



# **MONTAGEANLEITUNG ASSEMBLY INSTRUCTIONS INSTRUCTIONS DE MONTAGE**

Parkplatzüberdachung  
Car park canopy  
Abri voiture

PP2-G6300 / PP2-A6300 / PP4-G12600 / PP4-A12600 / PP2-G / PP2-A / PP4-G / PP4-A



Bitte lesen Sie vor der Verwendung des Produktes unbedingt dieses Handbuch und folgen den darin enthaltenen Anweisungen!

Please read this manual before using the product and follow the instructions it contains!

Veuillez lire ce manuel avant d'utiliser le produit et suivre les instructions qu'il contient!

## ALLGEMEIN

Vorwort	3
Sicherheitshinweise	3
Stückliste	4
Montage Grundfeld	7
Montage Schaltschrank und LED-Leuchte	16
Montage Anbaufeld	18

## WARTUNG

Service & Kontakt	21
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## VORWORT

Herzlichen Glückwunsch zum Kauf Ihrer neuen Parkplatzüberdachung. Die Parkplatzüberdachung wurde aus hochwertigen Materialien, speziell für einen dauerhaften und zuverlässigen Einsatz, gefertigt. Zu Ihrer eigenen Sicherheit und zum korrekten Betrieb der elektrischen Komponenten lesen und beachten Sie unbedingt vor Inbetriebnahme diese Bedienungsanleitung. Heben Sie diese Betriebsanleitung auf. Prüfen Sie die Solarmodule und das Stahlgestell auf Transportschäden. Schadhafte Komponenten dürfen nicht in Gebrauch genommen werden. Die Parkplatzüberdachung dient vor allem zum Unterstellen von Fahrzeugen und dem Erzeugen von ökologischem Strom. Bei unsachgemäßer Handhabung kann es zu Verletzungen oder Schäden an den Geräten kommen. Jedwede Haftung für Schäden, die sich aus der zweckentfremdeten Nutzung der einzelnen Komponenten oder der Missachtung von Vorgaben und Verhaltensregeln dieser Bedienungsanleitung ergeben ist ausgeschlossen. Die Sicherstellung der korrekten Verwendung durch autorisierte Personen obliegt dem Betreibenden.

## SICHERHEITSHINWEISE

- Beim Transport der gesamten Parkplatzüberdachung ist auf den Schwerpunkt zu achten. Herabfallende Komponenten können beschädigt werden oder Verletzungen verursachen.
- Transportieren Sie das Produkt mithilfe von geeignetem Hebezeug. Vermeiden Sie ruckartige Bewegungen während des Transports, um Kippen zu vermeiden.
- Bauen Sie die Parkplatzüberdachung nur an Orten auf, für die Sie eine baurechtliche Genehmigung haben und fixieren Sie diese sicher. Wenden Sie sich gegebenenfalls an das lokal zuständige Amt oder die zuständige Behörde, um baurechtliche Pflichten abzuklären.
- Es obliegt dem Eigentümer sich um die baurechtlichen Genehmigungen zu kümmern. Diese unterscheiden sich je nach Aufstellungsort (bspw. Land / Bundesland / Stadt).
- Stellen Sie sicher, dass Bediener und Monteure diese Anleitung gelesen haben und die Vorschriften für sicheres Arbeiten befolgen.
- Halten Sie unbefugte Personen, insbesondere Kinder, von den elektrischen Einrichtungen fern.
- Änderungen an der Parkplatzüberdachung dürfen niemals selbst durchgeführt werden.
- Verwenden Sie die Komponenten nur in vollständig montiertem Zustand.
- Verwenden Sie die elektrischen Komponenten nicht in explosionsgefährdeter Umgebung.
- Wartungs- und Instandhaltungsmaßnahmen sind regelmäßig durch Fachkundige nach gültigen regionalen Normen und Bestimmungen durchzuführen. Elektrotechnische Arbeiten dürfen nur durch Elektrofachkräfte oder unter deren Leitung und Aufsicht ausgeführt werden.
- Nehmen Sie keine Modifikationen oder Veränderungen ohne die Einwilligung des Herstellers an den Geräten vor und nutzen Sie mit diesem System nur Komponenten der Marke SoloPort. Zuwiderhandlung führt zu Gewährleistungsausschluss.
- Tragen Sie während des Aufbaus geeignete persönliche Schutzausrüstung (PSA), wie Sicherheitsschuhe, Handschuhe, Helm und Schutzbrille.

