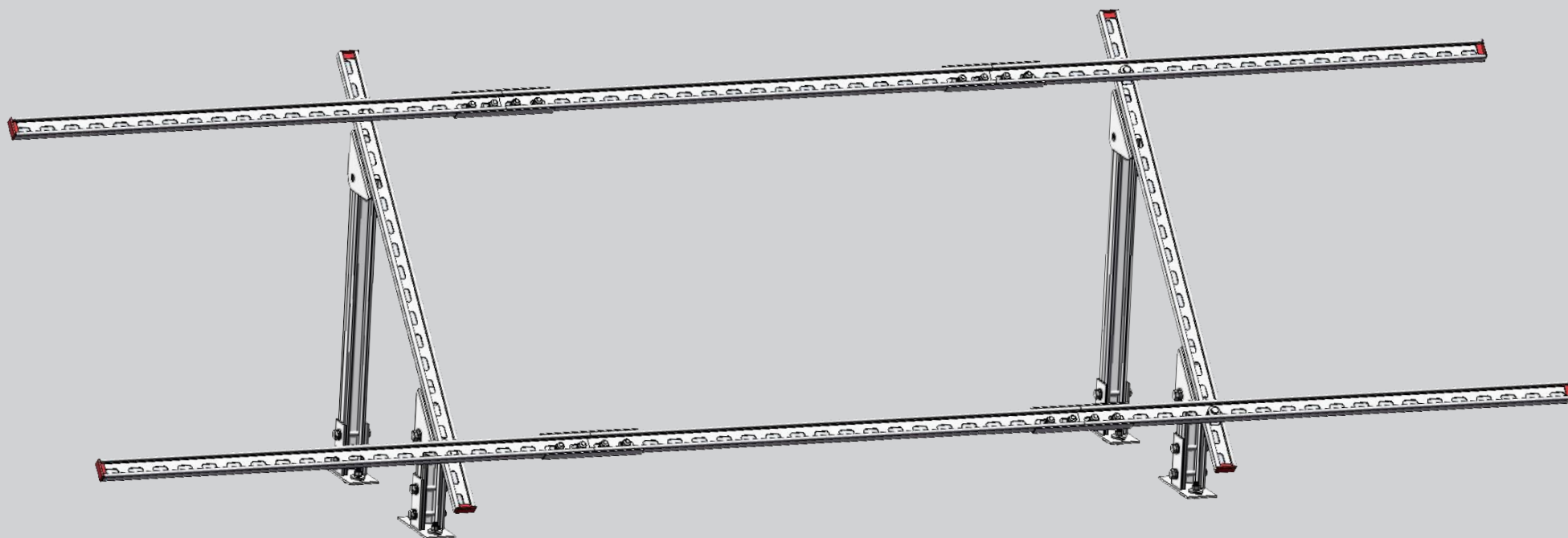




ECO-WORTHY

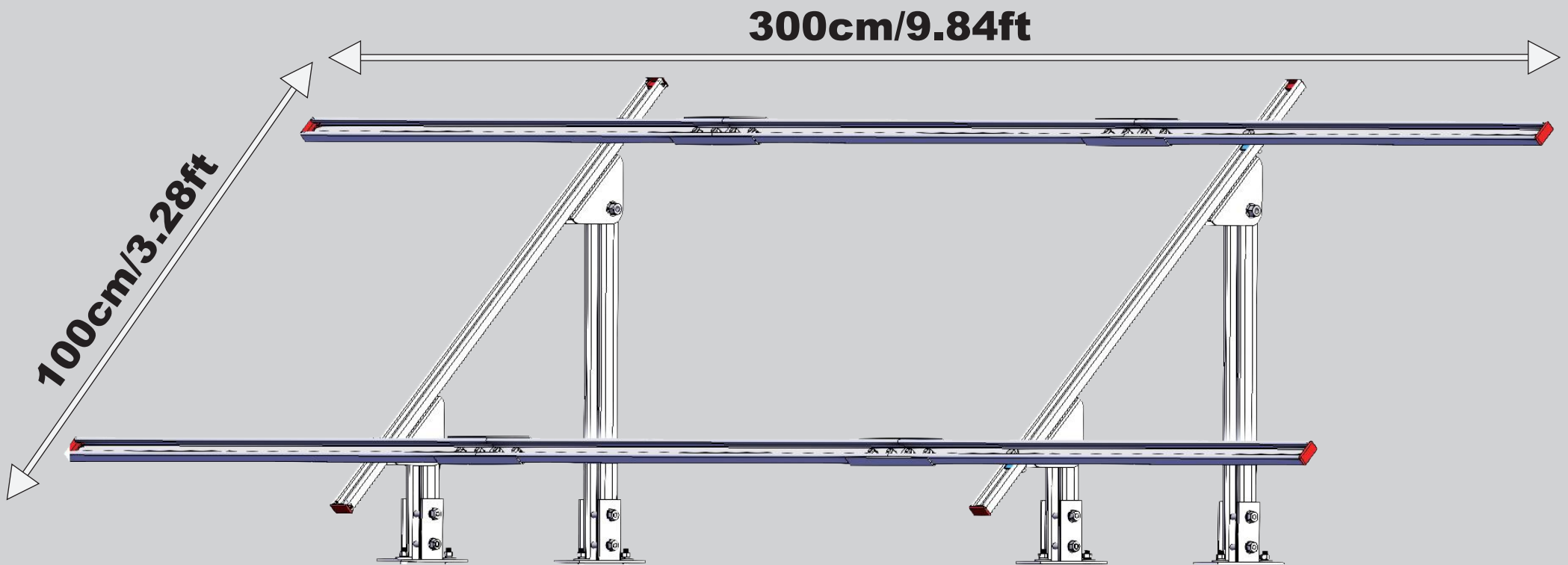
MULTI-PIECES SOLAR PANEL MOUNTING BRACKETS



Version 1.1

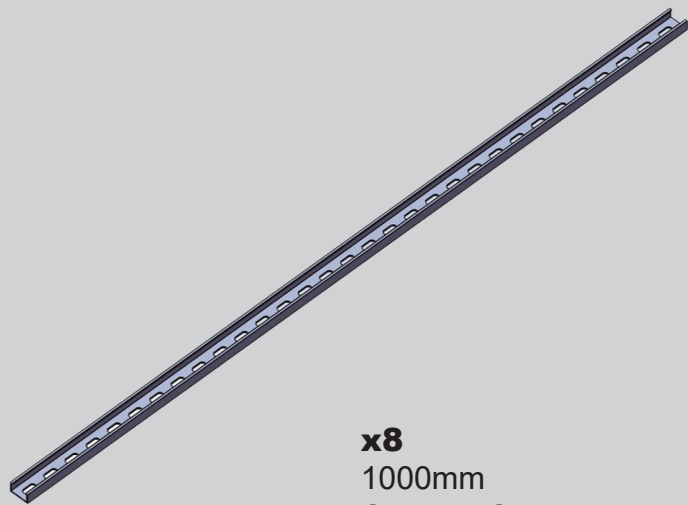
Welcome to ECO-WORTHY Solar Expert!

Produced with high strength galvanised steel, this bracket will make your solar panels get more power from the sun at the proper angle. Changing the installation position of the poles to get the bracket angle changed according to the latitude of where you live.



Bracket width: 3m/9.84in.

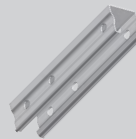
WHAT'S IN THE BOX



x8
1000mm
Channel Steel



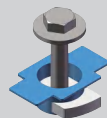
x2
41*41*1.2*600mm
Steel with Perforation



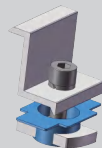
x2
41*41*1.2*200mm
Steel with Perforation



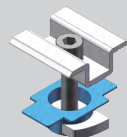
x4
41mm bracket
Bracket Base



x4
Bracket Base
Middle Clamp



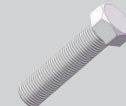
x4
Solar Panel
Side Clamp



x6
Solar Panel
Middle Clamp



x8
Expansion
Bolt



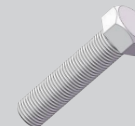
x24
20mm M8
Hex Cap Bolt



x48
Flat Washer



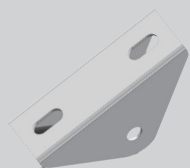
x16
M8 flange nut



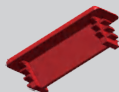
x12
60mm M10
Hex Cap Bolt



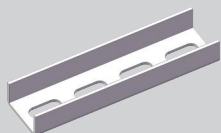
x12
M10 Flange Nut



x4
Triangle Joint



x8
41*21mm Cap



x4
U-Shaped
Connector

For the convenience of display, some of the bolts would be shown as a simplified figure. Please refer to the material box on the top of every step.



1 Build the Main Poles



x2
41*41*1.2*600mm
Steel with Perforation



x2
41*41*1.2*200mm
Steel with Perforation



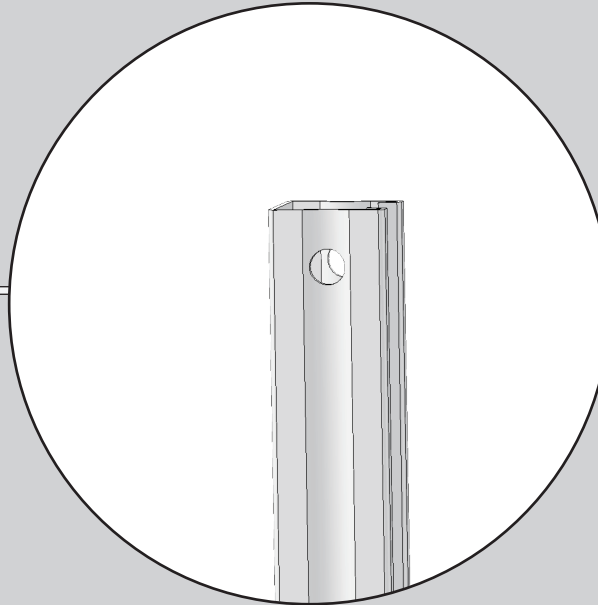
x4
41mm
Bracket Base



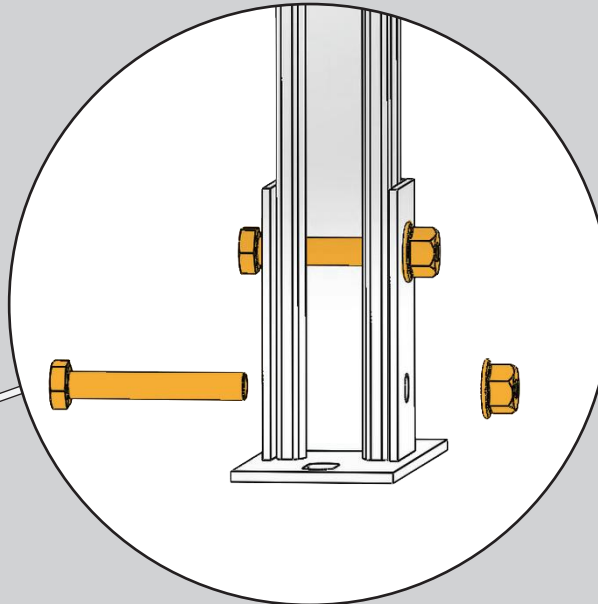
x8
M10 Hex
Cap Bolt



x8
60mm M10
Flange Nut



Make the single-hole end face upwards.

