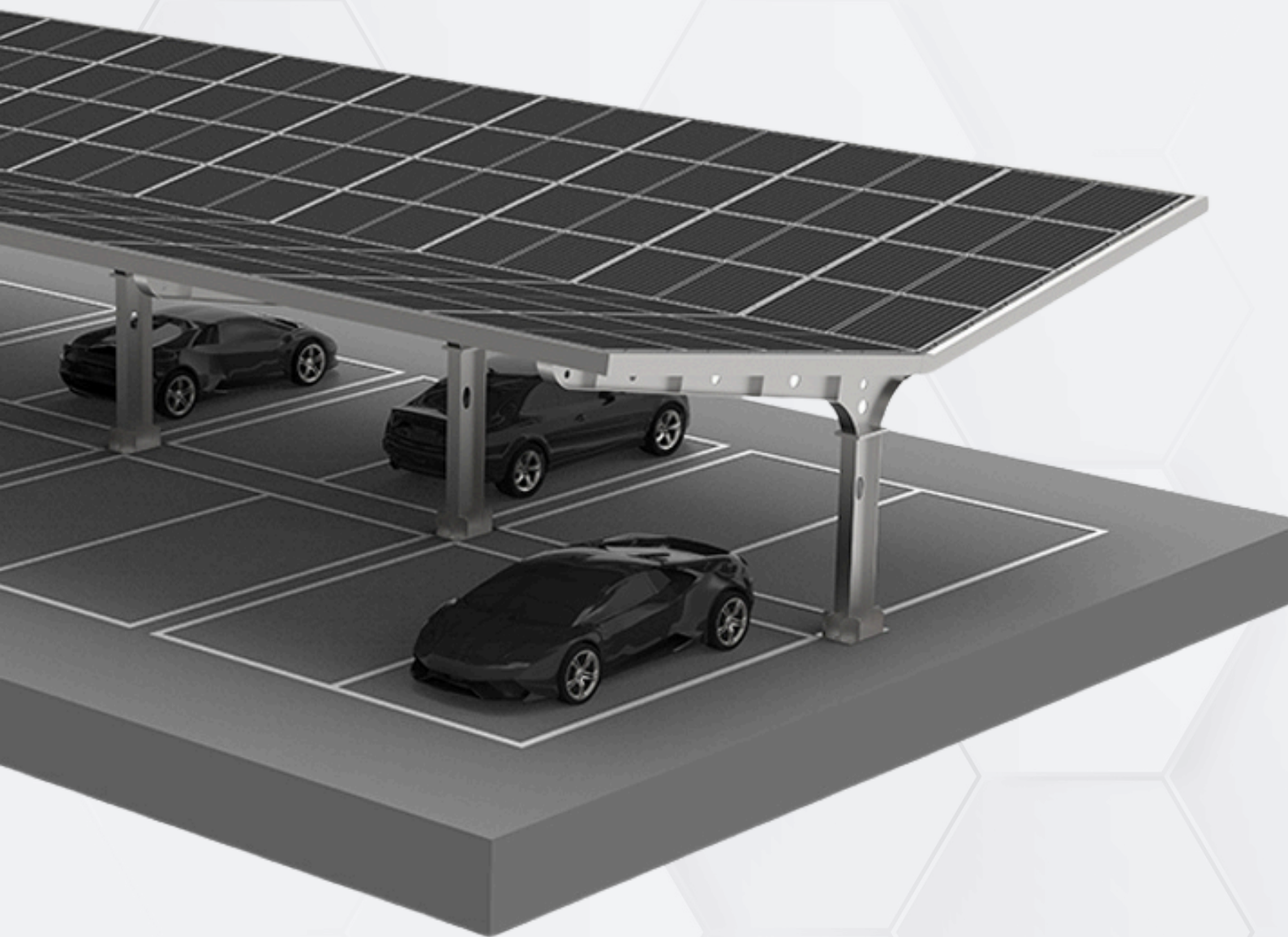




Product Specification

Steel Carport Mounting System

Double-Sided System



Proven Stability | Fully Waterproof | Great Appearance

Design:

Intelligent structural design
for extended service life

Waterproof:

