

SOLAR CARPORT MOUNTING SYSTEMS

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About Us

Proofx fastener technologies was established in Istanbul, which offering services completely according to the expectations and needs of its customers with solutions developed specifically for the fastener industry. As a company with patented products, Proofx specializes in fastener technologies, solar energy systems, lifelines, and roof and facade fasteners. It delivers these systems, developed by its in-house engineering teams in its R&D center in Istanbul and its factory in Kocaeli, to customers in Turkey and worldwide.



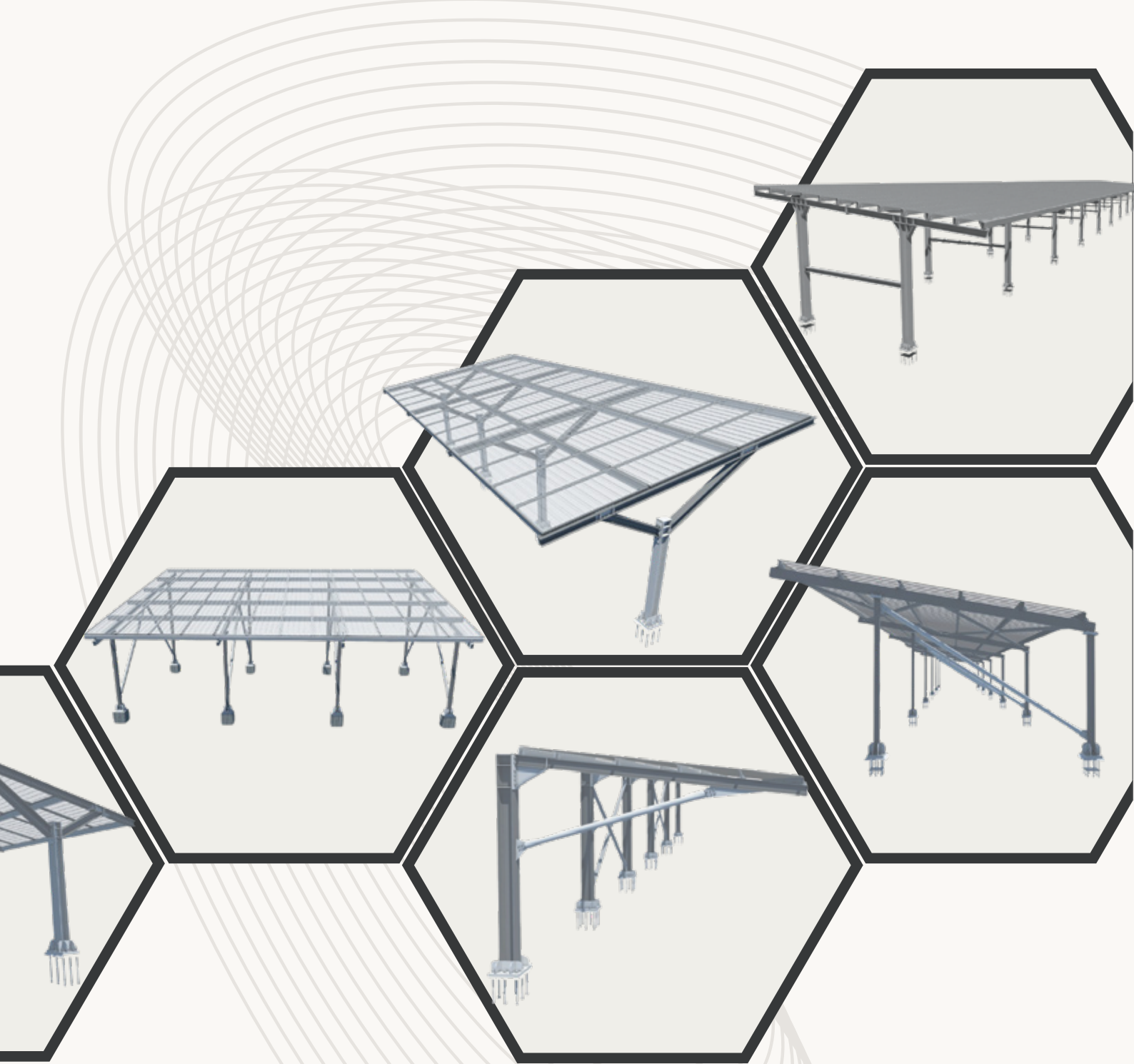
Proofx Company Provides

***Sustainable solution for
generating clean energy while
providing shelter for your vehicle***

Our team of expert engineers provides static project support with seamless implementation and optimal design. Our modern and aesthetically focused designs effortlessly combine functionality and style.