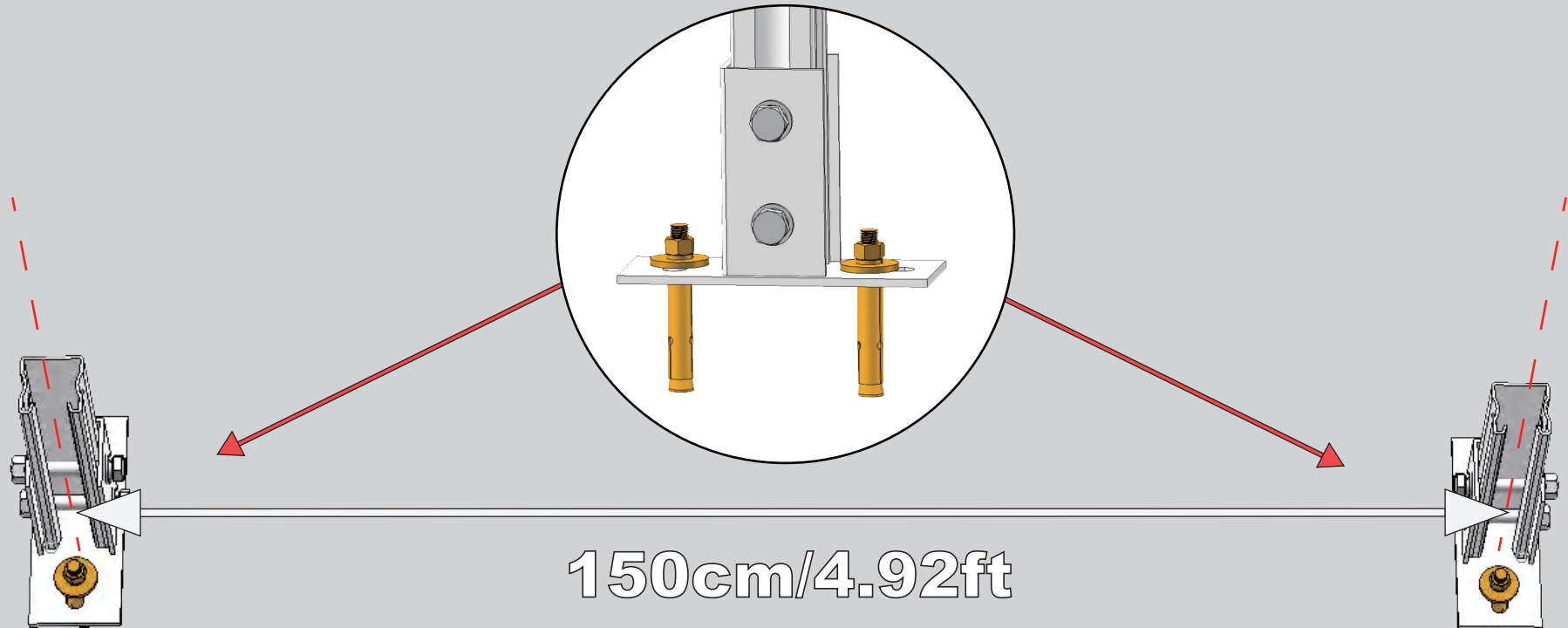


Install the Bracket Bases with the Main Poles with M10 60mm Hex Cap Bolt and M10 Flange Nut.

2 Fix the Main Poles



The spacing between the same columns must be 150cm/4.92ft.



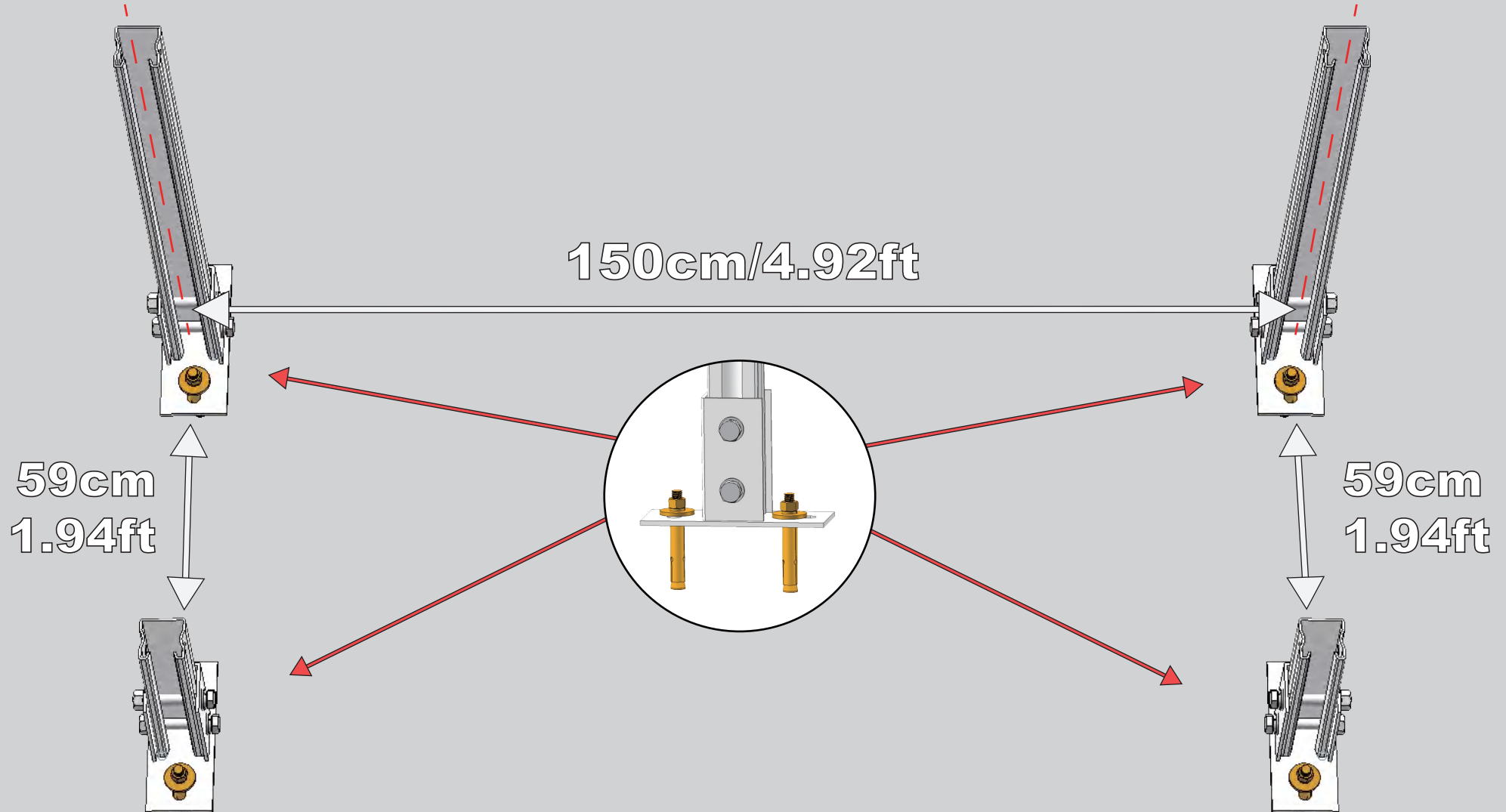
Tips: All concave sides of columns need to face south.

3

Fix the Main Poles

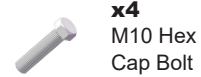


The closer the long poles and the short poles are, the more tilting the bracket will be. When the distance is 59cm, the angle will be 28.5°.

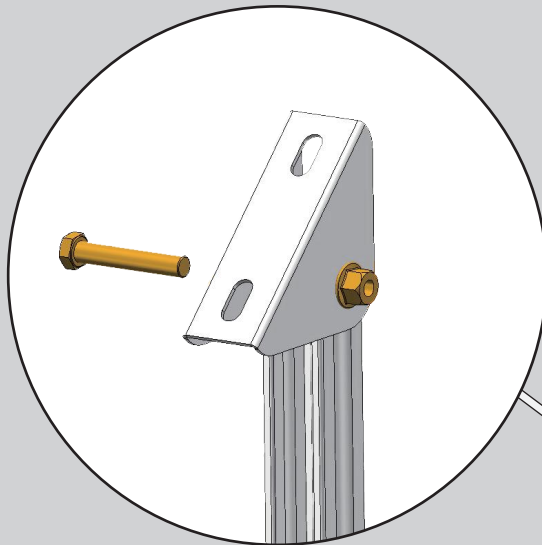


Tips: It is very important to figure out the best angle of your bracket before installation because once the 4 bases are fixed, the angle can not be changed anymore. Any problems please contact customer service team.

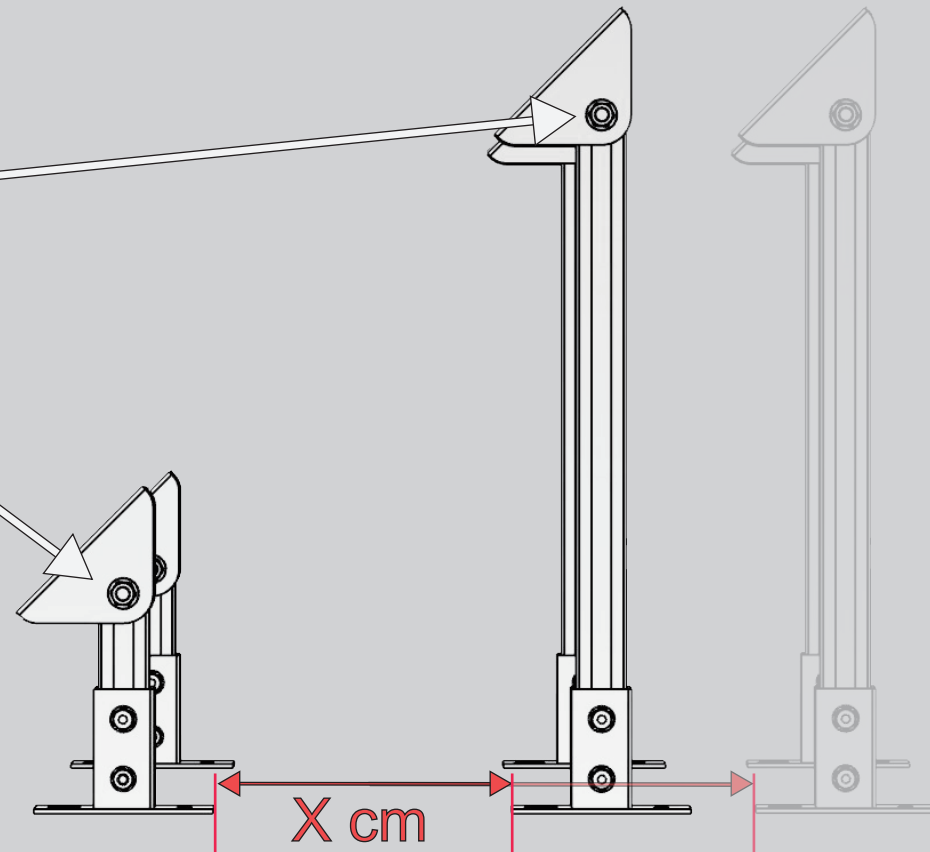
4 Connect the Triangle Joint to the Poles



Confirm the best angle and connect the Triangle Joint to the poles. Take Los Angeles as example, the best angle will be 35°/40°.