Integrated portrait and
landscape water canals

OEM / ODM:

Custom designs and
specifications available

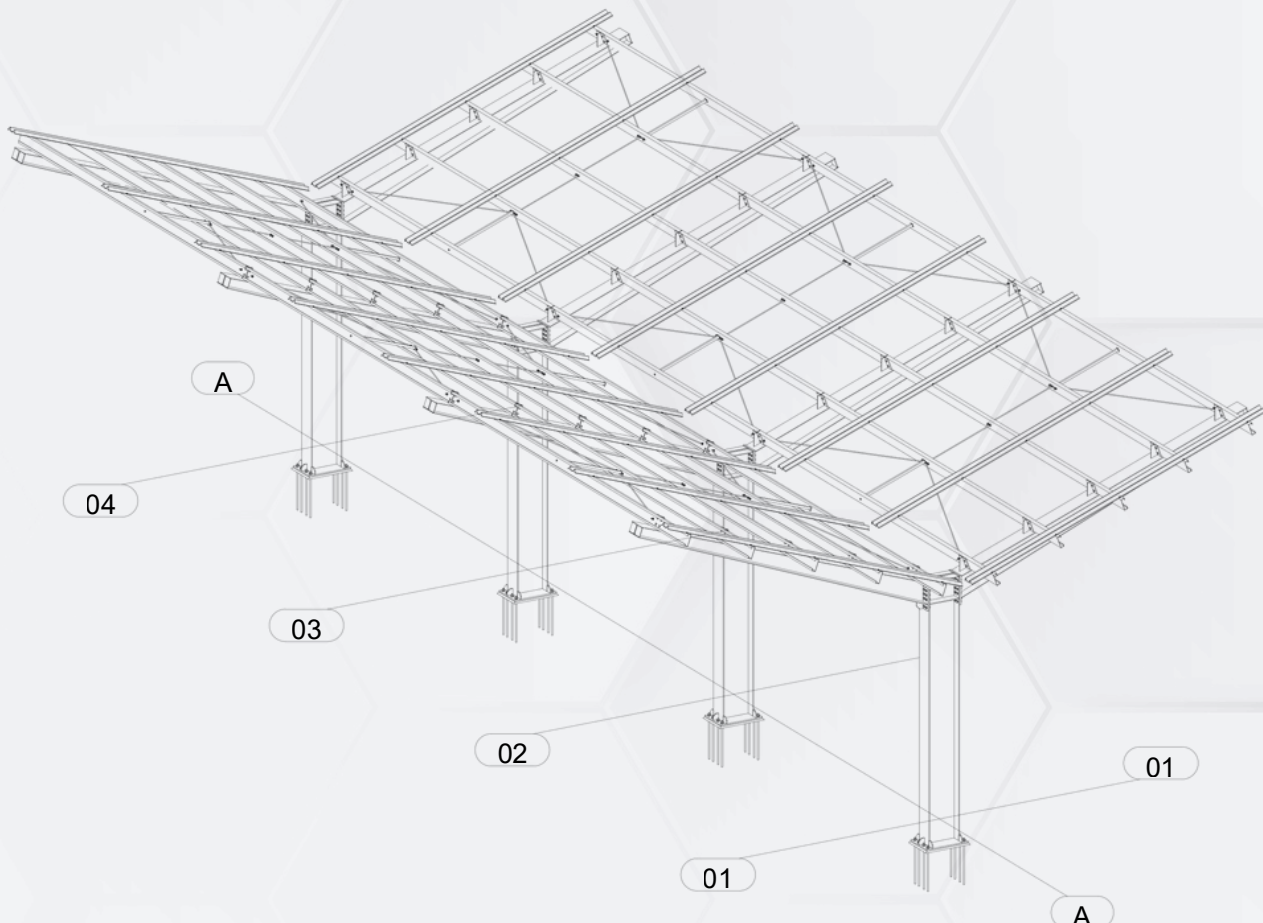


Product Overview

Name: ONENESS Double-Side Steel Carport

Description: A high-strength solar mounting solution designed for commercial and industrial and even residential parking areas. It combines reliable structural performance, efficient waterproofing, and safe installation while providing vehicle protection and clean energy generation.

