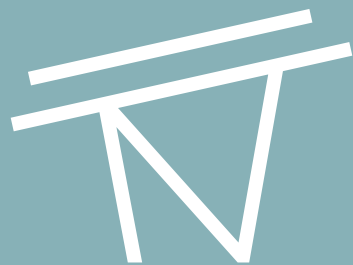


CATALOG

PENSILSOLE
S O L A R
P O W E R



VISION

We are committed to creating a future in which every human-inhabited space is characterized by architectures that meet its real needs and can establish a harmonious and symbiotic relationship with the surrounding world through intelligent design and the integration of clean energy sources. We envision a world where waste reduction, product durability, and their eco-sustainable nature form the foundations of a new way of inhabiting the planet.

MISSION

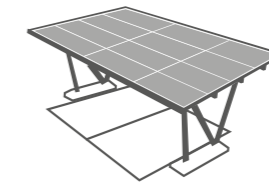
Our identity is rooted in the area near Ferrara, a land of Renaissance culture, where human life is harmoniously intertwined with that of the land and its fruits. Our mission is to innovate tradition without disrupting its cornerstones, promoting harmony with nature by proposing ethical and human-centric solutions that can integrate renewable energy sources. Our goal is to provide intelligent, highly functional, and aesthetically satisfying solutions that give specific answers for individual needs, avoiding homogeneity.



PHOTOVOLTAIC CARPORT

P E N S I L S O L E

S O L A R • P O W E R



Pensilsole Solar Power is a 2 parking spaces carport designed to support photovoltaic panels. Pensilsole is an extremely versatile structure capable of accommodating the panel of the client's choice. The design of Pensilsole adheres to a precise optimized static pattern that allows the canopy to achieve high performance standards using profiles of compact cross-section, resulting in an elegant and minimal aesthetic. Ground anchoring can be achieved through above-ground reinforced concrete weights that do not require foundation preparation, significantly reducing the time and costs required for installation. Upon request, the structure can still be installed using plates anchored to a foundation. Pensilsole is also available with a unique cantilever support type, with overhanging coverage supported by steel columns fixed to a foundation. Upon request, the aluminum carport can be customized with a wide range of colors and finishes.



5

REASONS TO CHOOSE PENSILSOLE SOLAR POWER



1 PHOTOVOLTAIC ENERGY

Pensilsole Solar Power is a car canopy that can accommodate photovoltaic panels of any type and size available on the market. There is no need for any additional superstructure to house the panels, as Pensilsole is designed to seamlessly integrate them directly.



2 QUICK INSTALLATION TIME

Pensilsole Solar Power is installed quickly, as the structural components are delivered pre-assembled. Quick attachment of PV panels on Pensilsole Solar Power 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 structure is 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 is customizable in size and finish.



5 LIMITED MAINTENANCE

Maintenance of Pensilsole Solar Power 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.





TECHNICAL DETAILS



STRUCTURE'S COLOR

Standard colour:

● Silver Anodized

Non standard colours:

○ Matt-Rough finish

○ White

● Dove-Grey

● Dark-Brown

STANDARD COLOUR OF THE CAPS AND PLATES

Smooth finish

● Ral 7044

Further RAL colours available in both matt and glossy smooth finish

STRUCTURE DIMENSIONS

PENSILSOLE SOLAR POWER WITH BALLASTS

WIND RESISTANCE
Terrain category III
(Eurocode 1-4)

