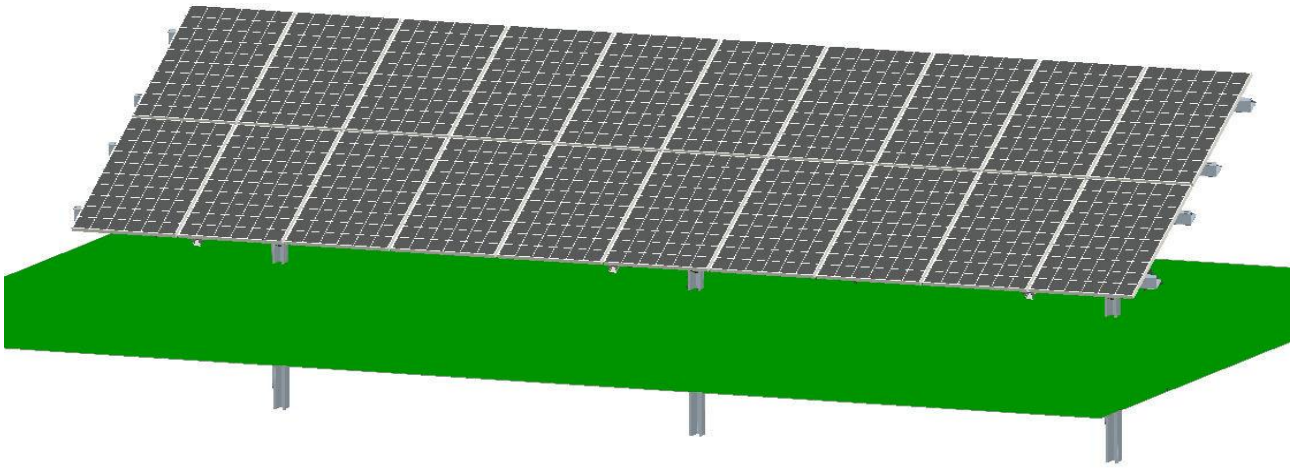
SPAL Mount Installation Manual



Compared with the SPAS, the SPAL Mount uses aluminum components, which makes the system light and saves transportation costs. It is also easy to recycle and adds corrosion resistance.

SPAL mount features:

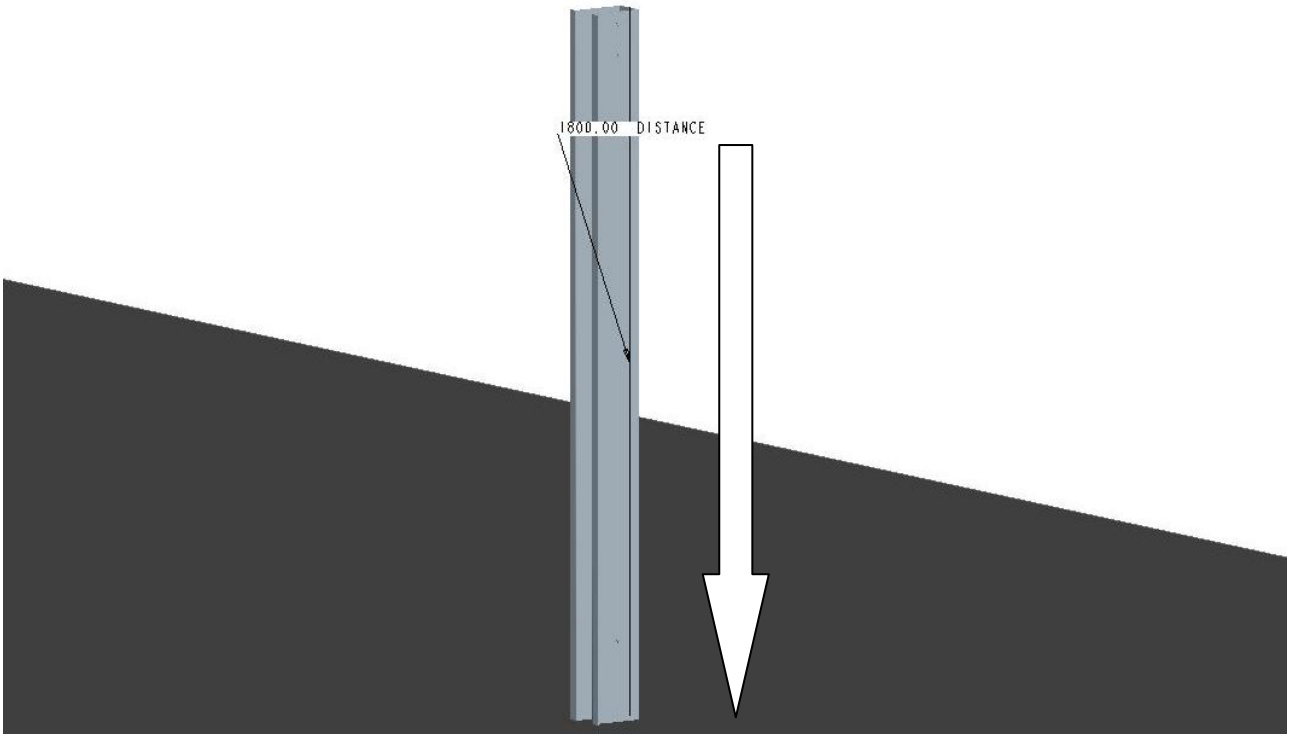
* Suitable for any type of terrain and climate.
* Pre-assembled parts allow for quick and easy installation
* Compatible with any type of solar panel.
* Aluminum is easy to recycle, reduces weight and adds corrosion resistance.