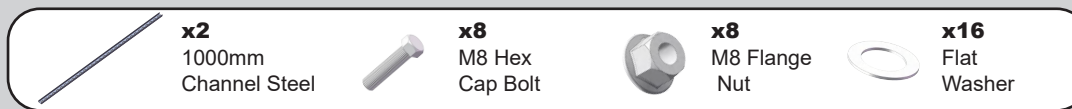
X cm = 59cm → 28.5°
= 45cm → 33°
= 35cm → 38°
= 25cm → 45°



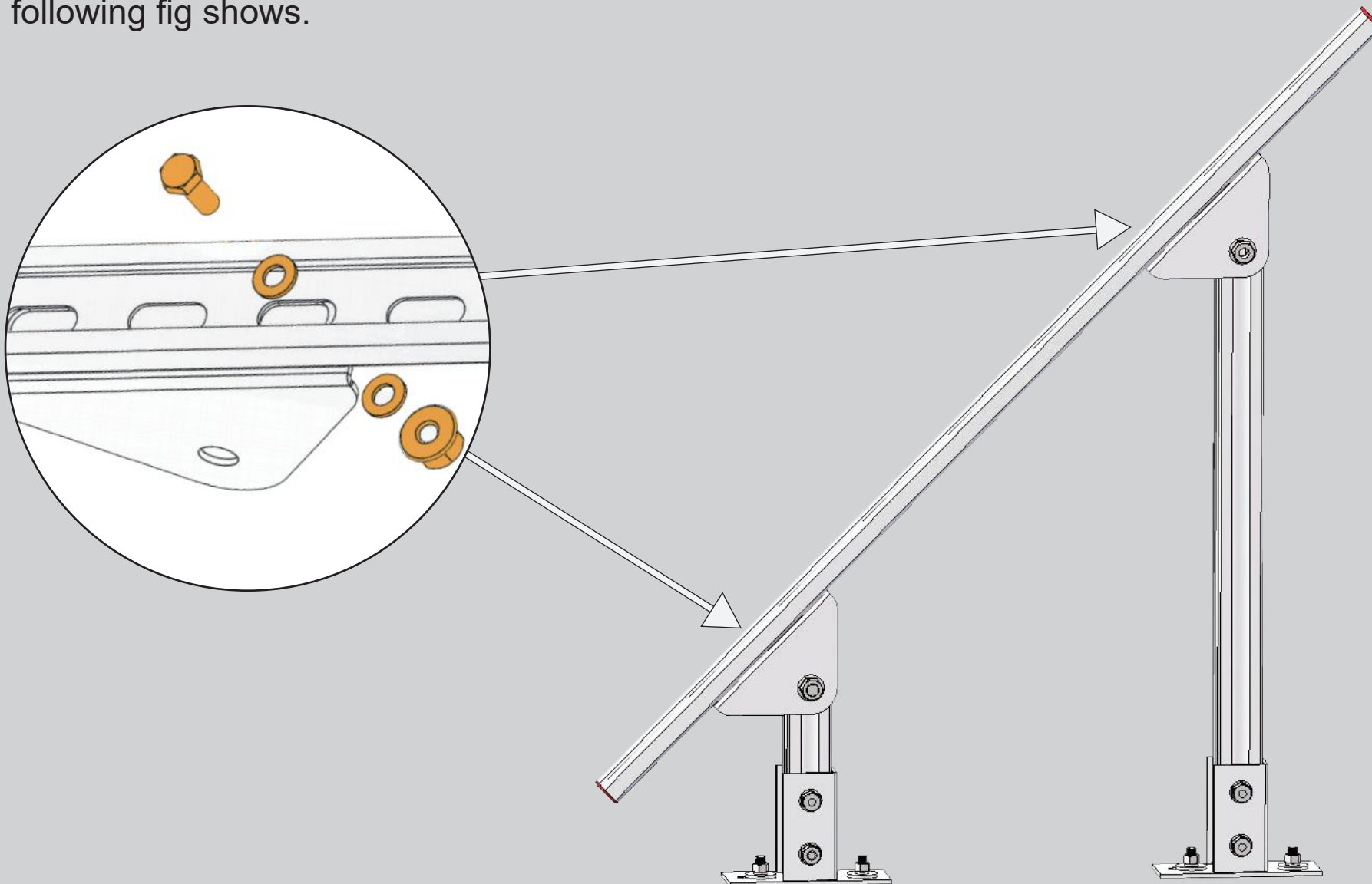
Tips: Do not fix the bolts tightly before installing the tilt bracket.

5

Connect the Channel Steel to the Joint



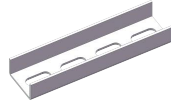
Put the Channel Steel on the Joint and connect them together as the following fig shows.



6 Build 3m-long Poles with the Channel Steel



x6
1000mm
Channel Steel



x4
U-Shaped
Connector



x8
M8 Hex
Cap Bolt



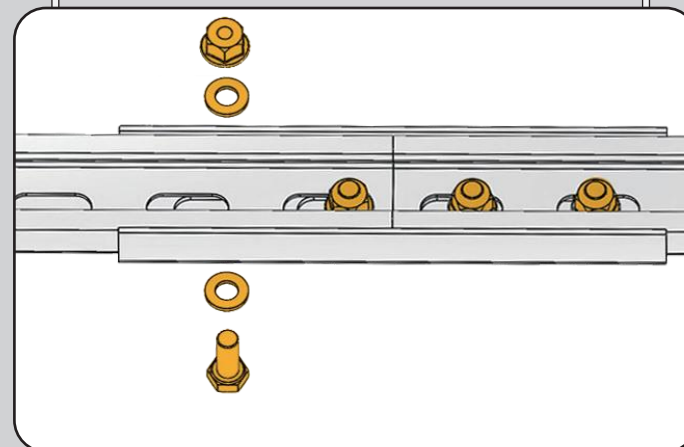
x8
M8 Flange
Nut



x16
Flat
Washer



x8
41*21mm
Cap

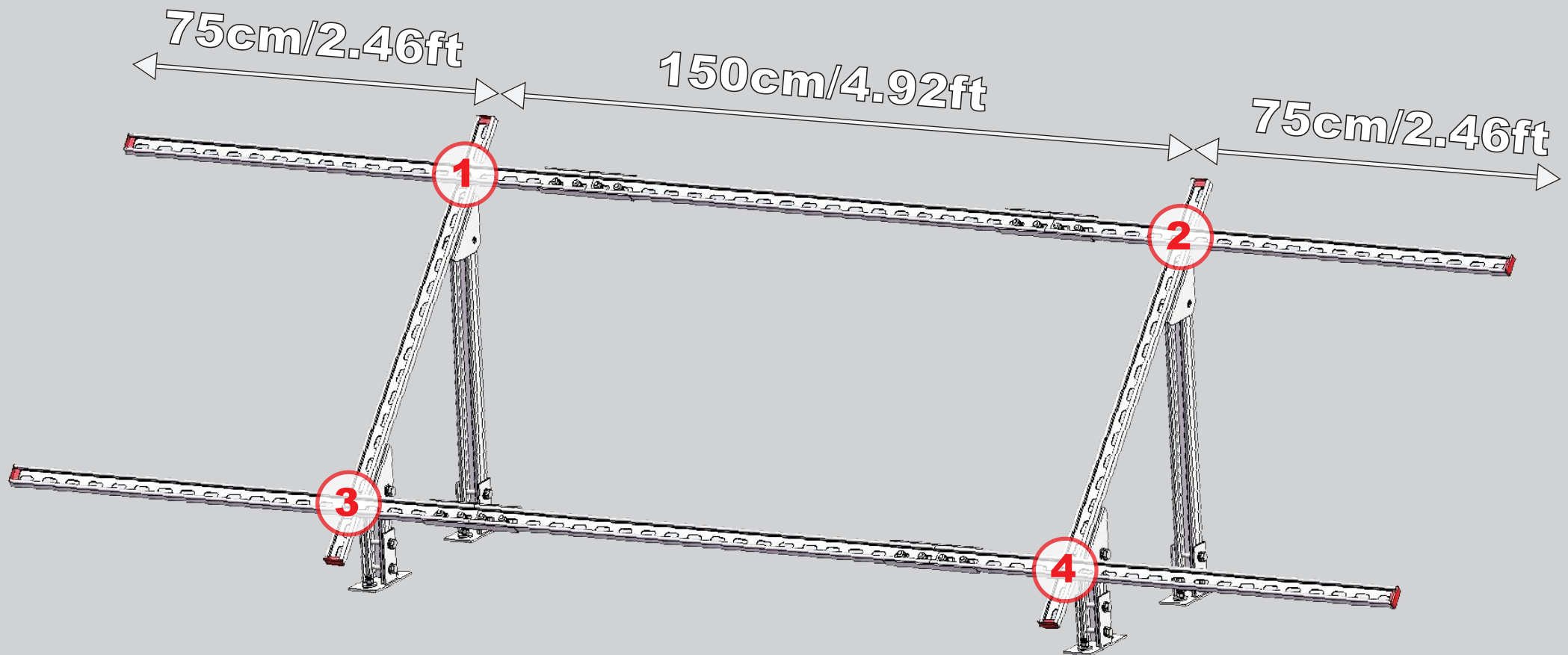
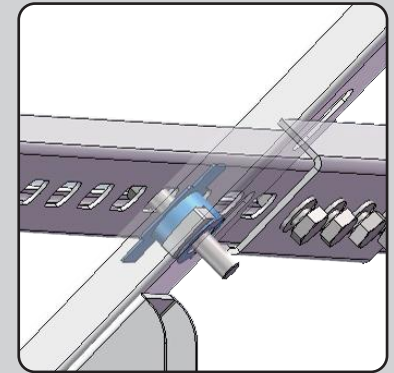
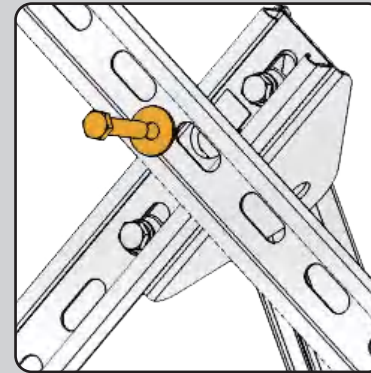


Tips: Please note the connection must be very tightened.