## AUSSTATTUNG

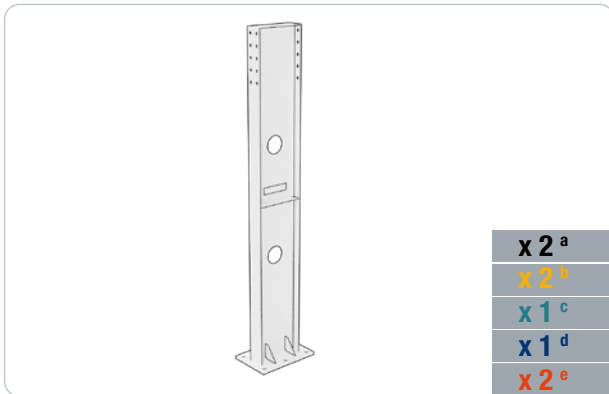
Ausstattung / Zubehör	PP2-G6300 PP2-A6300	PP4-G12600 PP4-A12600	PP2-G PP4-G PP2-A PP4-A	PP2/40-G6300
15 Solarmodule	x			x
30 Solarmodule		x		
Stahlgestell	x	x	x	x
Schaltschrank				x
Wallbox				x
Wechselrichter				x
Tastenfeld				x
Leuchte mit Bewegungsmelder				x
Erdungsspieß				x



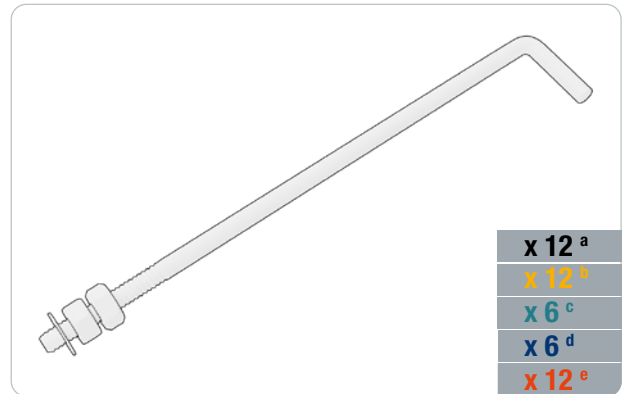
Beachten Sie bei der Montage Ihr Modell mit der entsprechenden Ausstattung.