Installation tolerance:

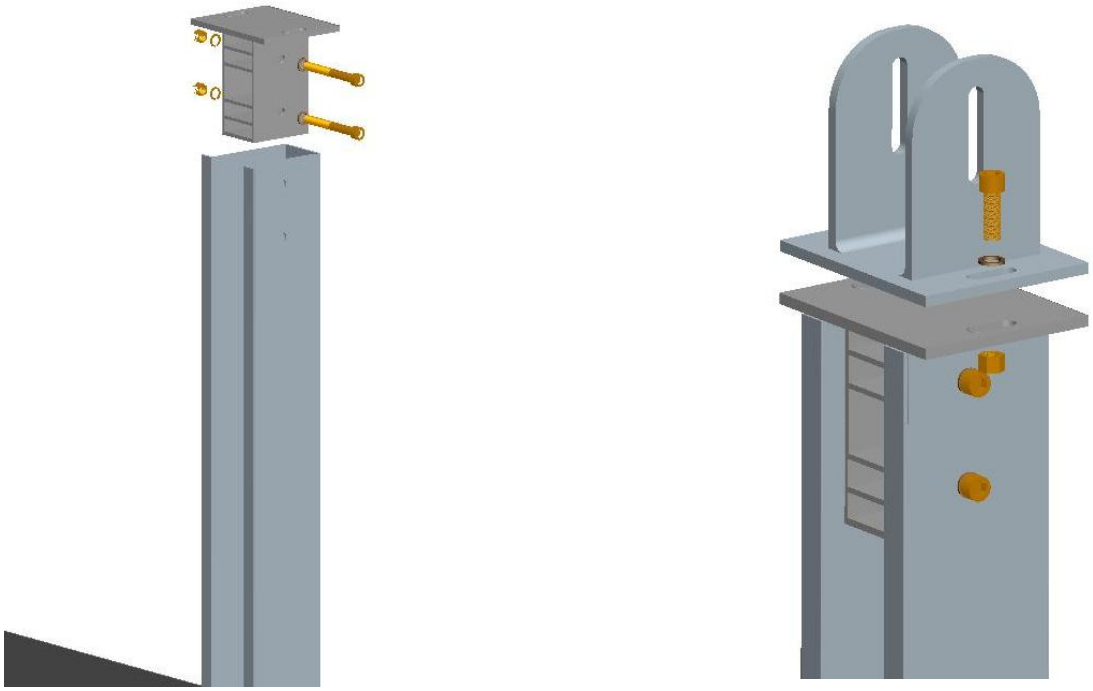
Lateral post placement is ±2.0"
Total lateral deviation of posts within an array is ±2.0"
Post height variation tolerance is ±0.2"
Post verticality tolerance is <2.0" in all directions
Post rotation tolerance is <±2.0°
Array tilt angular tolerance is ±0.5°

NOTICE: do not secure bolts to the final torque until the system is fully assembled.