7 Install the 3m-long Poles

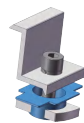


x4
Bracket Base
Middle Clamp

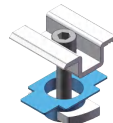


Tips: Please note the 3m-long poles should be fixed at the middle of the Triangle Joint as the zoom in fig shows.

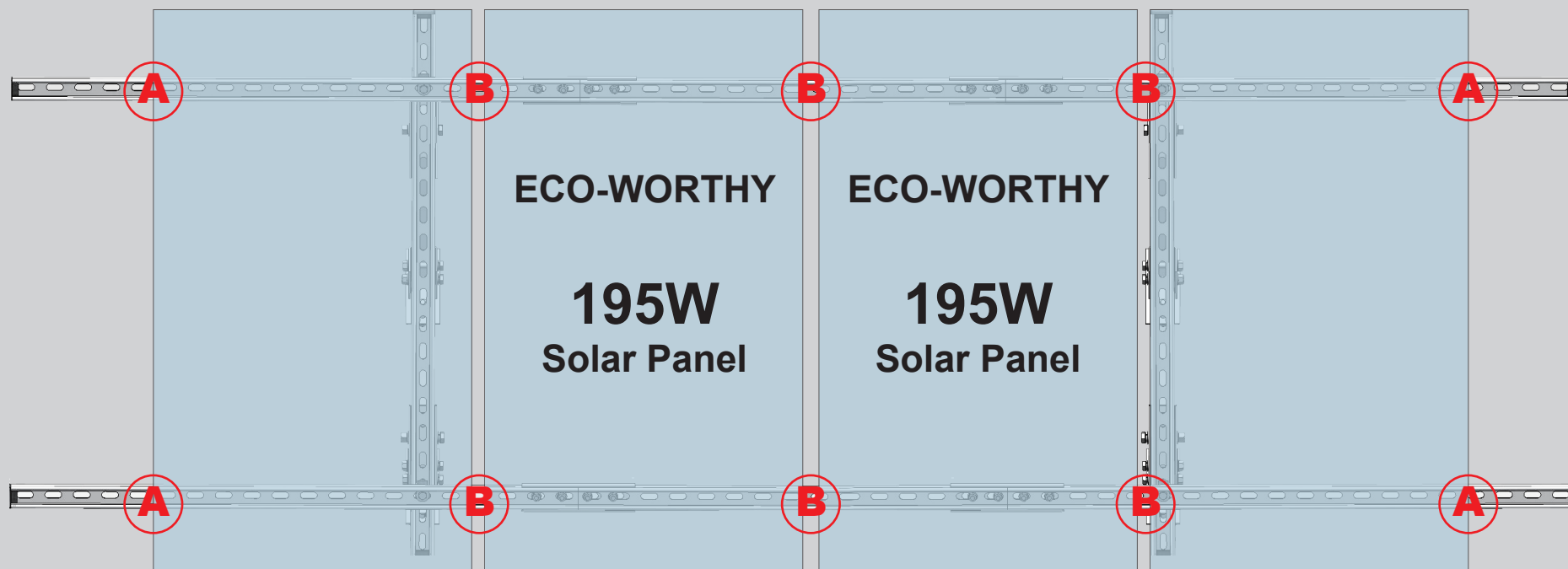
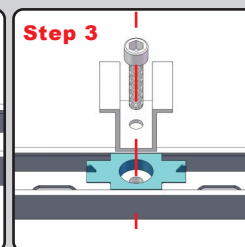
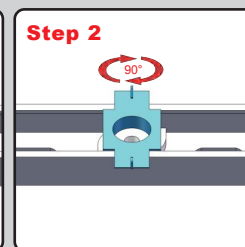
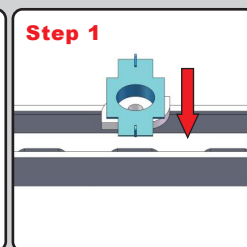
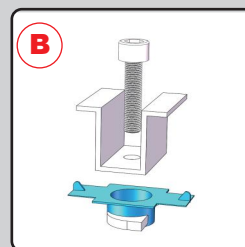
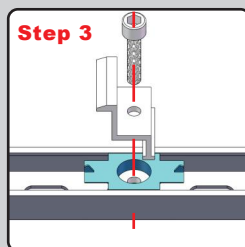
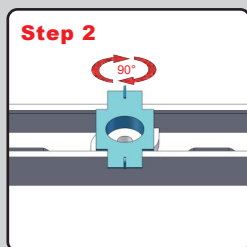
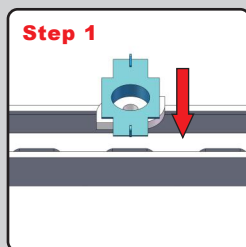
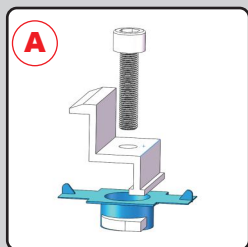
8 Installing Solar Panels



x4
Solar Panel
Side Clamp



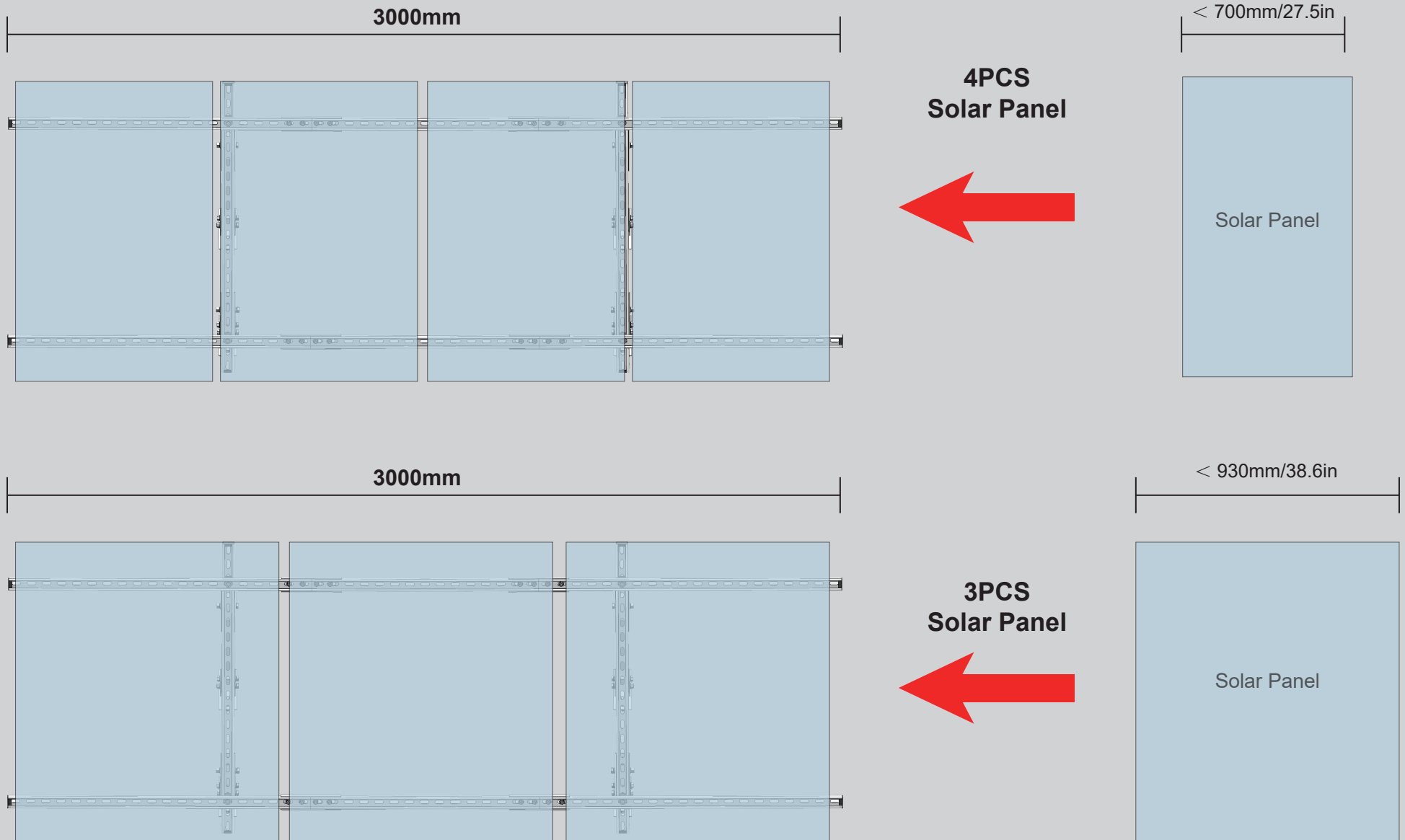
x6
Solar Panel
Middle Clamp



Tips: Only suitable for standard solar panels with a thickness of 35mm.