# STÜCKLISTE

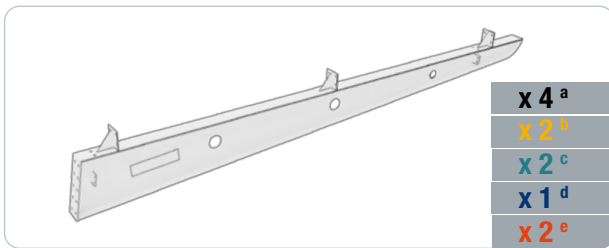
## A Stützpfeiler



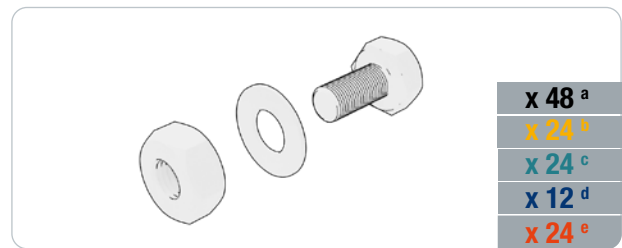
## B M28 x 900 Betonbolzenanker



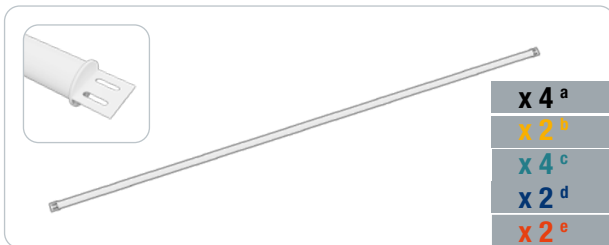
## C Dachträger



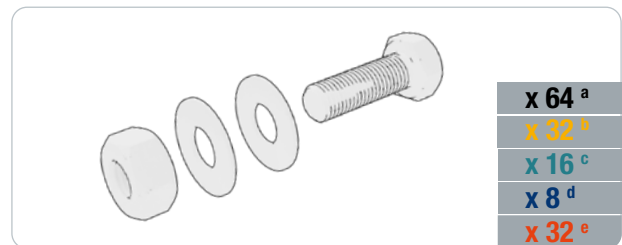
## D M20 x 40 Sechskantschrauben



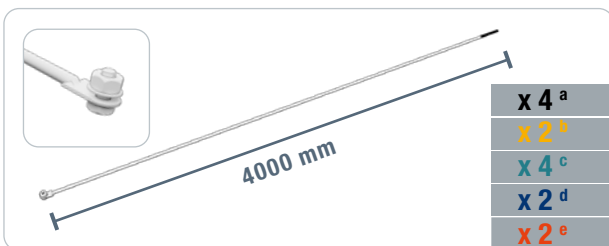
## E Distanzstreben



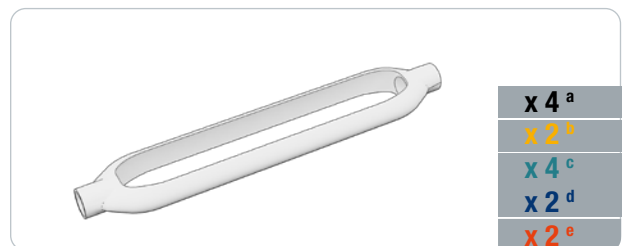
## F M12 x 35 Sechskantschrauben



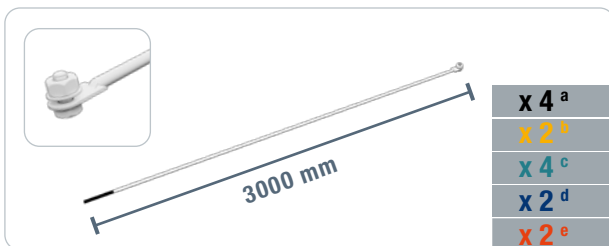
## G Diagonalstrebe 4000 mm



## H Diagonal-Spanner



## I Diagonalstrebe 3000 mm



## J Schiene mit C-Profil



<sup>a</sup> Stückzahl für PP4-G12600 / PP4-G

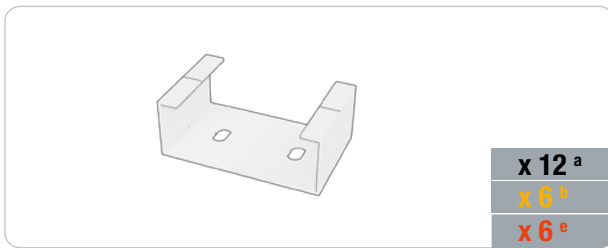
<sup>b</sup> Stückzahl für PP2-G6300 / PP2-G

<sup>c</sup> Stückzahl für PP4-A12600 / PP4-A

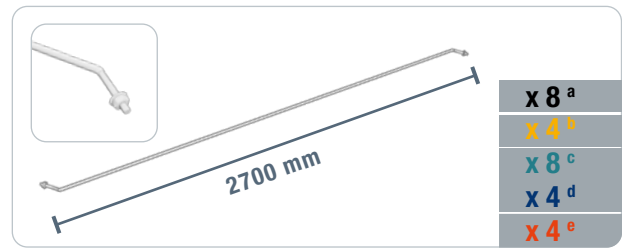
<sup>d</sup> Stückzahl für PP2-A6300 / PP2-A