Installation procedures

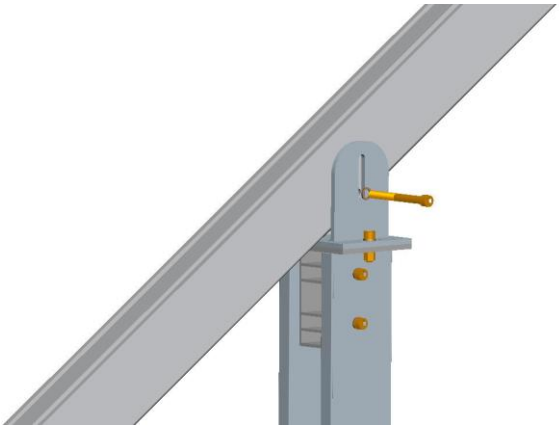


1. Install foundation posts. Due to varying terrain and environmental conditions, the installation procedures may differ.

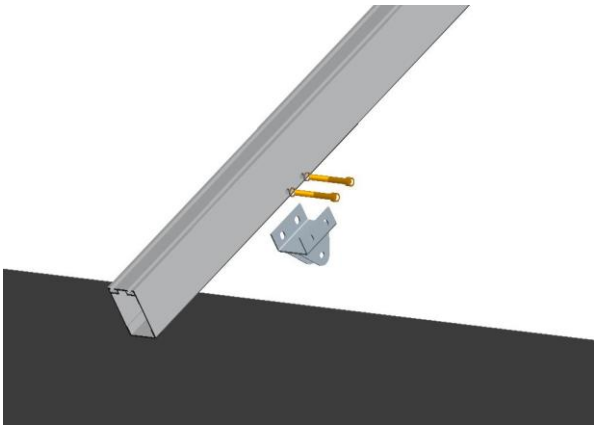


(a) (b)

2. Place the base console onto the top of the foundation post and fasten it (a). Put the head piece on the base console and fasten it with bolts (b).

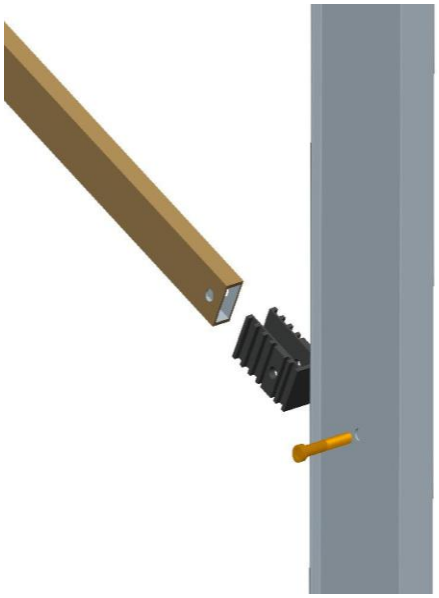


(a)

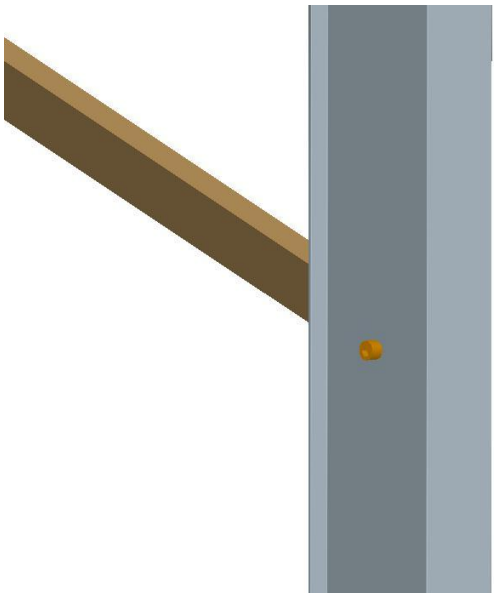


(b)