9

Solar Panel Size Adaptation



SUPPORT

- For the use of this manual and the conditions or methods of installation, operation, use, and maintenance of product are beyond ECO-WORTHY's control, ECO-WORTHY does not accept responsibility and expressly disclaims liability for any loss, damage, or expense arising out of or in any way connected with such installation, operation, use or maintenance.
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Contact Number:

US: 1-866-939-8222

UK: +44 20 7570 0328

DE: +49 693-1090-113

Email:

customer.service@eco-worthy.com

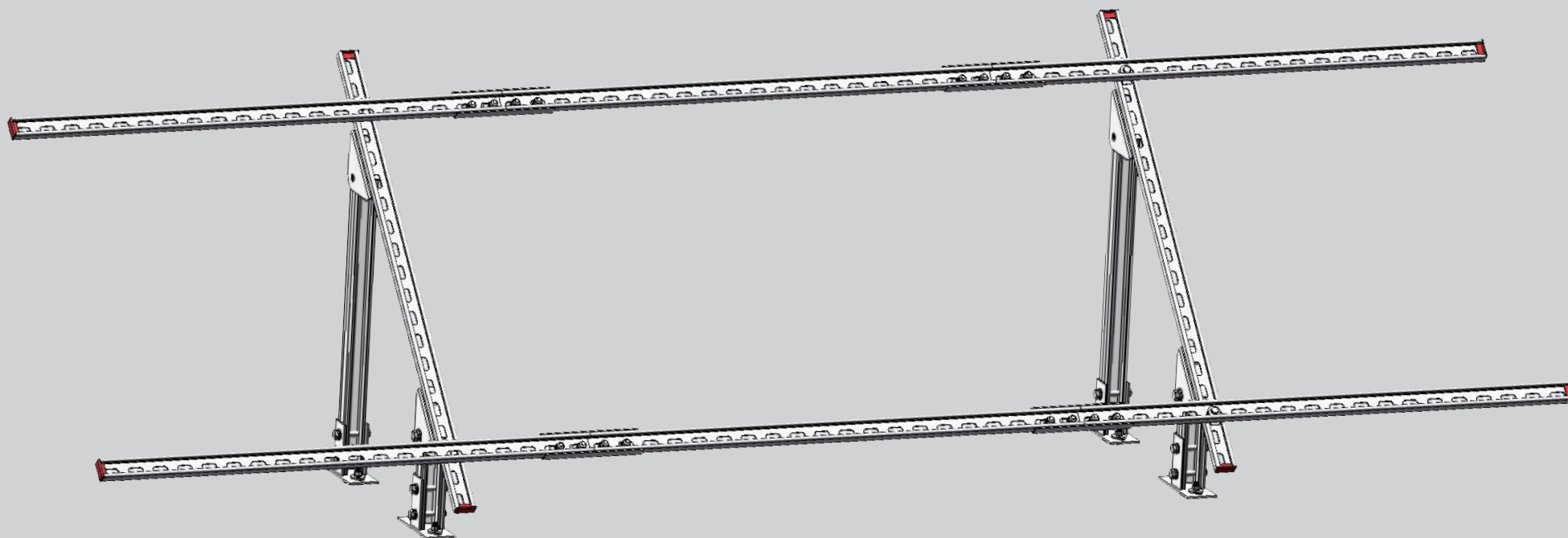
Installation & Setting Video:





ECO-WORTHY

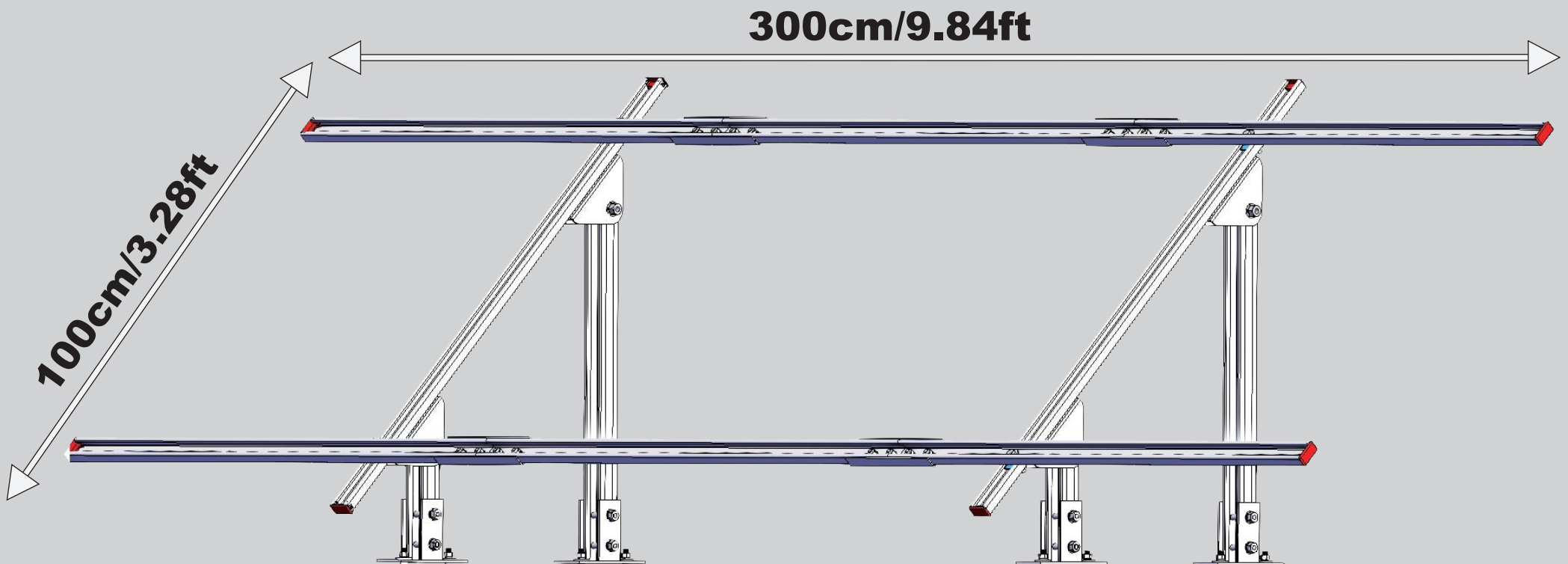
MEHRTEILIGES SOLARPANEL MONTAGEBÜGEL



Version 1.1

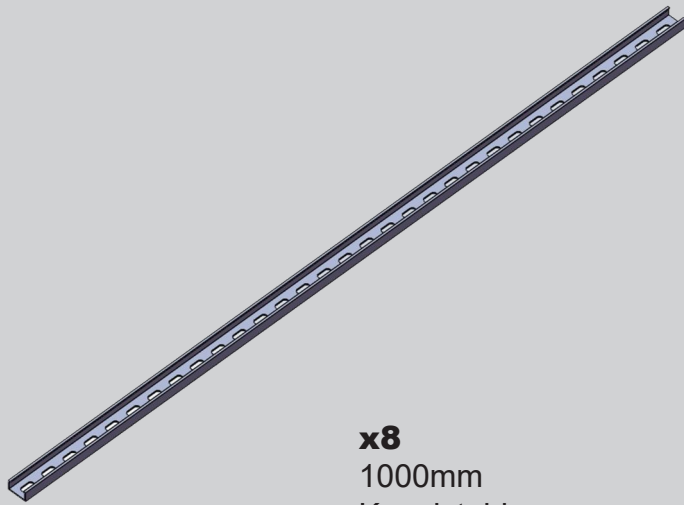
Willkommen bei ECO-WORTHY Solar Expert!

Hergestellt aus hochfestem verzinktem Stahl, wird diese Halterung dazu führen, dass Ihre Solarmodule mehr Energie von der Sonne im richtigen Winkel erhalten. Ändern der Einbauposition der Pfosten, um den Winkel der Halterung entsprechend dem Breitengrad Ihres Wohnortes zu ändern.



Breite der Halterung: 3m/9,84in.

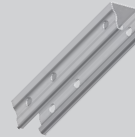
WAS IST IN DER BOX



x8
1000mm
Kanalstahl



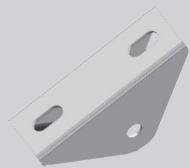
x2
41*41*1.2*600mm
Stahl mit Perforation



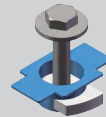
x2
41*41*1.2*200mm
Stahl mit Perforation



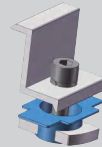
x4
41mm bracket
Halterungsbasis



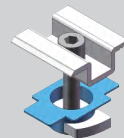
x4
Dreieckgelenk



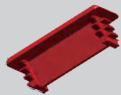
x4
Halterungsbasis
Mittelklemme



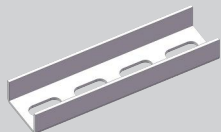
x4
Solarpanel
Seitenklemme



x6
Solarpanel
Mittelklemme



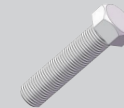
x8
41*21mm Kappe



x4
U-förmig
Verbinder



x8
Expansion
Bolt



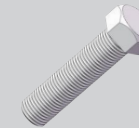
x24
20mm M8
Sechskantschraube



x48
Flache Unterlegscheibe



x16
M8 Flache
Unterlegscheibe



x12
60mm M10
Sechskantschraube



x12
M10 Flanschmutter

Für die Bequemlichkeit
der Anzeige, einige der Bolzen
würde als vereinfachte Abbildung.
Bitte beziehen Sie sich auf das
Material auf jedem Schritt.



1 Bulid der Hauptpole



x2
41*41*1.2*600mm
Stahl mit Perforation



x2
41*41*1.2*200mm
Stahl mit Perforation



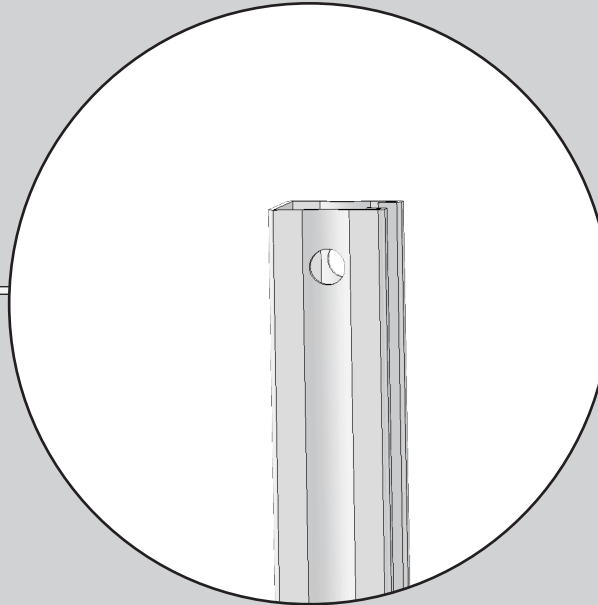
x4
41mm
Haltebasis



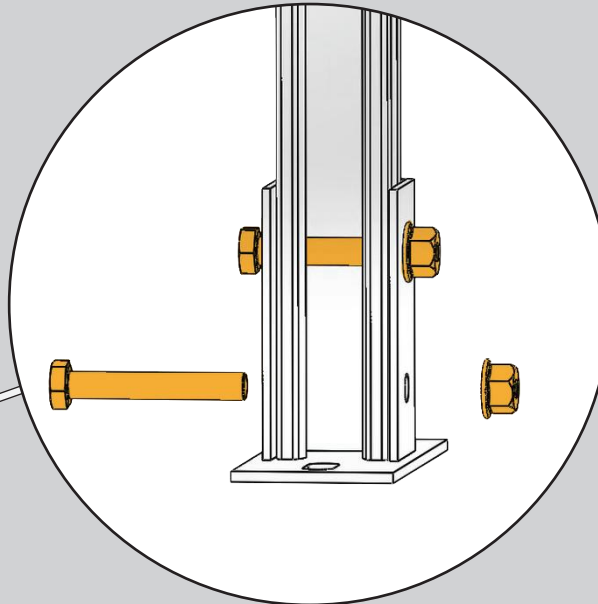
x8
M10 Hex
Kappenschraube



x8
60mm M10
Flanshmutter



Das Ende mit einem Loch nach oben zeigen.