<sup>e</sup> Stückzahl für PP2/40-G6300

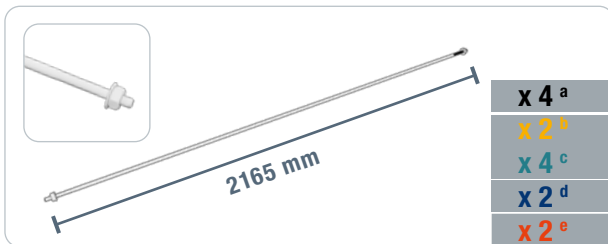
### K Verbindungsstück mit C-Profil



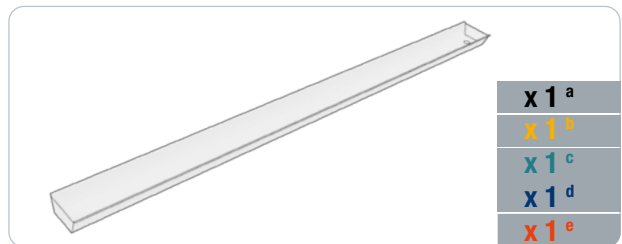
### L Diagonalstrebe



### M Längsstrebe



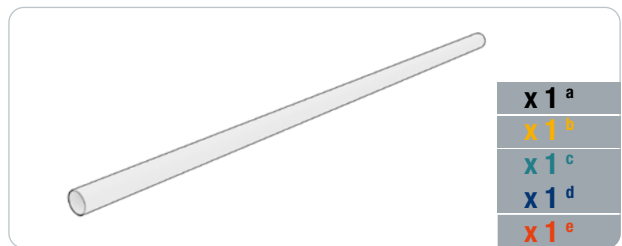
### N Regenrinne



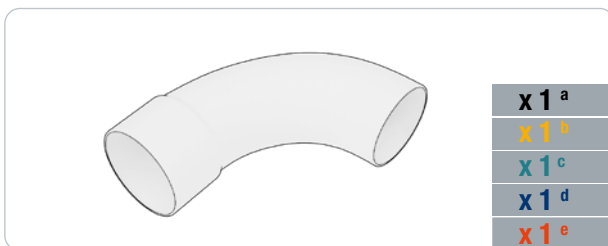
### O M6,3 x 25 selbstschneidende Schrauben



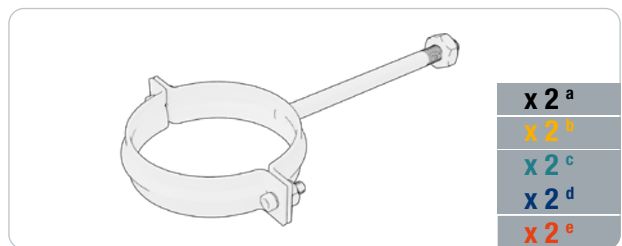
### P Fallrohr



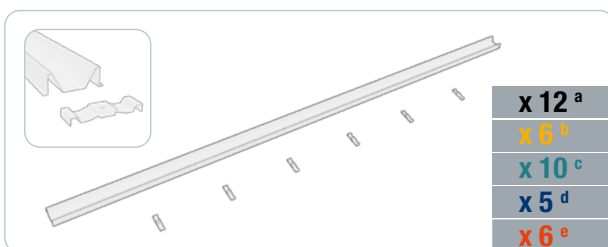
### Q Winkelstück Fallrohr



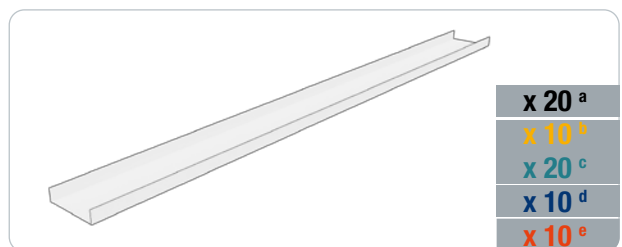
### R Schelle für Fallrohr



### S Schiene mit M-Profil



### T Schiene mit U-Profil



<sup>a</sup> Stückzahl für PP4-G12600 / PP4-G

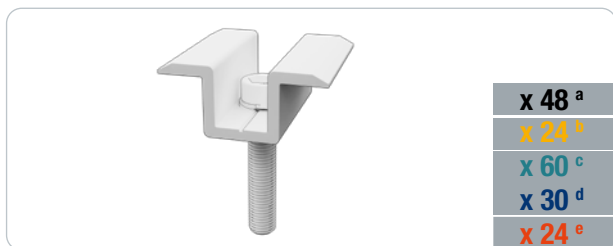
<sup>b</sup> Stückzahl für PP2-G6300 / PP2-G