3. Fasten the girder onto the clamp of the head-piece (a). Fasten the strut console onto the girder (b).

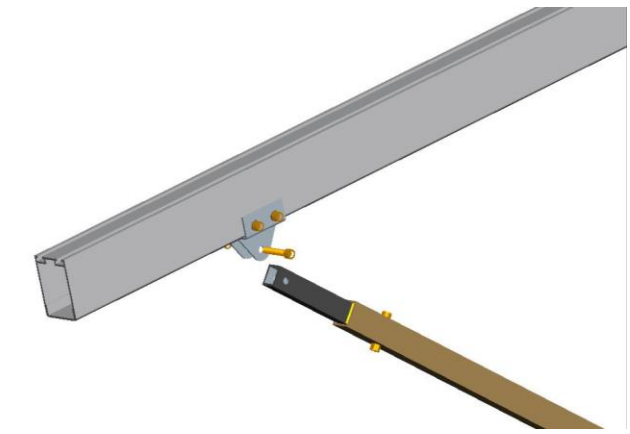


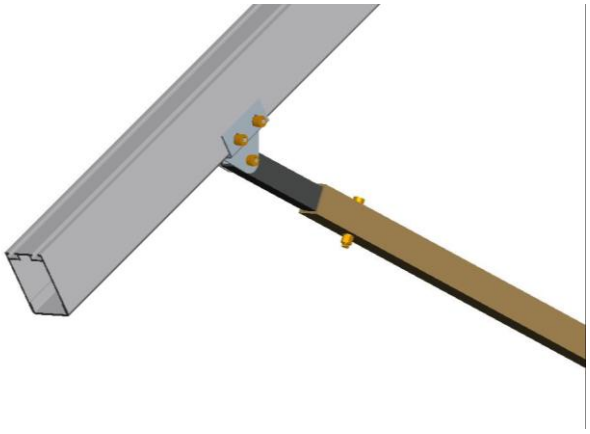
(a)



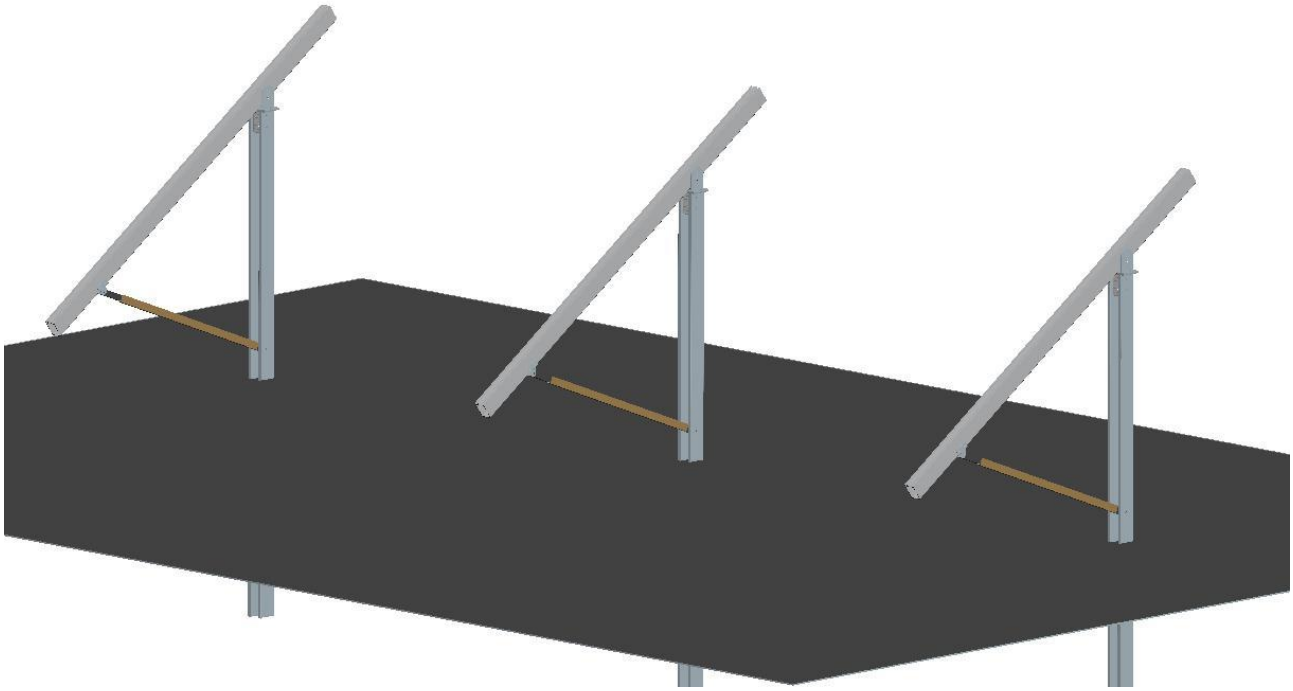
(b)

4. Fix the strut shoe onto the foundation post (a). Place the big strut onto the strut shoe and fasten it with a bolt (b).

