

ANTAI Ground Mounting Kits Fast Installation Guide for 2x9 Panel Array

1 Preparation

1.1 Component List

1.2 Tool List

1.3 Equipment List

1.4 Planning

2 Installation Procedure

5 Steps

1 Preparation

1.1 Component List



Note: For more than 2×9 panels, additional rails and accessories might required. Please contact Antai for material list.

1.2 Tool List



1.3 Equipment List

ANTAI Ground Mounting Kits is compatible with driven pile foundation and concrete pier foundation (**25Mpa** strength concrete). The following equipment might be required for relevant options.







Post Hole Digger (for concrete foundation)

1.4 Planning

Additional parts for each extra pile (in wind region B1/B2)

Grinder Set \times 1

Connector \times 1

M10*90 Bolt/Nut Set \times 1

M12*120 Bolt/Nut Set \times 1

Beam Cap ×2

Tapping Screw ×3

Rail Clamp x 8

Note: For panel width larger than 1160mm, a total of more than 5 piles may be required in wind region B1/B2, details refer to engineering certification.

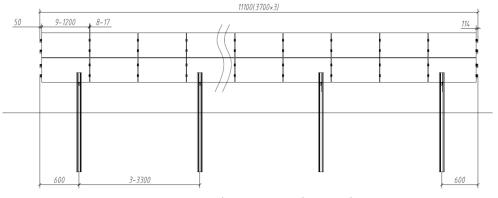


Figure. 1: Wind **Region A** design drawing

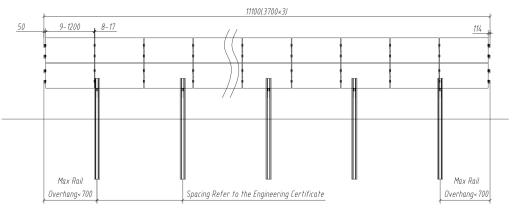
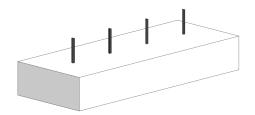


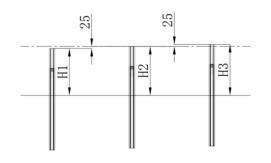
Figure 2: Wind Region B1/B2 design drawing

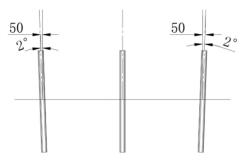
2 Installation Procedure

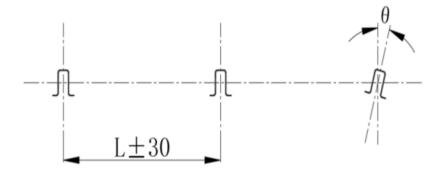
Step 1 Pile Installation



Note: Please check tolerance of post construction





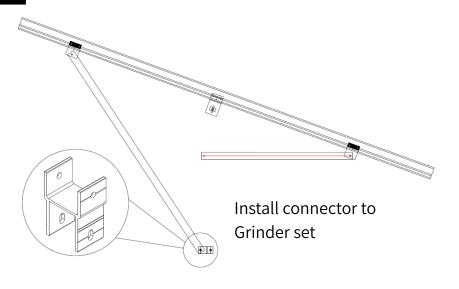


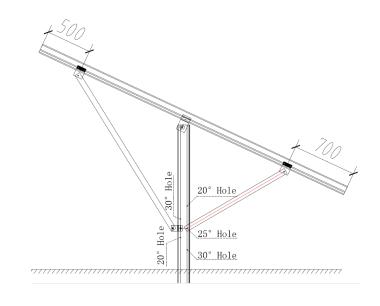
North - South Direction

East - West Direction

East - West Direction pile opening ⊖≤±2°

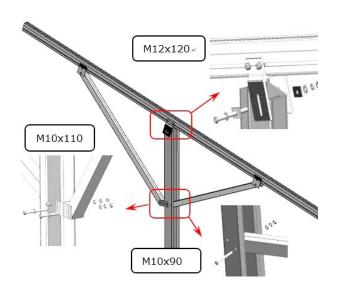
Step 2 Install Pre-assembled Girder To Pile

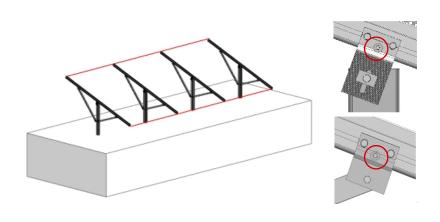




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3) (4

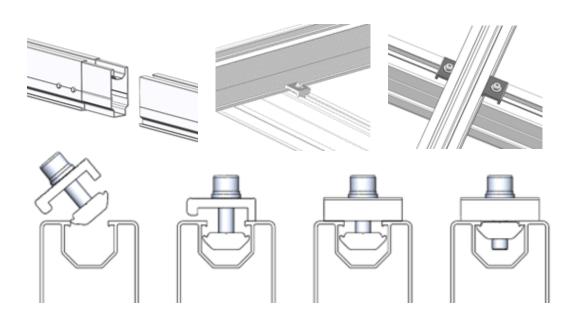




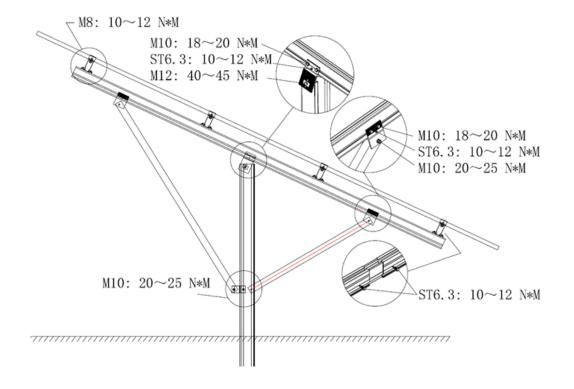
check alignment and then install ST6.3*25 screw

Step 3 Install Rails

Connect the rails using rail splices and fix each rail on beam with 2 rail clamps. Make sure the rail locations are in line with the panel clamp zone in the panel drawings.

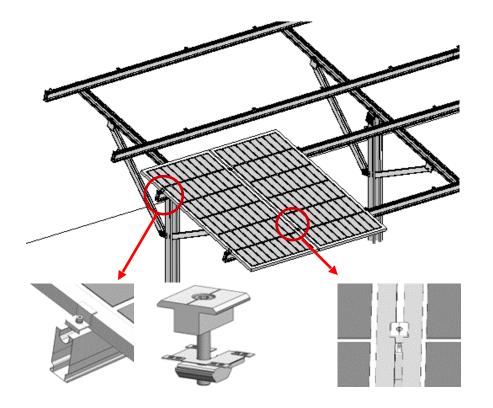


Check torque





Module Installation By Mid/End Clamp



Step 5 Install Grounding Lug And End Caps