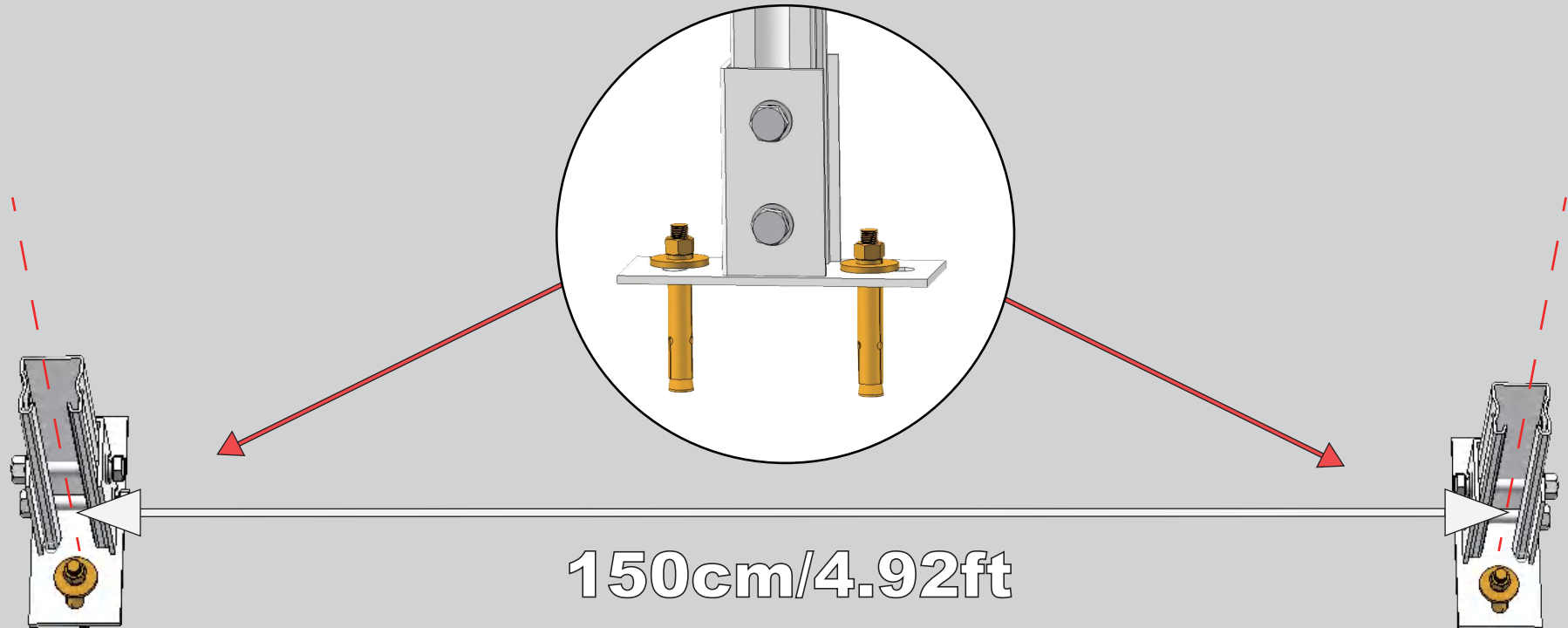


Installieren Sie die Bracket Bases mit den Main Poles mit M10 60mm Sechskantschraube und M10 Flanshmutter.

2 Reparieren Sie die Hauptpole



Der Abstand zwischen den gleichen Säulen muss 150cm/4,92ft betragen.

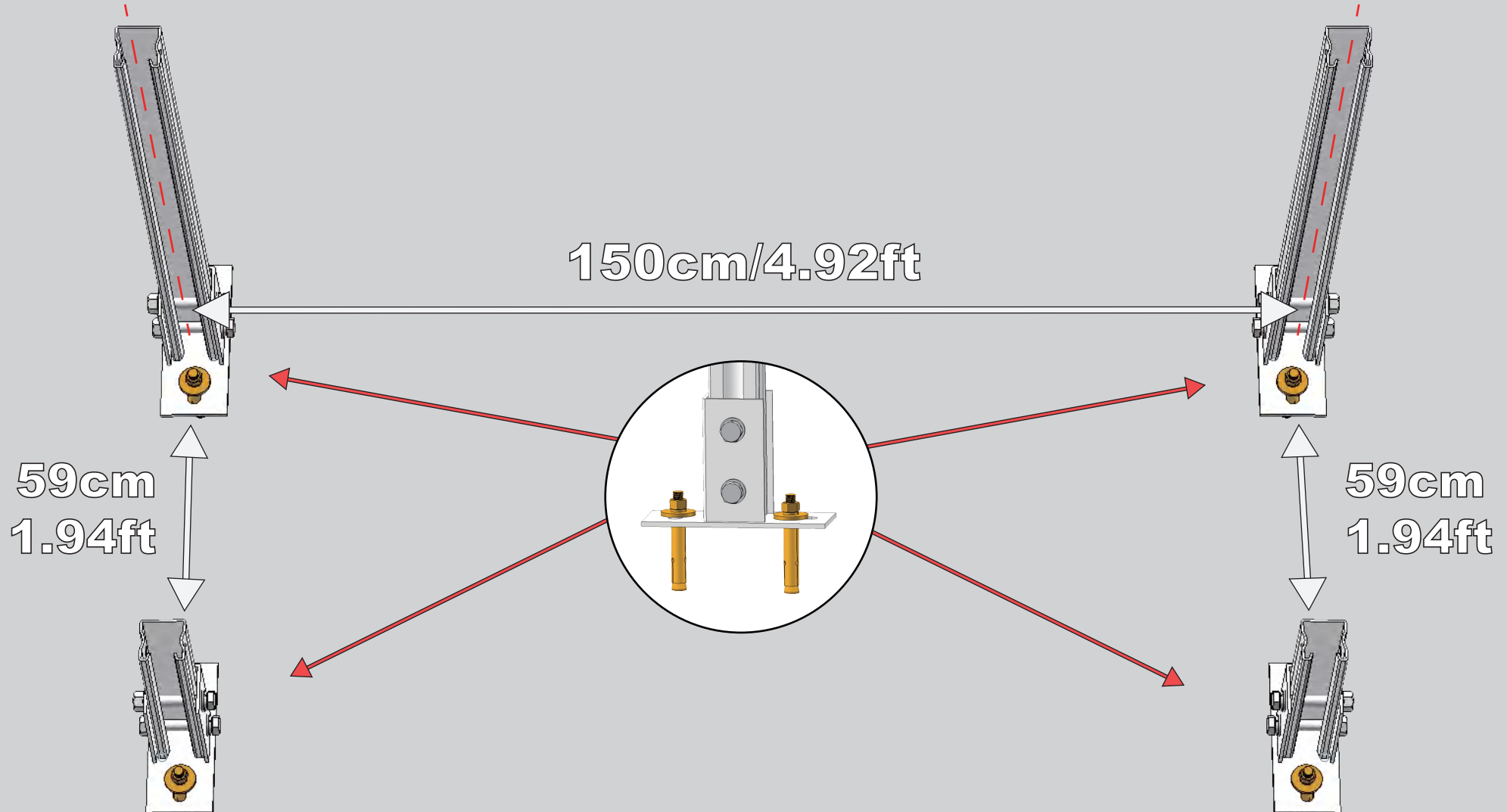


Tipps: Alle konkaven Seiten der Säulen müssen nach Süden ausgerichtet sein.

3 Reparieren Sie die Hauptpole

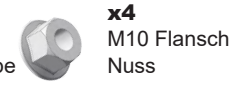
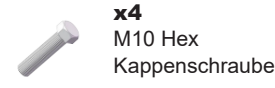


Je näher die langen Stangen und die kurzen Stangen sind, desto mehr neigt sich die Halterung. Wenn der Abstand 59cm beträgt, beträgt der Winkel 28,5°.

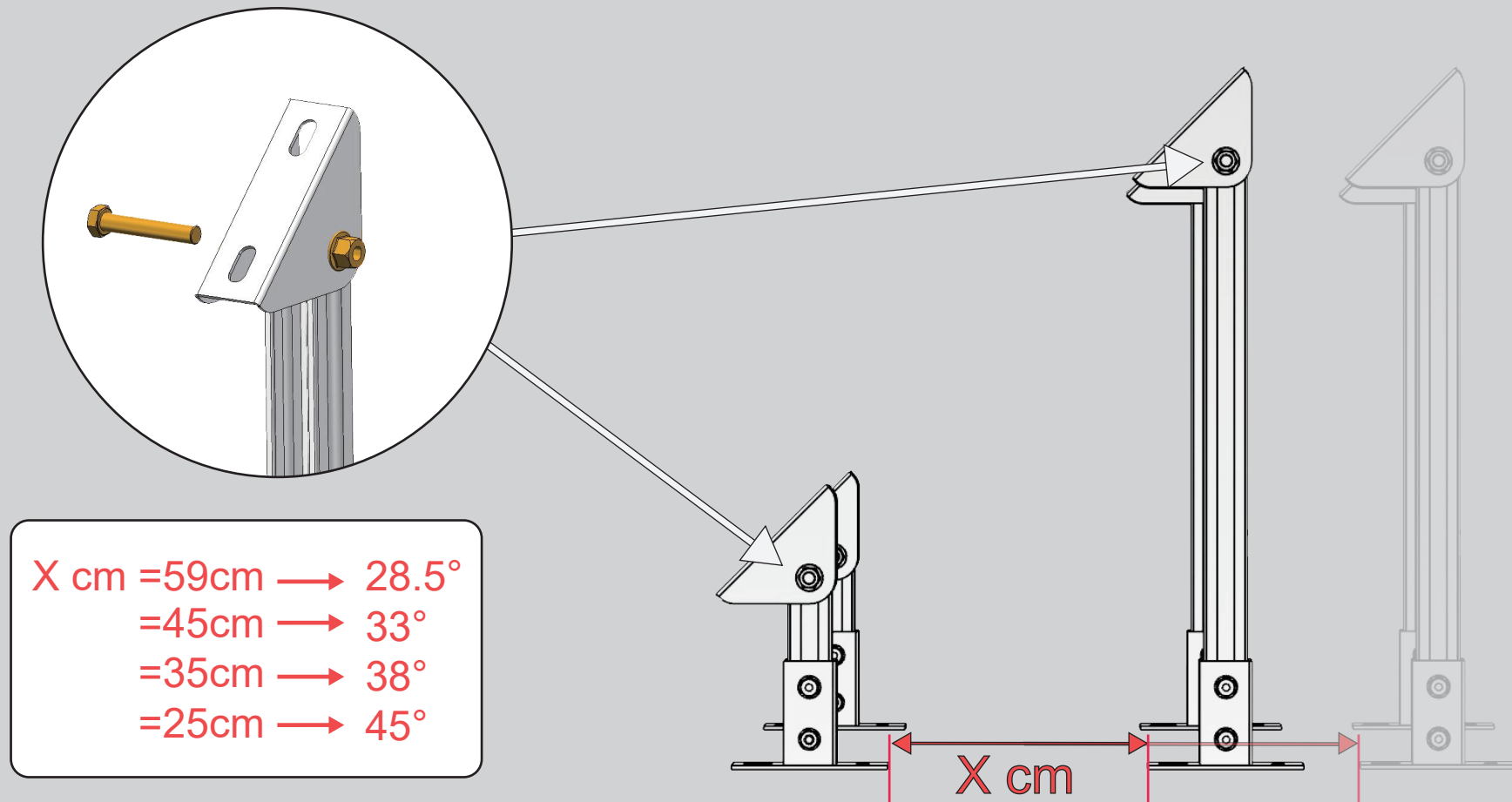


Tipps: Es ist sehr wichtig, den besten Winkel Ihrer Halterung vor der Installation herauszufinden, denn sobald die 4-Sockel befestigt sind, kann der Winkel nicht mehr geändert werden. Bei Problemen wenden Sie sich bitte an den Kundendienst.