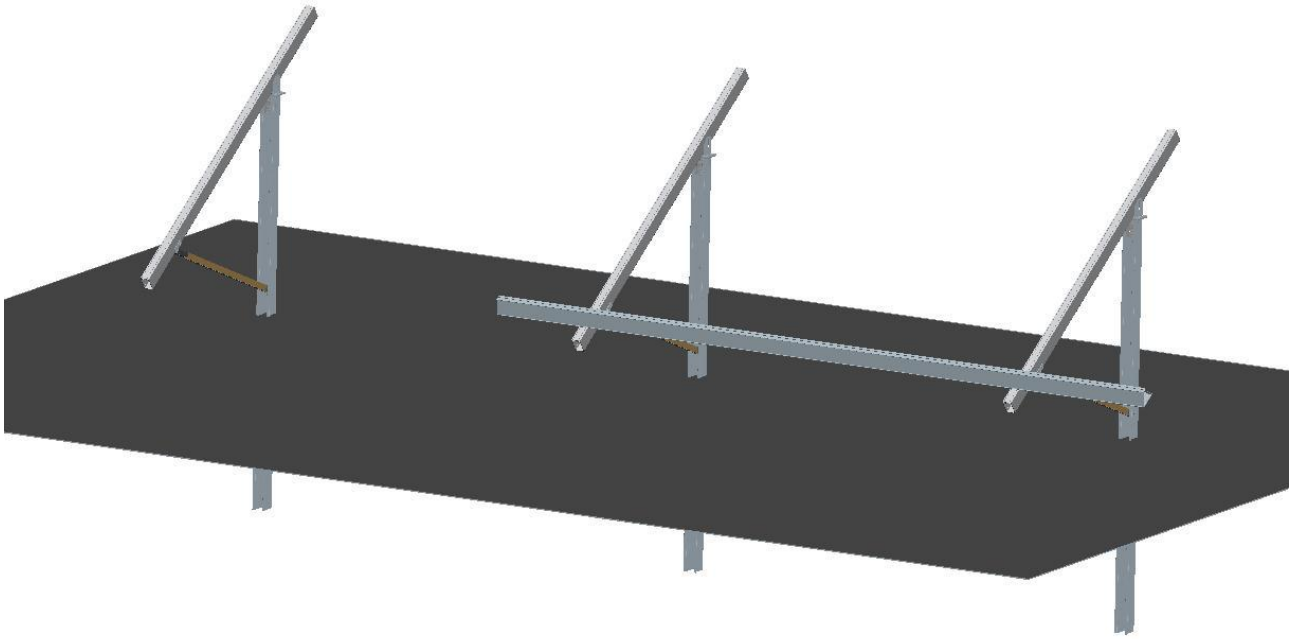


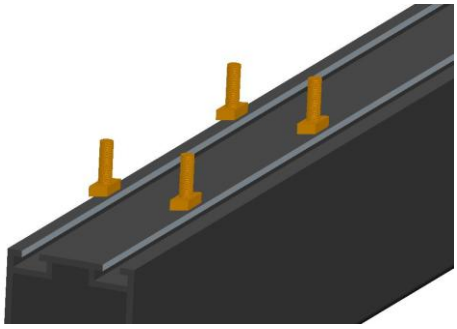


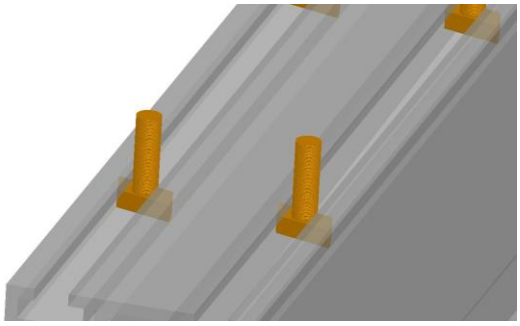
5. Insert the small strut into the large strut and fasten the other side of the small strut onto the strut console. Choose the mark showing the desired angle and insert a bolt into the hole on the big strut, then fasten it. There are five marks on the small strut indicating the different angles: 15°, 20°, 25°, 30° and 35°. Choose the right angle that optimizes your system.