<sup>c</sup> Stückzahl für PP4-A12600 / PP4-A

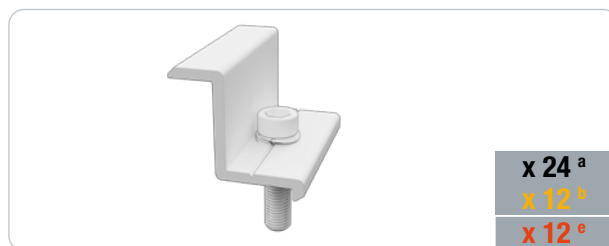
<sup>d</sup> Stückzahl für PP2-A6300 / PP2-A

<sup>e</sup> Stückzahl für PP2/40-G6300

## U Mittlere Klemme



## V Äußere Klemme



## W Schaltschrank



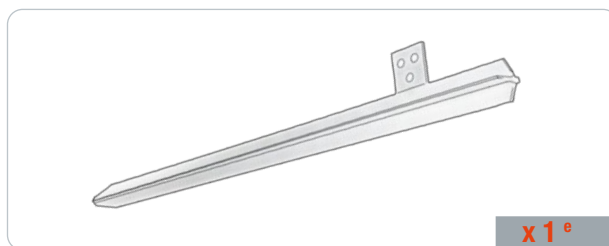
## X LED-Leuchte



## Y Bewegungsmelder



## Z Erdspeiß



Solarmodule sind in der Stückliste nicht enthalten. Diese finden Sie auf dem Lieferschein.



Für die Montageanleitung der Anbaufelder, siehe Seite 18.



Beachten Sie bei der Montage und den weiteren Anweisungen der Anleitung Ihr Modell mit der entsprechenden Ausstattung.

<sup>a</sup> Stückzahl für PP4-G12600 / PP4-G

<sup>b</sup> Stückzahl für PP2-G6300 / PP2-G

<sup>c</sup> Stückzahl für PP4-A12600 / PP4-A

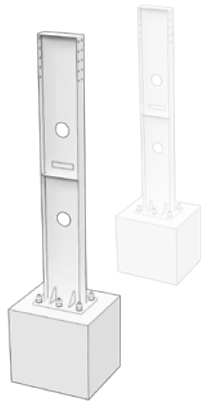
<sup>d</sup> Stückzahl für PP2-A6300 / PP2-A

<sup>e</sup> Stückzahl für PP2/40-G6300

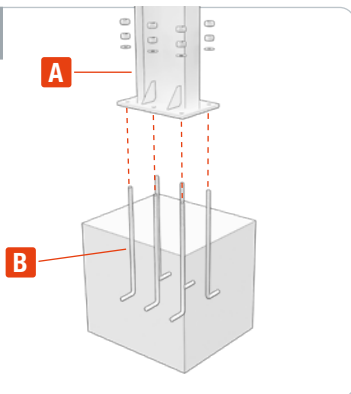
## MONTAGE GRUNDFELD

1

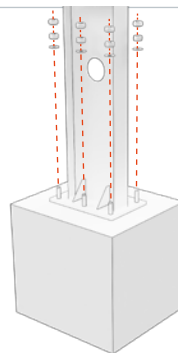
2x



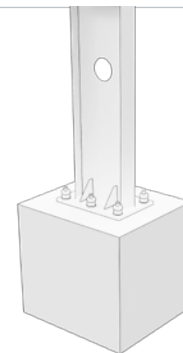
1-1



1-2



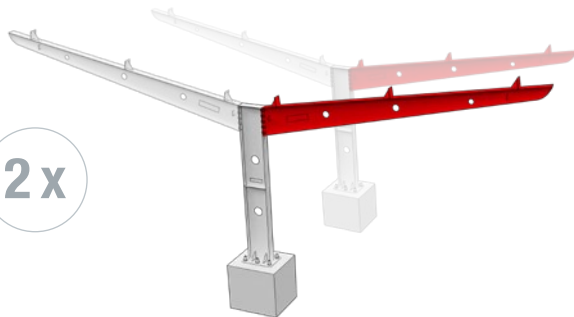
1-3



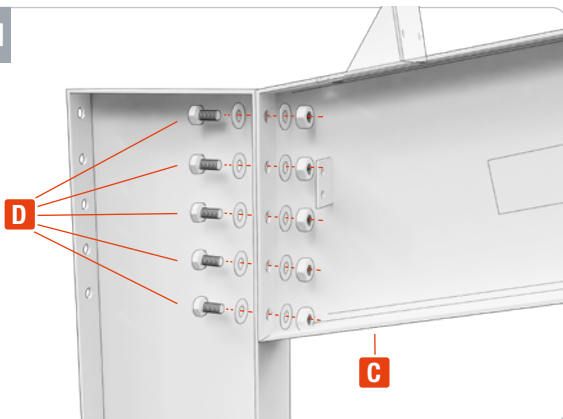
Gießen Sie zwei Zementfundamente, welche für die Parkplatzüberdachung ausreichend dimensioniert sind. Achten Sie hier auf die ideale Betonmischung und Fundamenttiefe. Befestigen Sie jeweils einen Stützpfeiler (A) in einem Fundament. Nutzen Sie hierfür die beigelegten M28 x 900 Betonbolzenanker (B) und ziehen Sie diese mit den beiliegenden Muttern und Schrauben fest an.

2

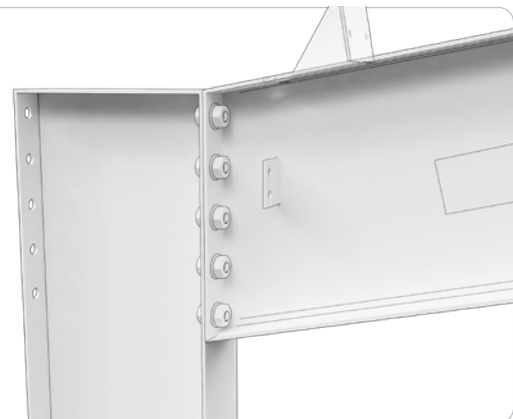
2x



2-1

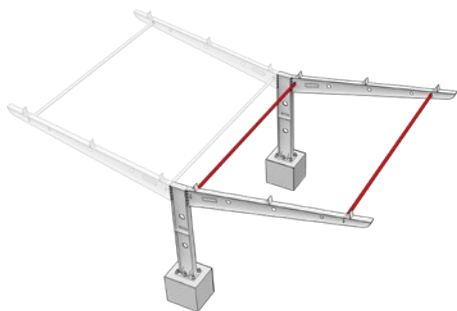


2-2



Montieren Sie die Dachträger (C) mit den M20 x 40 Sechskantschrauben (D) inkl. Muttern und Unterlegscheiben auf den Stützpfeilern (A).

3

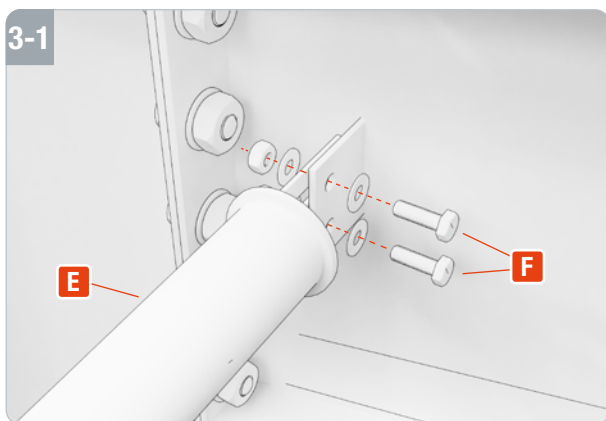


E 2 x

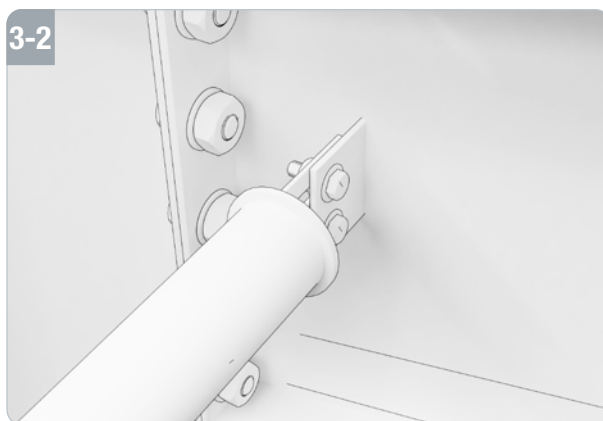


F 8 x

3-1

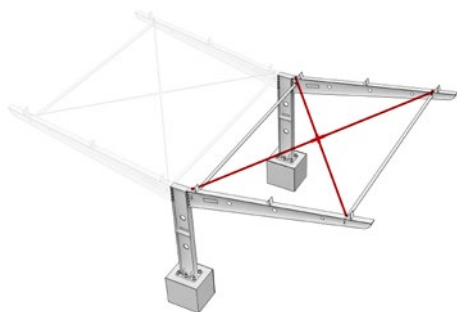


3-2



Befestigen Sie die Distanzstreben (E) an den Dachträgern (C) mit den gelieferten M12 x 35 Sechskantschrauben (F), Muttern und Unterlegscheiben