4 Verbinden Sie das Dreieck Gemeinsam mit den Polen



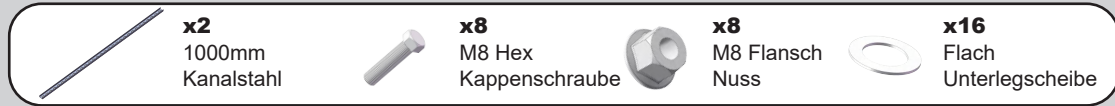
Bestätigen Sie den besten Winkel und verbinden Sie das Dreiecksgelenk mit den Polen. Nehmen Sie Los Angeles als Beispiel, der beste Winkel ist 35°/40°.



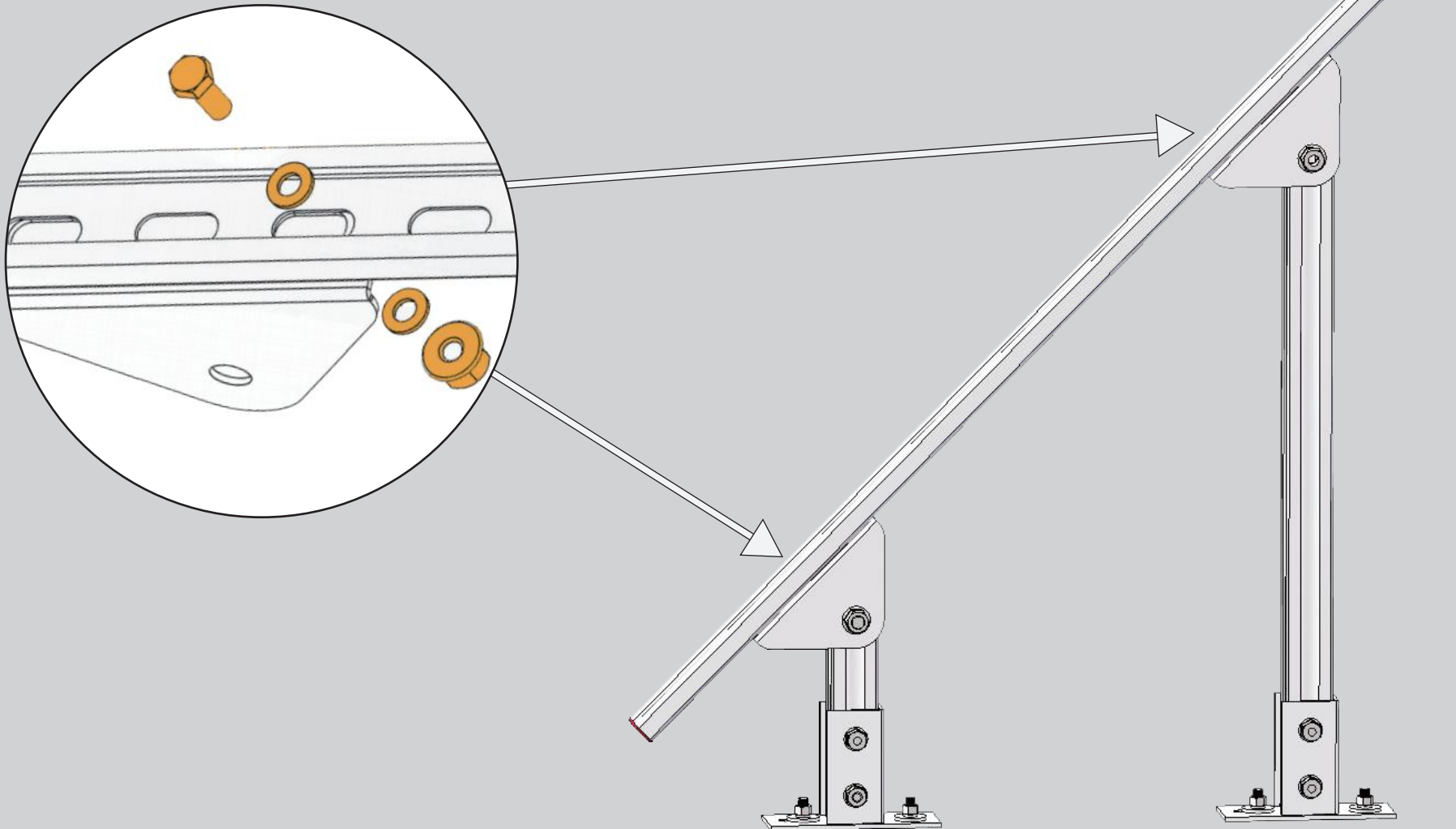
Tipps: Fixieren Sie die Schrauben nicht fest, bevor Sie die Neigungshalterung installieren.

5

Verbinden Sie den Kanal Stahl zum Gelenk



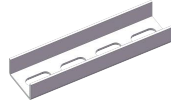
Setzen Sie den Kanalstahl auf den Joint und verbinden Sie sie zusammen, wie die folgende Abbildung zeigt.



6 3m lange Pole bauen mit der Kanal Stahl



x6
1000mm
Kanalstahl



x4
U-förmig
Verbinder



x8
M8 Hex
Kappenschraube



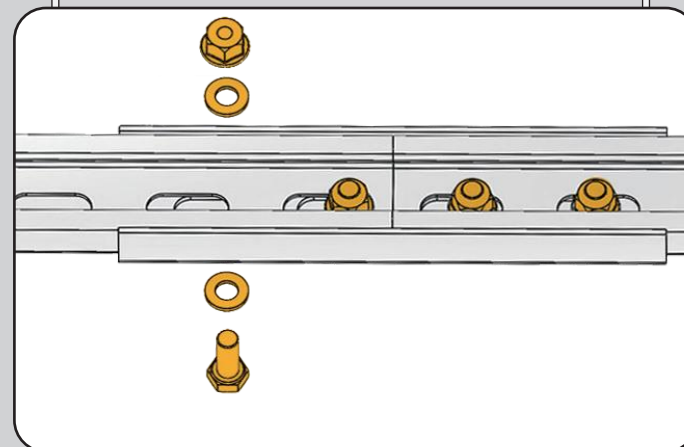
x8
M8 Flansch
Nuss



x16
Flach
Unterlegscheibe



x8
41*21mm
Kappe

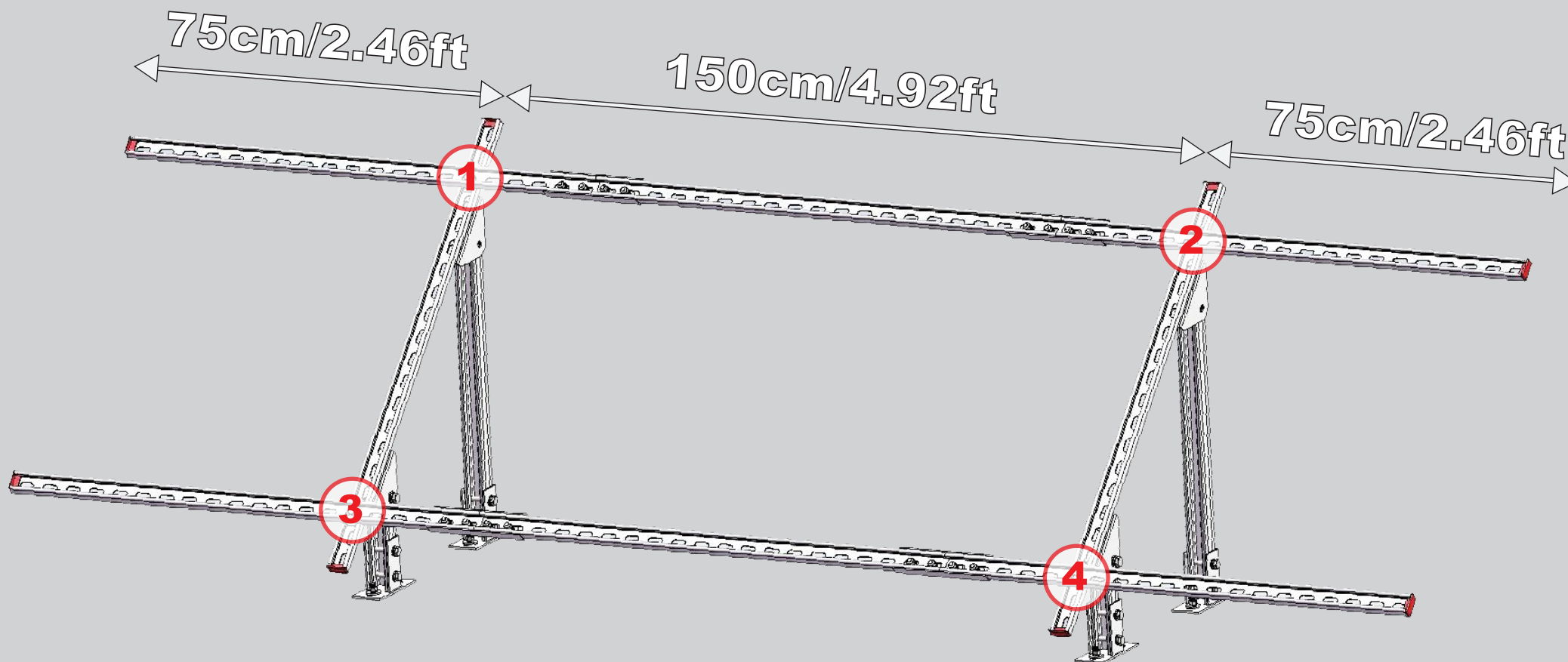
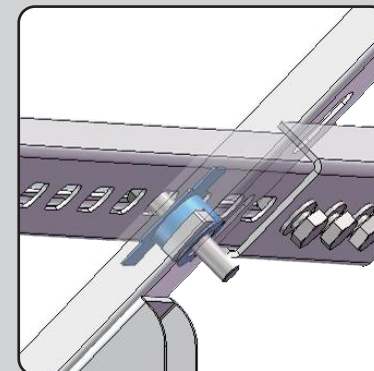
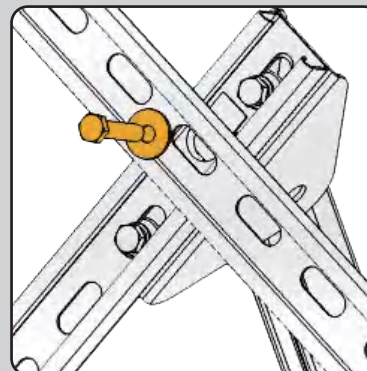


Tipps: Bitte beachten Sie, dass die Verbindung stark angezogen werden muss.