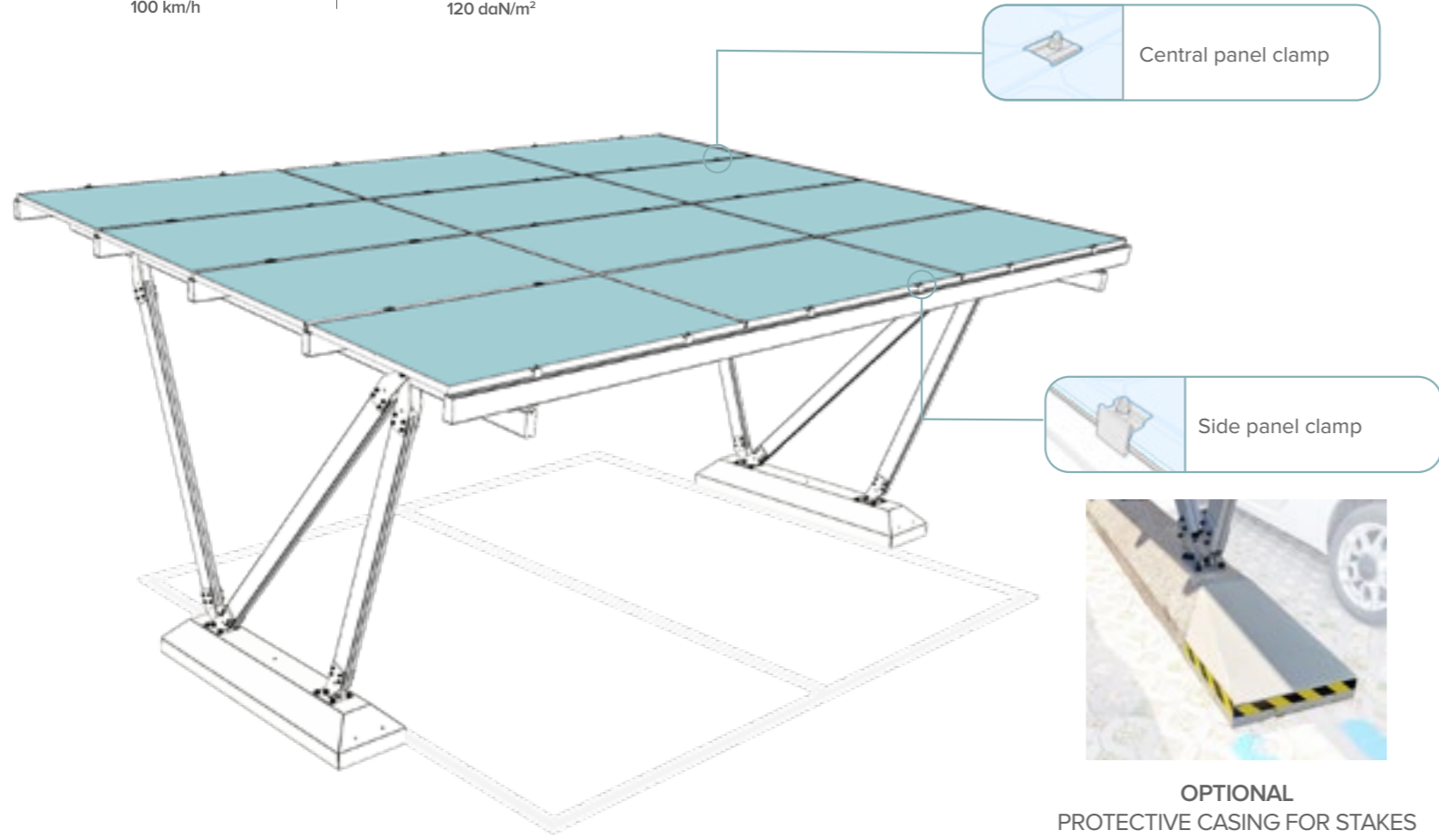


100 km/h

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

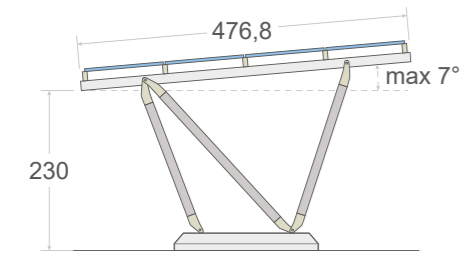


120 daN/m²

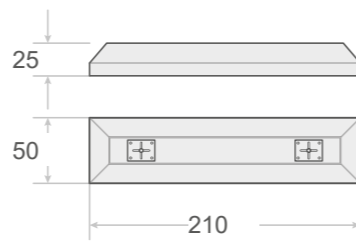
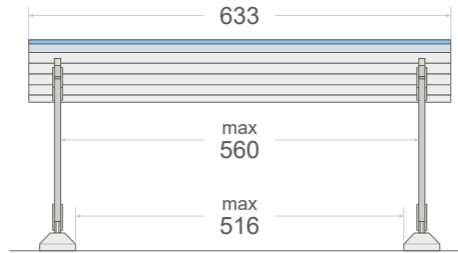


OPTIONAL
PROTECTIVE CASING FOR STAKES
OR ANCHORS