Project Based Designed Solar Carport Mounting Systems



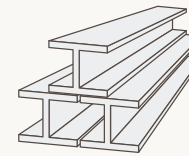
Specific solutions can be conducted to meet your unique project needs, considering the project location, vehicle type, terrain conditions, and specific requirements.

Technical Details of the Specially Designed Solar Carport Mounting Systems



Design Loads

- Solar Carport Mounting System designed considering the weight of the solar panels and any environmental factors unique to the project location such as wind, snow, earthquake, and temperature



Product Knowledge

- Mounting systems are designed with high-quality certified materials
- Produced from S235/S355 steel and coated with either hot-dip galvanize or electrostatic paint against corrosion



Standards

- Structural design calculations for the mounting systems are conducted in accordance with the latest Eurocodes (EN 1990 to EN 1998) and the associated European Norms (ENs), with the option to design using ANSI/AISC Standards



Design Dimensions

- The solar mounting systems are engineered with specific clearances and heights to accommodate a variety of vehicle types, including trucks, minibuses, and automobiles
- There is flexibility to customize dimensions according to the specific requirements of the project



Standard Packages for Solar
Carport Mounting Systems:
All-in-one box solutions

ONE CAR SOLAR CARPORT MOUNTING SYSTEMS



Contents of the box

- 4 Columns of the steel frame
- 2 Beams of the steel frame
- 6 Purlins of the steel frame
- 12 End-Clamps
- 12 Mid-Clamps
- Bolts, Nuts, Washer
- Anchorage Rods



The single-car carport box is compactly packaged and includes an assembly catalog inside.

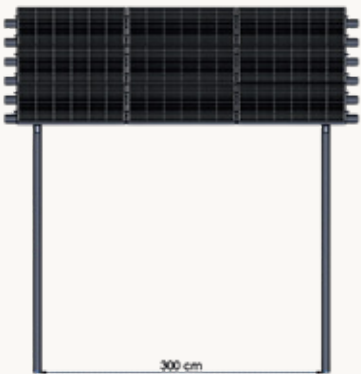
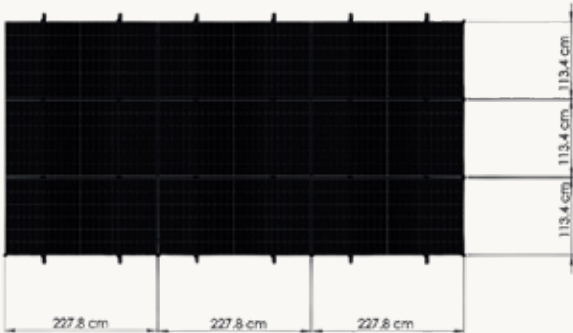
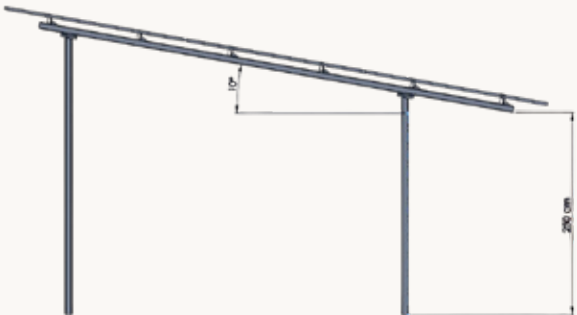
Technical Details of the Standard
Packages for Solar Carport Mounting
Systems: All-in-one box solutions

ONE-CAR SOLAR CARPORT MOUNTING SYSTEMS

Technical Detail

Slope	10 degree
Total Weight	430 kg
Dimentions	Minimum height of the carport 2.5 meter
Total Installed Power	4.91 kW
Panels	Suitable for 9 solar panel mounting
Wind Load	90 km/h (Acc. to National Annex of the assumed location)
Snow Load (Sk)	1 kN/m2
Service Life	50 years
Material	S235 Steel / coated with hot-dip galvanize

The carport models are designed based on the assumed location, and model and section details may vary accordingly. Additionally, customized packages can be created to meet specific location requirements.