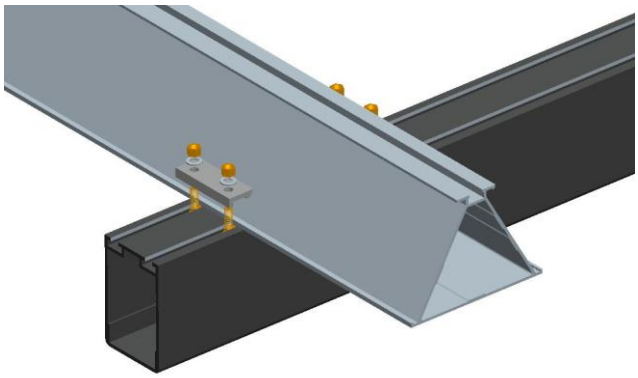
6. Repeat the above steps to install the other foundation posts.

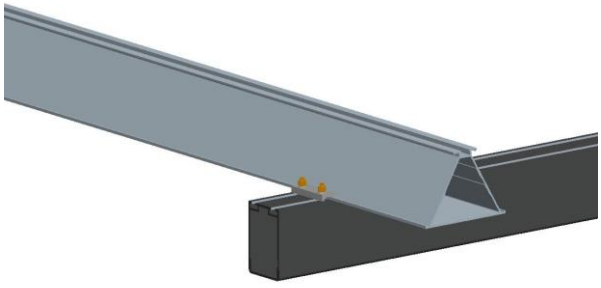




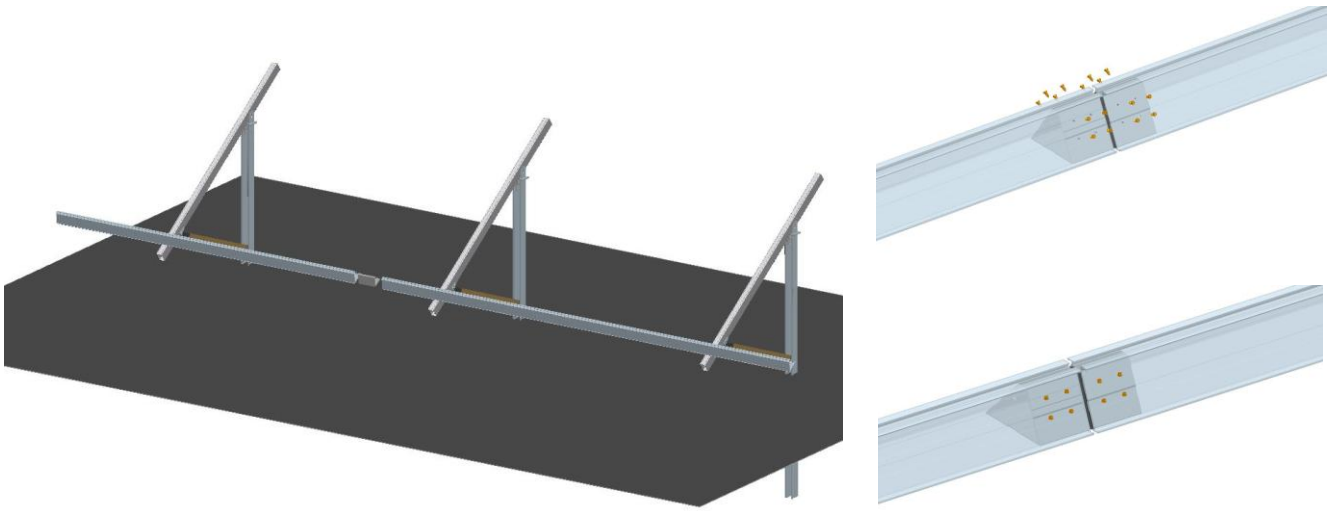


7. Turn four prismatic bolts into the groove of the girder.

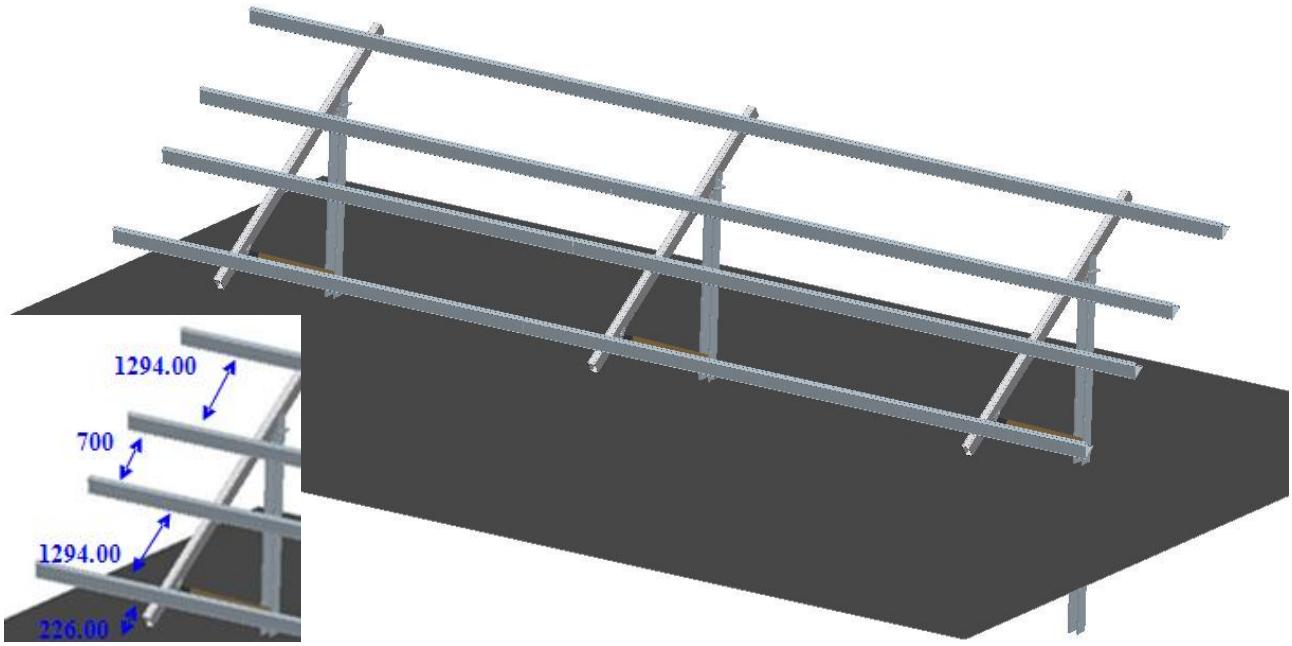




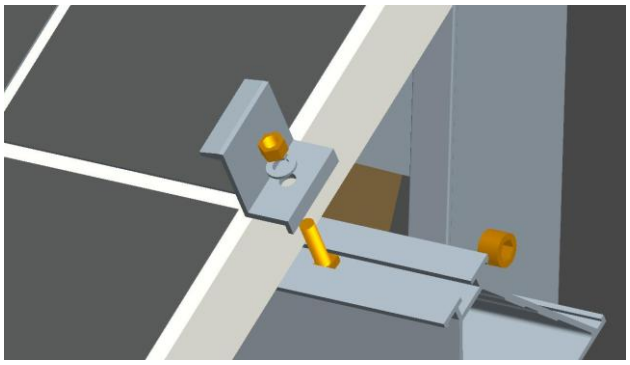
8. Fasten the purlin onto the girder with prismatic bolts.

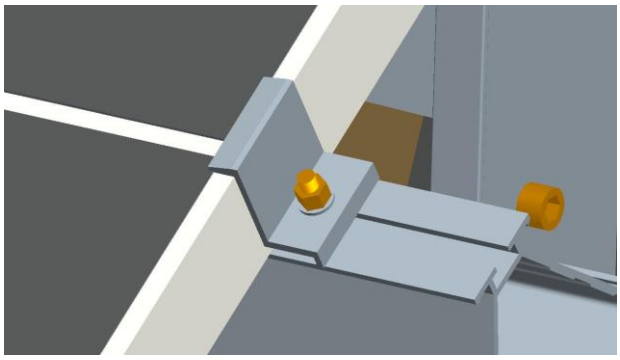


9. A splice can be used to expand this mounting system. First, insert the splice into one side of the purlin and secure it in place with bolts. Then loosely attach the second purlin onto the girder. Connect the two purlins together and secure them with bolts. A 10mm gap should remain between the two purlins.

