

PROJECT DESIGN INPUT SHEET

Project Design Input Sheet

Site wind profile

Snow zoning

Module datasheet

Corrosion class C3/C4/C5

Soil class / geotech report

Pull-out test

Terrain category

Seismic zone

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.
Bracing model	Lateral bracing, column effective length and clearance interaction reviewed.

HighLift Model Focus

Column buckling length, lateral bracing and clearance-load interaction are checked before final section selection.

Engineering calculation entry

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

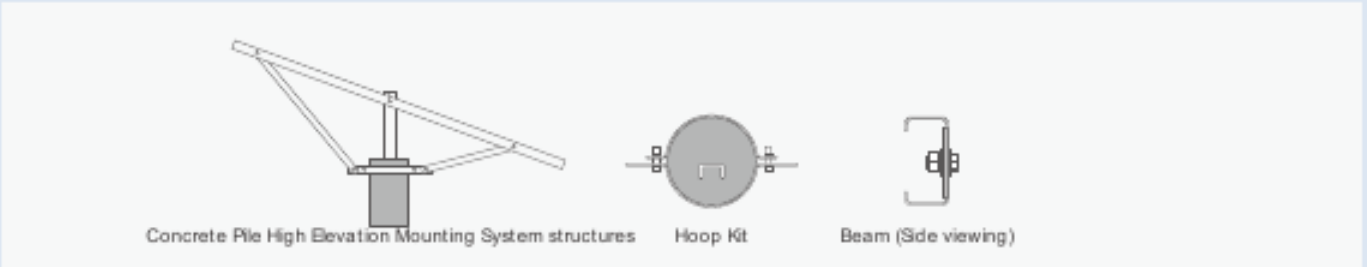
Request Apex EPC review for load envelope, structural assumptions, MTO and drawing pack.

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Engineering Technical Controls

Item	Specification
Wind	Up to 50-60 m/s by height, terrain and bracing arrangement
Snow	Up to 1.4-1.6 kN/m2 by span and local code
Tilt	10/15/20/25/30 deg standard; custom angle by project review
Foundation	Driven pile or project-specific foundation by soil report
Clearance	1800-3000 mm review range; final by land use, wind load and structural span
Material	Q235B / Q355B HDG steel structure with AL6005-T5 module rails by BOM
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

Structure



Component Details

Beam
Hoop Spec : C100*50*6*2*L4500
Material : Q235B(Hot-Dip Galvanized)

Side Beam
Hoop Spec : C100*50*6*2*L2800
Material : Q235B(Hot-Dip Galvanized)

Front/ Back Post
Specification : Front Support Back Support
Components : Q235B(Hot-Dip Galvanized)

Hoop Kit
Hoop Spec : 300*5.0*100
Components : Flat Washer M14 Spring Washer M14 Hexagon Socket Head Bolt M12*65

End Clamp Kit
Components : End clamp Cross Module Spring Washer M8 Hexagon Socket Bolt

Inter Clamp Kit
Components : End clamp Cross Module Spring Washer M8 Hexagon Socket Bolt

Post
Hoop Spec : C100*50*6*2*L557
Components : Flat Washer M16 Spring Washer M16 Hexagon Socket Head Bolt Nut M16 Hexagon Socket Head Bolt M16*50

Small Connector
Hoop Spec : 80*40*5*40
Components : Flat Washer M12 Spring Washer M12 Hexagon Socket Head Bolt Nut M12 Hexagon Socket Head Bolt M12*30

Big Connector
Hoop Spec : 80*40*5*100
Components : Flat Washer M12 Spring Washer M12 Hexagon Socket Head Bolt Nut M12 Hexagon Socket Head Bolt M12*30

INSTALLATION GUIDE