Standard Packages for Solar Carport Mounting Systems:
All-in-one box solutions

TWO-CAR SOLAR CARPORT MOUNTING SYSTEMS



Contents of the box

- 4 Columns of the steel frame
- 2 Beams of the steel frame
- 6 Purlins of the steel frame
- 12 End-Clamps
- 24 Mid-Clamps
- Bolts, Nuts, Washer
- Anchorage Rods



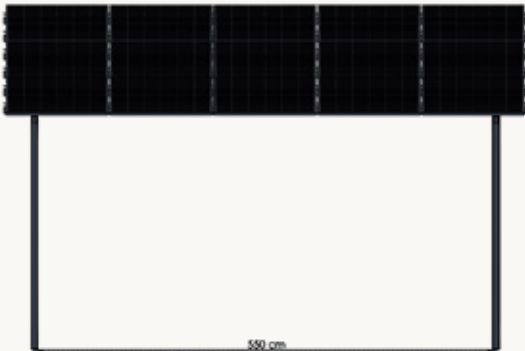
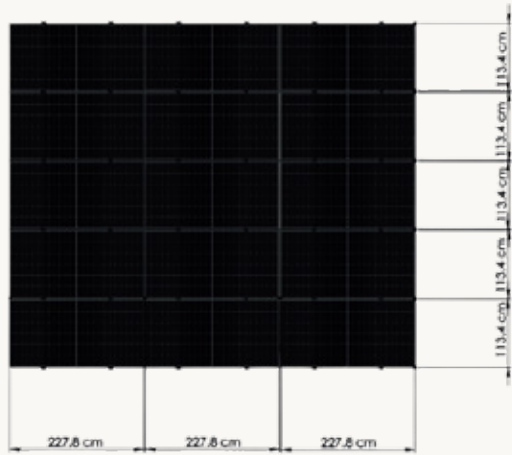
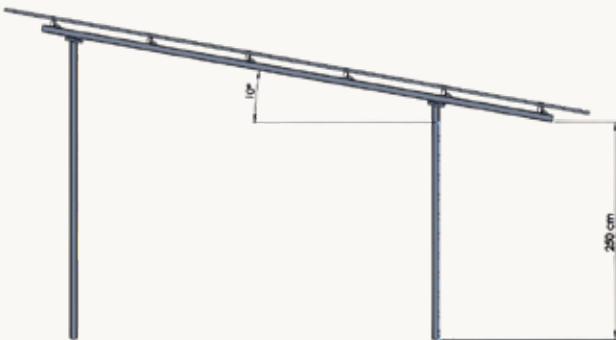
The two-car carport box is compactly packaged and includes an assembly catalog inside.

Technical Details of the Standard Packages for Solar Carport Mounting Systems:
All-in-one box solutions

TWO-CAR SOLAR CARPORT MOUNTING SYSTEMS

Technical Detail

Slope	10 degree
Total Weight	625 kg
Dimentions	Minimum height of the carport 2.5 meter
Total Installed Power	8.18 kW
Panels	Suitable for 15 solar panel mounting
Wind Load	90 km/h (Acc. to National Annex of the assumed location)
Snow Load (Sk)	1 kN/m2
Service Life	50 years
Material	S235 steel / coated with hot-dip galvanize

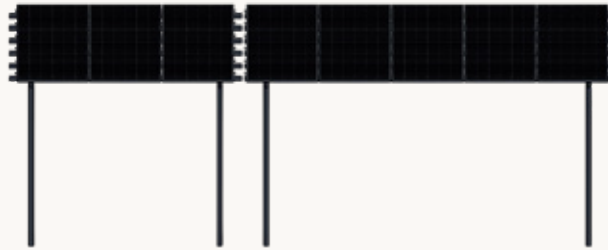


The carport models are designed based on the assumed location, and model and section details may vary accordingly. Additionally, customized packages can be created to meet specific location requirements. A four-car carport can be created by mounting two-car packages either side by side or symmetrically.



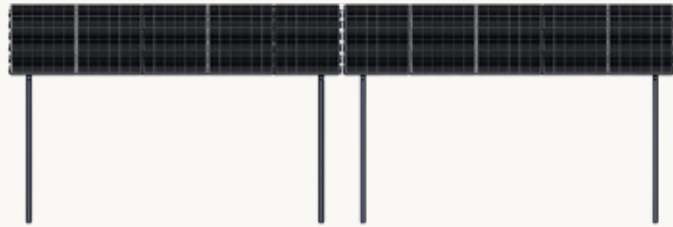
All-in-one box solutions: Options to Use Packages in Different Combinations

STANDARD PACKAGE COMBINATIONS



Three-Car Carport

Side by Side Mounting of
Two-Car+One Car Packages



Four-Car Carport

Back to Back Mounting of
Two-Car+Two-Car Packages



Four-Car Carport

Side by Side Mounting of
Two-Car+Two-Car Packages

The Standard Carport Packages can be installed in various combinations.
It is possible to obtain parking areas for three, four, or more cars