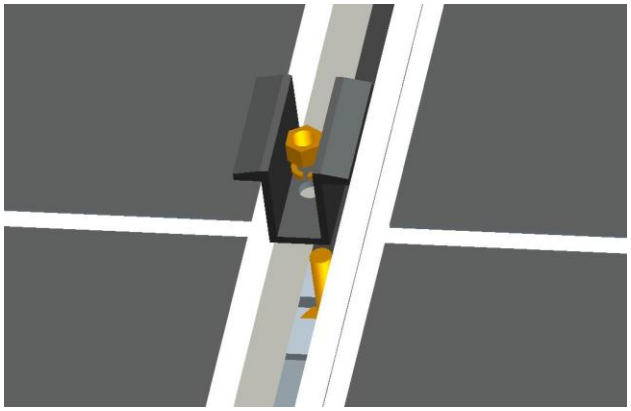


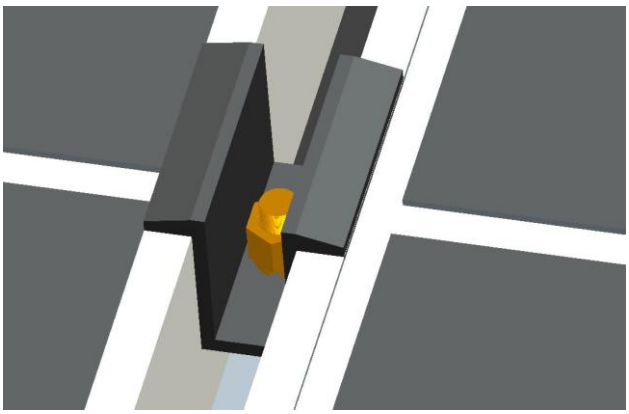
10. Fasten the other three purlins using the same steps listed above. Distances between the purlins are shown in the picture above. (Distances are measured from the center of the purlins)



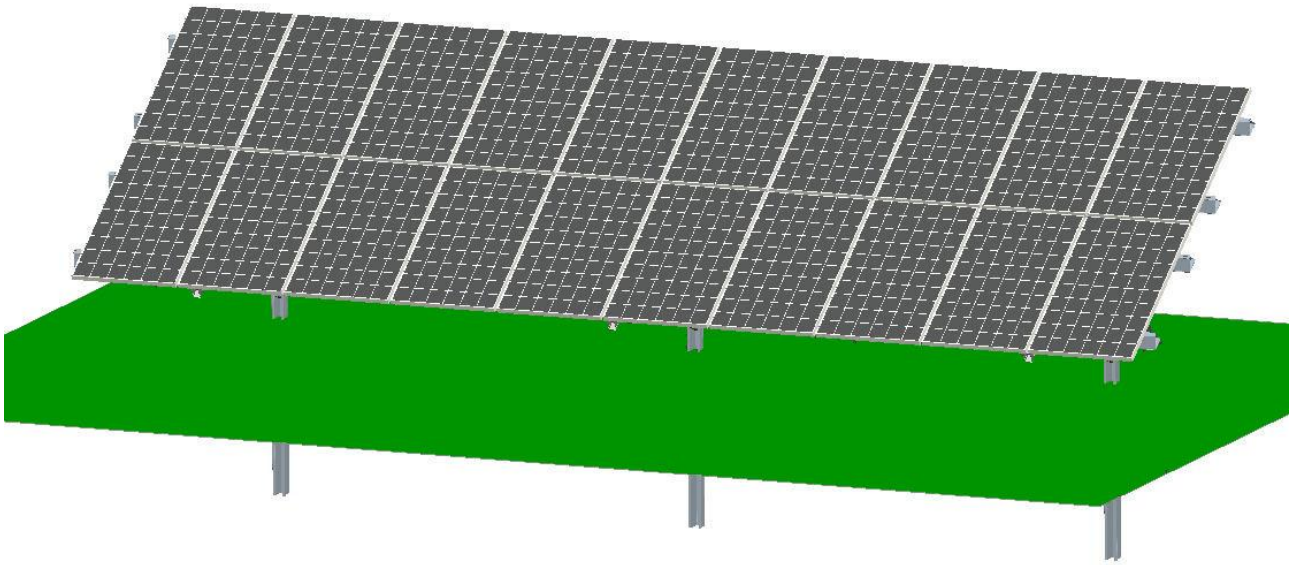


11. Insert prismatic bolts into the groove of the purlin and rotate to fix it into the groove. Fasten the solar panel with the end clamp and prismatic bolts.





12. Insert prismatic bolts into the groove of the purlin and place it between two solar panels. Rotate to get it stuck in the groove. Fasten the solar panels by using a mid clamp.



13. Attach all the other solar panels to the purlins following the same steps listed above.

Notice: there are six holes in the small strut, one is for the connection with the girder, and the other five holes are for setting different angles. There are five marks on the strut, please choose the desired angle before installation.