4



D 20 x



G 2 x

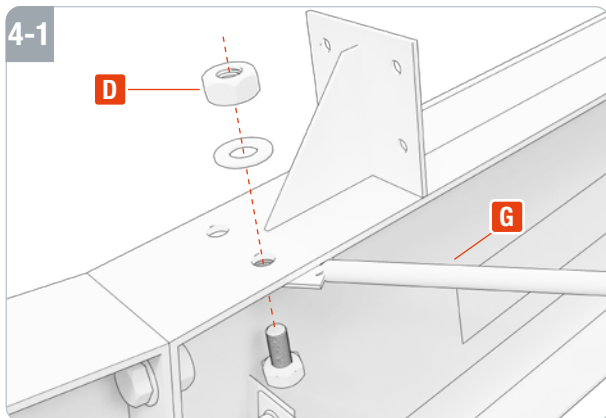


H 2 x

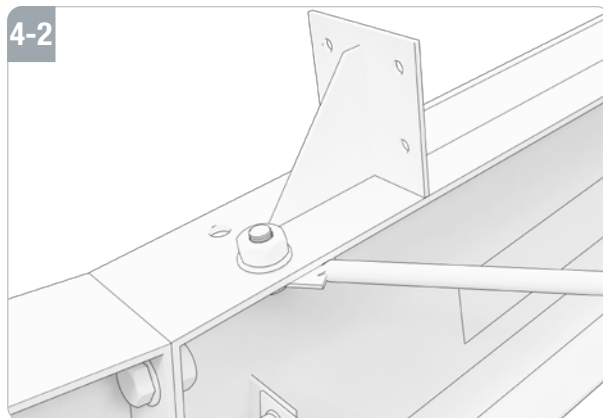


I 2 x

4-1



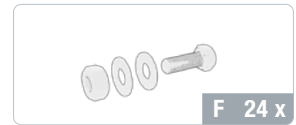
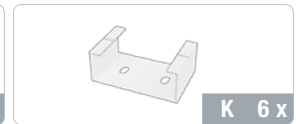
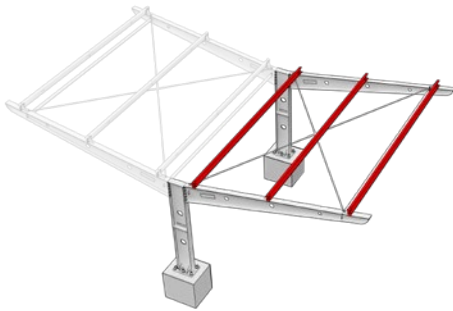
4-2



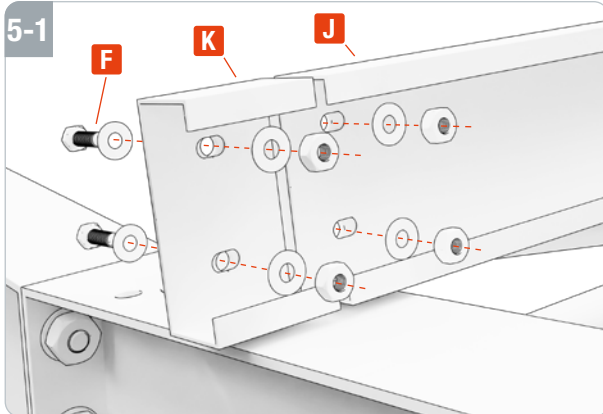
Stecken Sie die Diagonalstrebe (G) und die Diagonalstrebe (I) mit dem Diagonal-Spanner (H) zusammen. Montieren Sie die verbundenen Diagonalstreben (G) und (I) mit dem Diagonal-Spanner (H) überkreuzt an den Dachträgern (C). Verwenden Sie hierfür die beiliegenden M20 x 40 mm Sechskantschrauben, Muttern und Unterlegscheiben (D).



