 mm.. The structure with anchor plates 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.
- Fireproofing certificates are supplied for each type of tarp.
- 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.



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www.giuliobarbieri.it



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The information regarding the Pergole and Vele Giulio Barbieri contained in this catalog may change as a result of the finalization of the commercial offer.



1-300-1-22-B



GIULIO BARBIERI

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