Standard colour: ● RAL 7044



Dimensions expressed in cm



Concrete ballast and sandblasted white granite finish

PENSILSOLE SOLAR POWER WITH ANCHOR PLATES

WIND RESISTANCE
Terrain category III
(Eurocode 1-4)

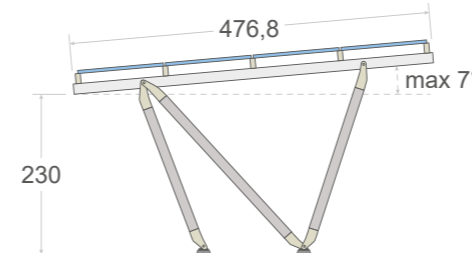
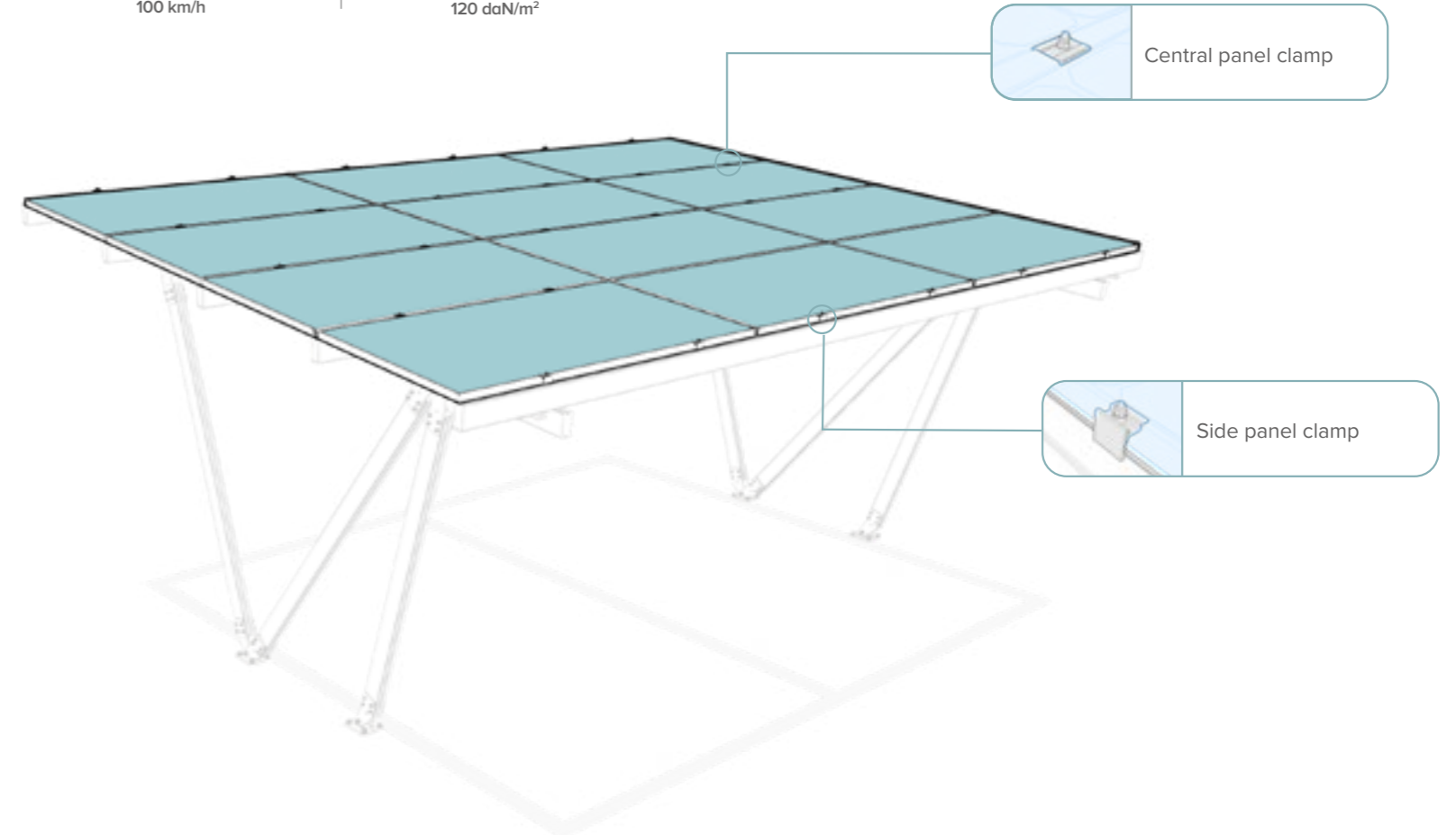