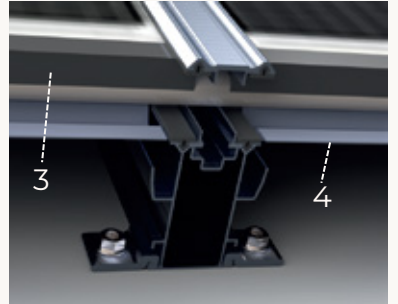
Waterproofing System for Solar Carport Mounting Systems

DUAL-STEP WATERPROOFING SYSTEM

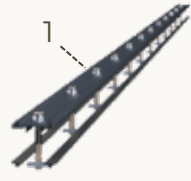

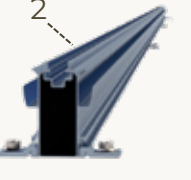
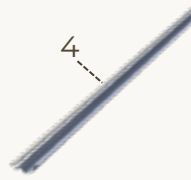
• The Waterproofing Systems is modular and can be applicable upon request for both Standard Package and Project Based Designed Solar Carport Mounting Systems

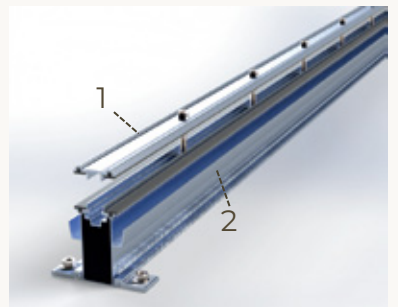
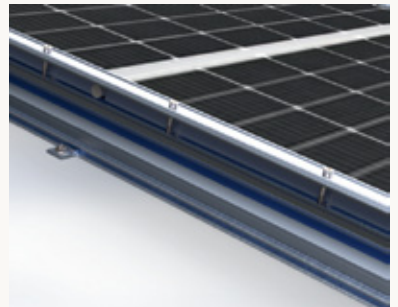
• The Dual-Step Waterproofing System is designed proper for Standard, Bifacial and Glass-Glass PV solar panel mounting

• The Waterproofing System is provided in two steps with the second step considered as backup



Dual Step Waterproofing System

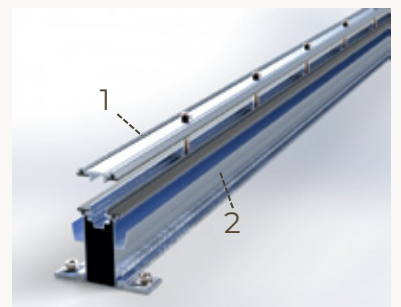
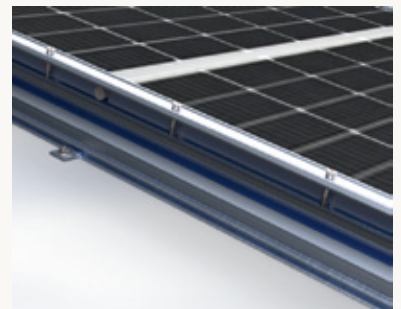
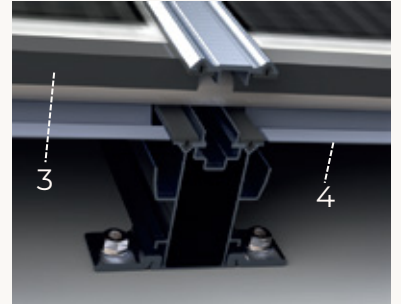
	Long Side of the Solar Panel	Short Side of the Solar Panel
Step 1	 Full length clamp	 Polyethylene join filler & silicone
Step 2	 Profile with water channel	 Short side water channel



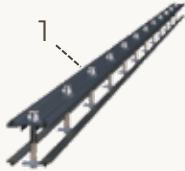

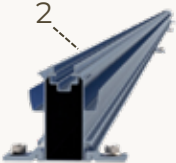
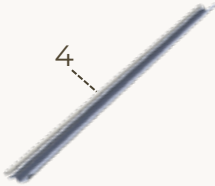
Waterproofing System for Solar Carport Mounting Systems

DUAL-STEP WATERPROOFING SYSTEM

- The Waterproofing Systems is modular and can be applicable upon request for both Standard Package and Project Based Designed Solar Carport Mounting Systems
- The Dual-Step Waterproofing System is designed proper for Standard, Bifacial and Glass-Glass PV solar panel mounting
- The Waterproofing System is provided in two steps with the second step considered as backup



Dual Step Waterproofing System

	Long Side of the Solar Panel	Short Side of the Solar Panel
Step 1	 <p>Full length clamp</p>	 <p>Polyethylene join filler & silicone</p>
Step 2	 <p>Profile with water channel</p>	 <p>Short side water channel</p>



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