BOM: Column H-350*150-6-10mm (Steel class S355, HDG80)
Column base plate with anchor rods (Steel class S355, HDG80)
Beam H-300*180-150-6-10mm (with purlin support plates) (Steel class S355, HDG80)
Purlins S355 ZAM310
Tie Rods (Steel class S355)
Horizontal braes (Steel class S355)
Main and secondary water channels (Steel class S355)
Fasteners (A2 - SUS304)

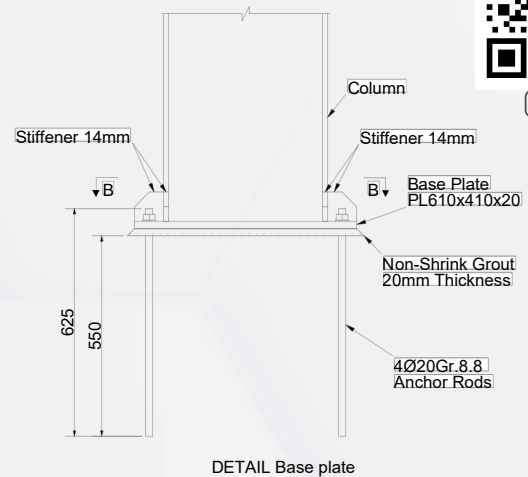




<http://> Web

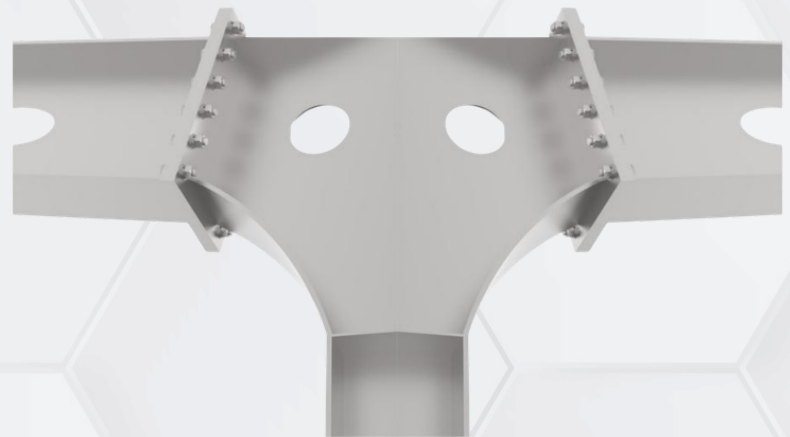
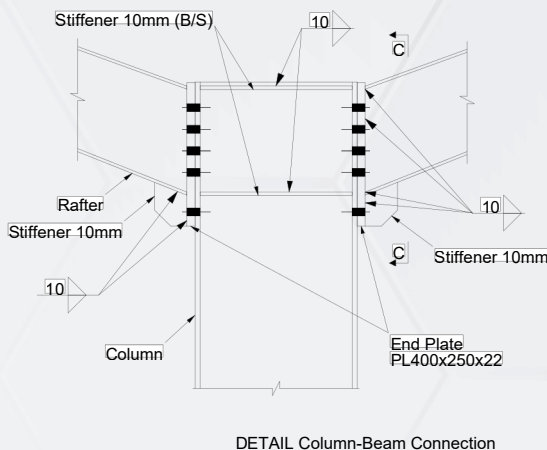
Column, Base Plate & Anchor Rods:

High-strength steel columns are engineered for superior load-bearing capacity and structural stability. The base plate creates a secure connection between the steel structure and concrete foundation, ensuring efficient load transfer and enhanced resistance to wind and snow loads. Anchor rods provide reliable fixation, accurate positioning which is contributing to the long-term safety and durability of the structure.



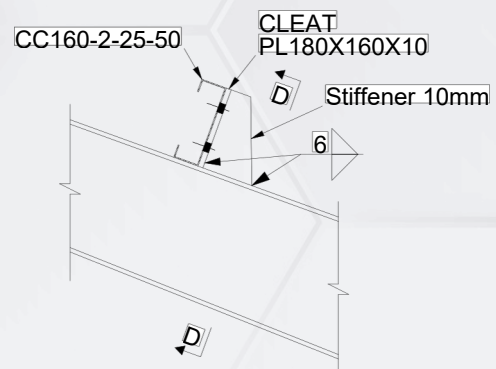
Column & Beam Connection:

The column-to-beam connection adopts a robust bolted plate design, ensuring high structural strength and stability. Precision-engineered connection plates with high-strength bolts and nuts provide reliable load transfer, easy installation, and efficient on-site assembly. The bolted connection system eliminates on-site welding which simplifies construction while maintaining long-term durability and structural performance.

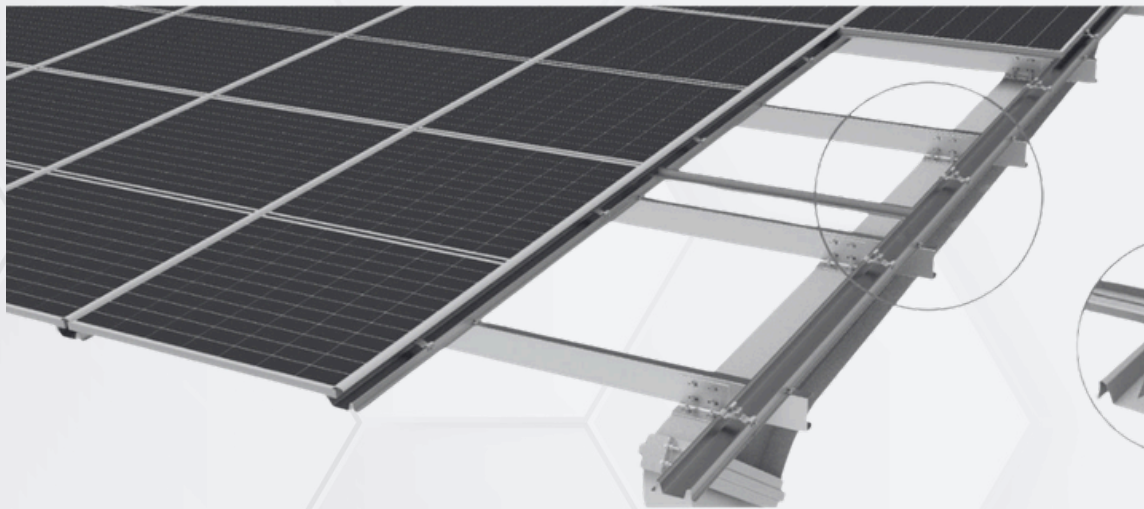


Beam & Purlin Support Plates:

Integrated purlin support plates provide a secure and stable connection between beams and purlins, ensuring accurate alignment and efficient load distribution and structural stability under various environmental loads.

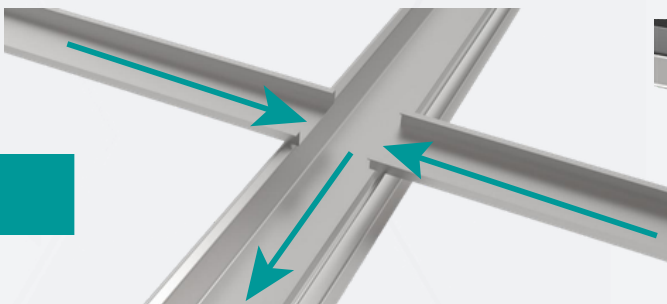


DETAIL Beam with Purlin Support Plate

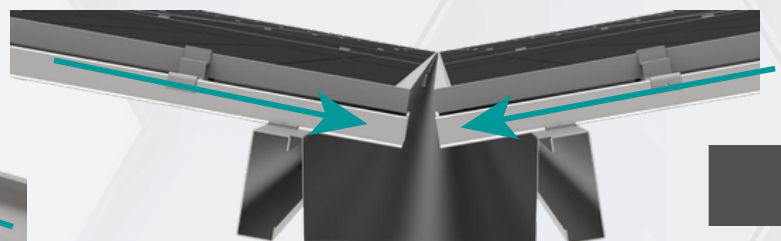


Water Drainage Channels:

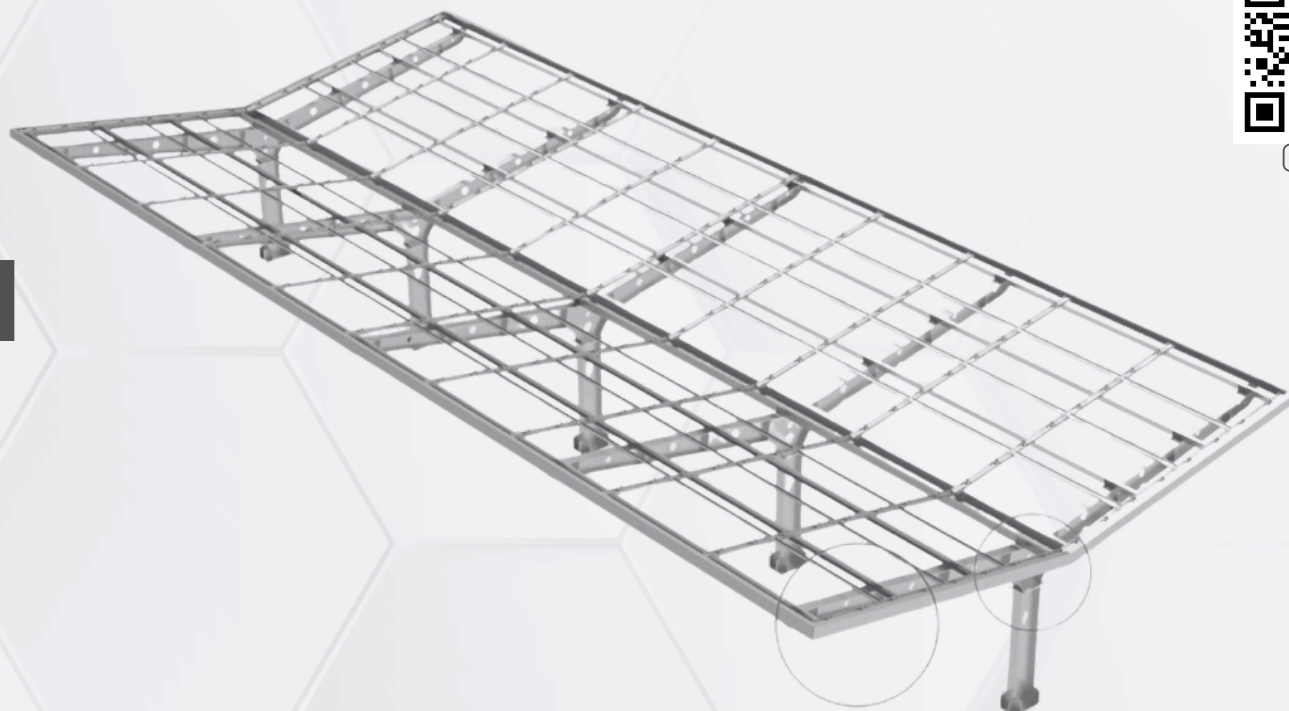
The integrated water drainage channels are designed to efficiently collect and guide rainwater from the PV module surface, providing reliable waterproof protection for the carport structure. Suitable for both portrait and landscape module layouts, the optimized drainage design ensures effective water flow, prevents water accumulation, and enhances long-term durability in various weather conditions. The seamless channel connection minimizes leakage risks and maintains a clean, durable appearance throughout the system's service life. For additional safety there could be rubber strip.



*Water will flow along the sink rail between the panels



*And flow out to the bottom

[http://](http://onenesspvsystems.com) Web

Advantages:

- Optimized steel design reduces material consumption
- Suitable for commercial and industrial parking areas
- Integrated waterproof drainage
- High resistance to wind and snow loads
- Low maintenance throughout the service life
- Compatible with most framed PV modules

Optional Features:

- EV charging integration
- Cable management
- LED lighting
- Drainage pipe options
- Different coating systems
- Custom colors (any RAL color)