100 km/h

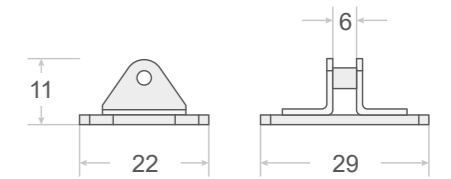
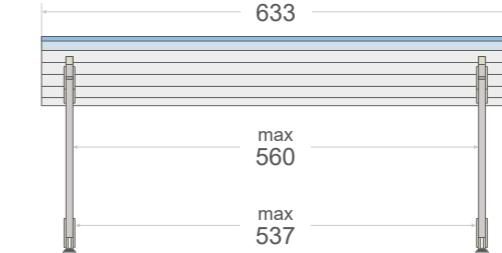
SNOW LOAD
Snow action on the roof
(Eurocode 1-3)



120 daN/m²



Dimensions expressed in cm



Hot-dip galvanized steel plate with a polyester powder coating.

NOTES: The structure requires a foundation system for anchoring to the ground.

PENSILSOLE SOLAR POWER CANTILEVER

WIND RESISTANCE
Terrain category III
(Eurocode 1-4)

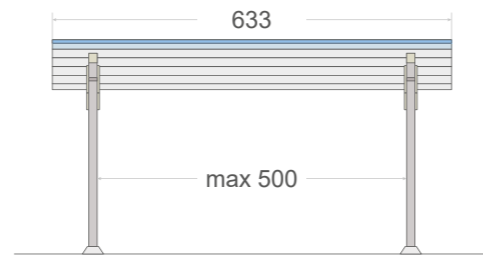
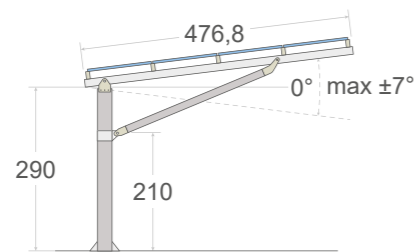
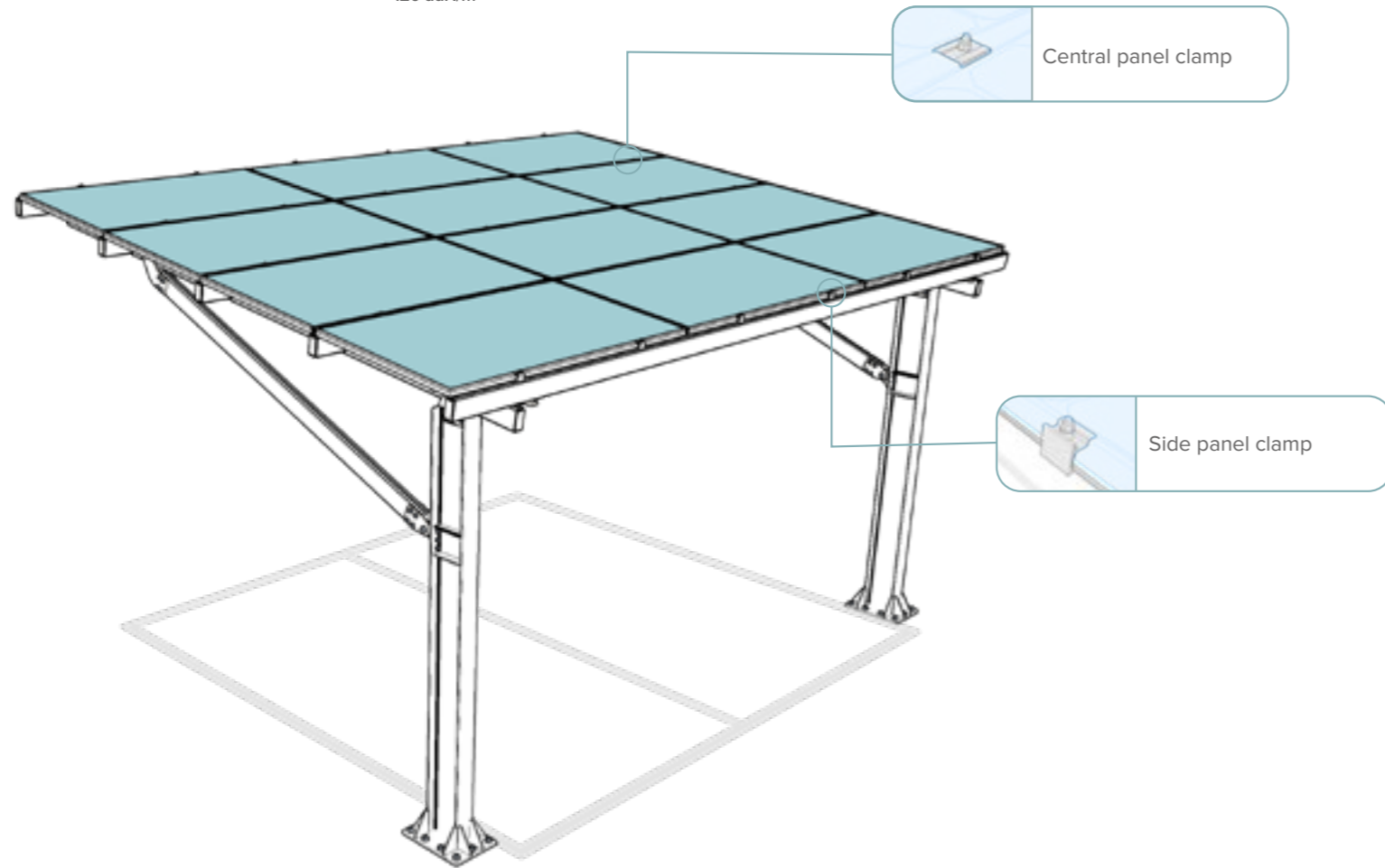


100 km/h

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



120 daN/m²



Dimensions expressed in cm

NOTES: 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.

Fireproofing certificates are supplied for each type of tarp.

The structures are structurally tested and comply with the loads required by current legislations EN 13782, 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

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

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