7 Installieren Sie die 3m lange Pole

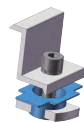


x4
Haltebasis
Mittelklemme

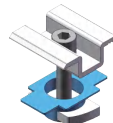


Tipps: Bitte beachten Sie, dass die 3m langen Stangen in der Mitte des Dreiecksgelenks befestigt werden sollten, wie der Zoom in Abb zeigt.

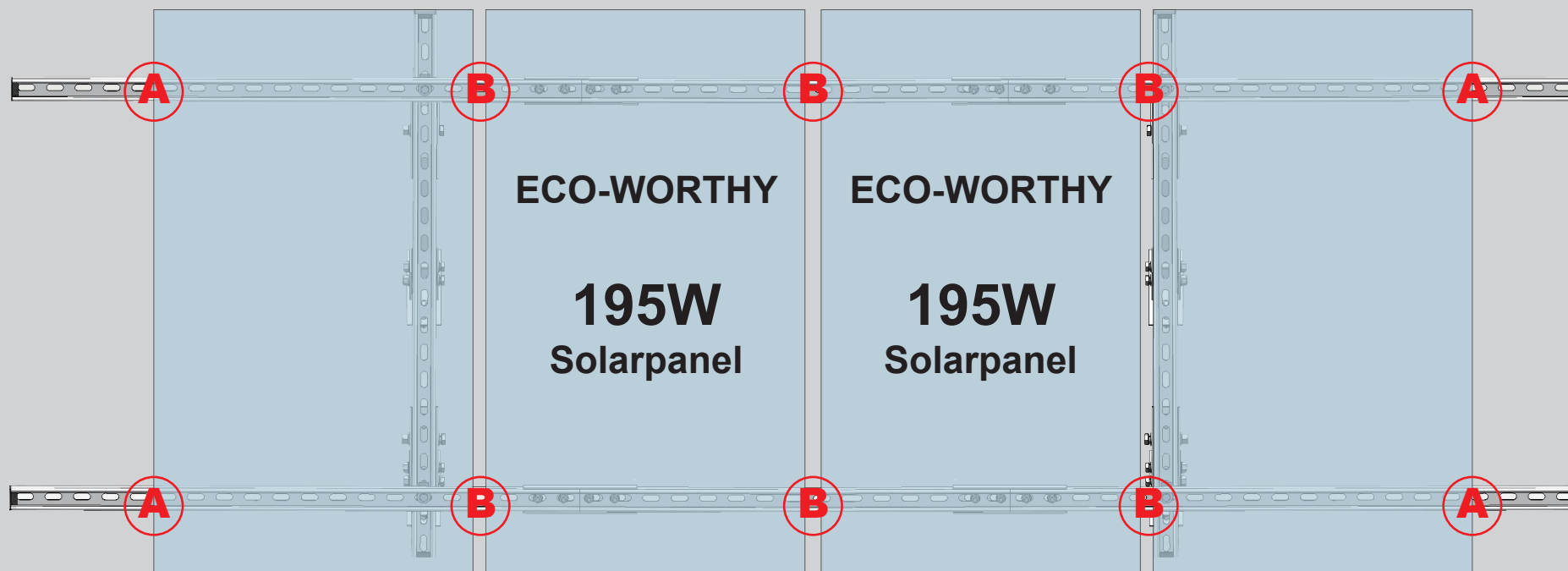
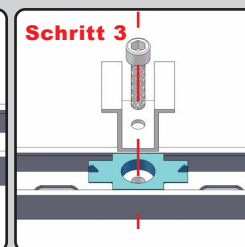
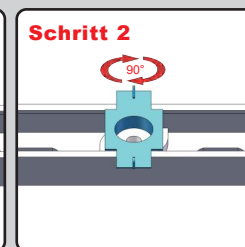
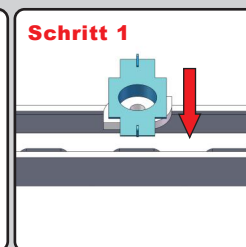
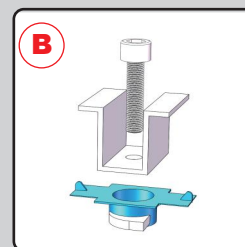
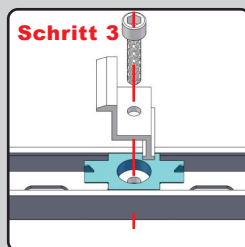
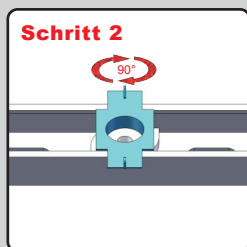
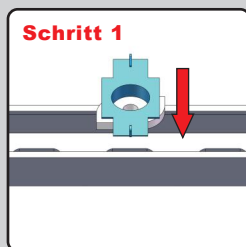
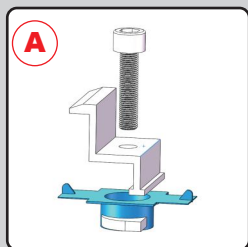
8 Installation Solarpanele



x4
Installation
Solarpanele



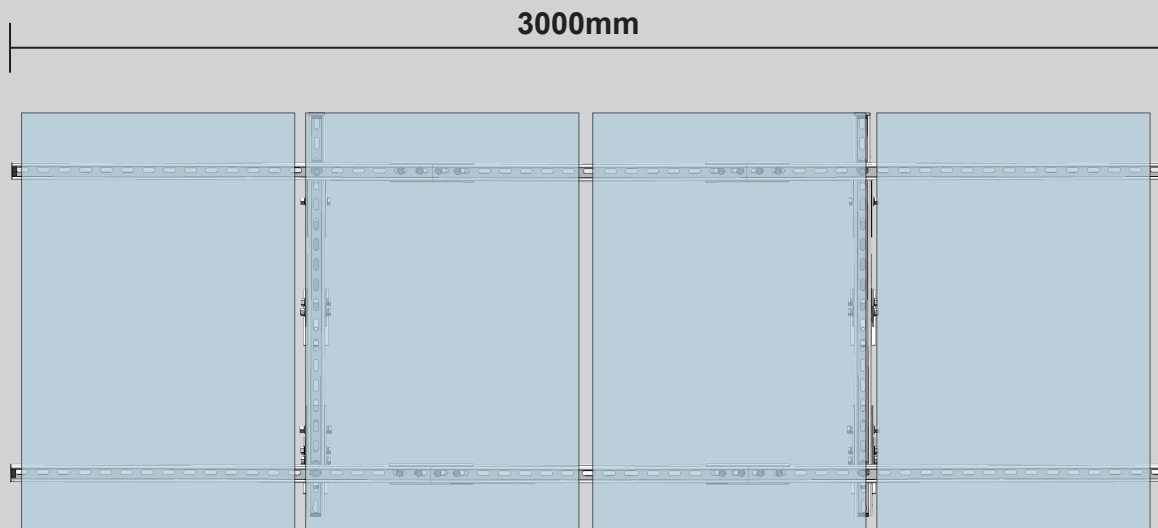
x6
Installation
Solarpanele



Tipps: Nur geeignet für Standard-Solarmodule mit einer Dicke von 35mm.

9

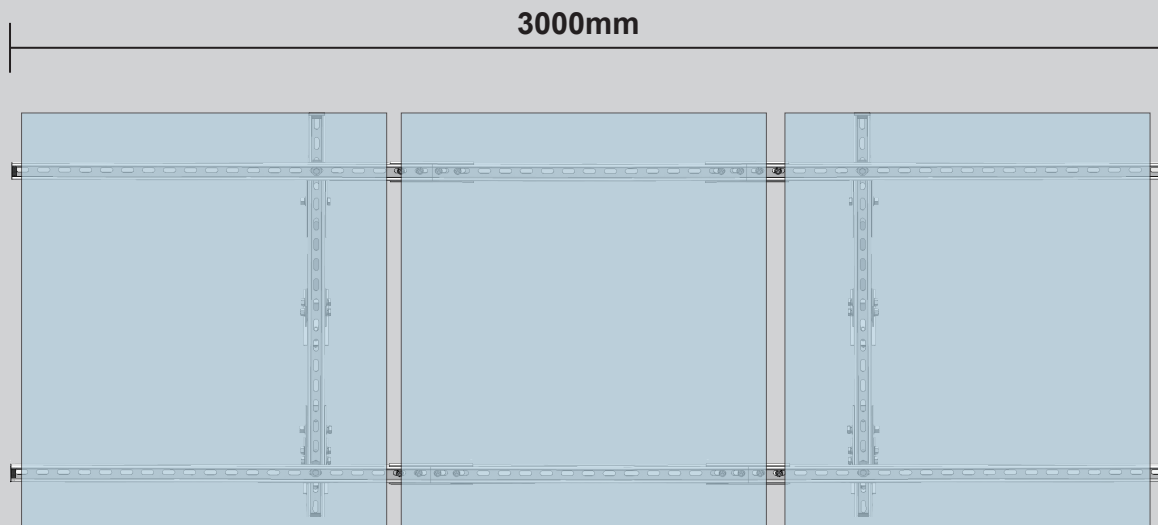
Solarpanel Größenanpassung



**4PCS
Solarpanel**



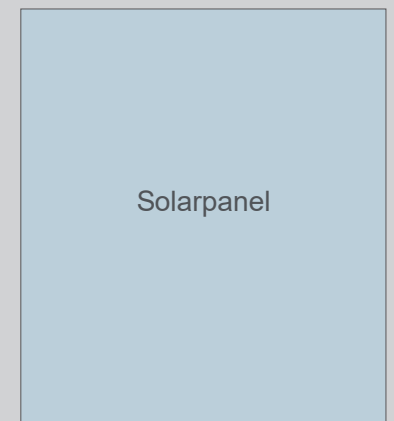
$< 700\text{mm}/27.5\text{in}$



**3PCS
Solarpanel**



$< 930\text{mm}/38.6\text{in}$



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Kontaktnummer:

US: 1-866-939-8222

UK: +44 20 7570 0328

DE: +49 693-1090-113

E-Mail:

customer.service@eco-worthy.com

Installation-Einstellung Video:

