

PROJECT DESIGN INPUT SHEET

Project Design Input Sheet

Site wind profile

Snow zoning

Module datasheet

Corrosion class C3/C4/C5

Parking layout

Vehicle clearance

Foundation condition

Drainage requirement

Engineering Output Definition

Item	Specification
Design load envelope	Wind, snow and seismic basis defined for project review.
MTO / BOM	Material take-off and component list prepared by layout.
Drawing pack	Layout, section/detail drawings and installation reference by order scope.
Structural layout	Column spacing, clearance, drainage and foundation interface reviewed.

Carport Model Focus

Column spacing, beam span, vehicle clearance, drainage and foundation reactions define the project model.

Engineering calculation entry

Submit design inputs to define load envelope, model assumptions, MTO and drawing pack.

Request Apex EPC review for load envelope, structural assumptions, MTO and drawing pack.

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Engineering Technical Controls

Item	Specification
Wind	Up to 45-50 m/s by span, column spacing and local code
Snow	Up to 1.2-1.6 kN/m2 by span and drainage design
Foundation	Concrete foundation with single-column steel structure by local design
Clearance	1800-3000 mm review range; vehicle clearance by project
Material	Q235B / Q355B HDG steel; AL6005-T5 rails; SUS304 / HDG fasteners
Design Basis	ASCE 7-16 / 7-22; IBC 2021 / 2024; EN 1991 / EN 1993 / EN 1999; AS/NZS 1170; JIS C8955 / GB 50009 by project
Warranty Profile	Mechanical structure: 12-year limited; corrosion protection and design life target by exposure class and order scope.

Structure



Component Details



76 steel tube
Material : HDG Steel



Mono post with welding plate
Material : Zn-Al-Mg Coating Steel



Splice for Rail
Material : Zn-Al-Mg Coating Steel



Rail Connector
Material : Zn-Al-Mg Coating Steel



H-shape Steel
Material : HDG Steel



H-shape Steel with Welding Plate
Material : HDG Steel



Pull Rod kit-A
Material : Zn-Al-Mg Coating Steel



Pull Rod kit-B
Material : Zn-Al-Mg Coating Steel



Inter Clamp kit
Material : AL6005-T5(Anodized) SUS304



End Clamp kit
Material : AL6005-T5(Anodized) SUS304

Installation Guide



1
Fix the H-shape Steel Welding Plate



2
Install the H-shape Steel



3
Install the 76 steel tube



4
Install the Pull Rod kit A&B



5
Install the module



6
The installation is done