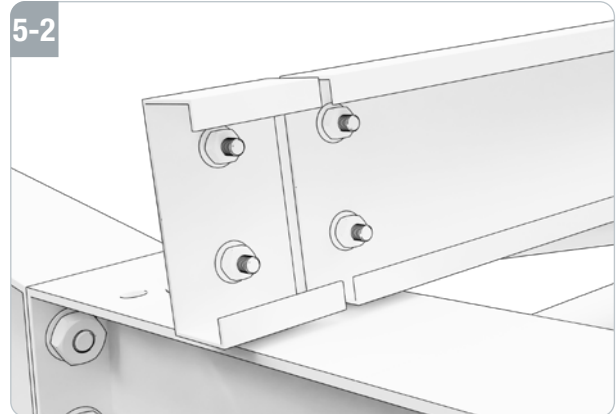
5



5-1

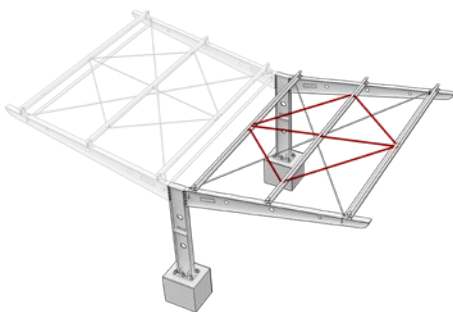


5-2

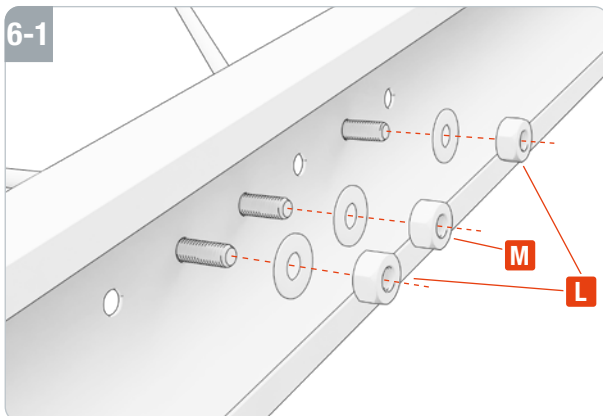


Befestigen Sie die Schiene mit C-Profil (J) an die zwei inneren Löcher des bereits montierten Winkels der Dachträger (C). An den beiden äußeren Löchern des Winkels verschrauben Sie die Verbindungsstücke mit C-Profil (K) und ziehen diese fest an. Nutzen Sie hierfür die mitgelieferten M12 x 35 Sechskantschrauben (F) inkl. Muttern und Unterlegscheiben.

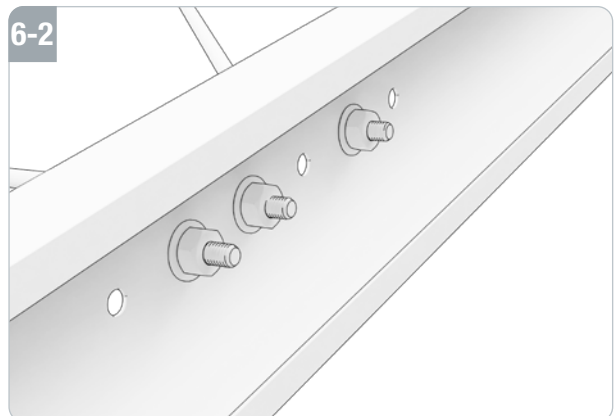
6



6-1

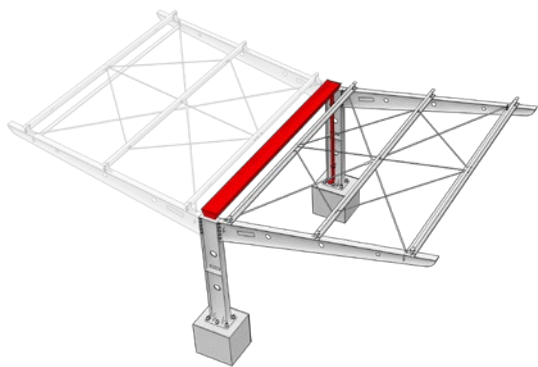


6-2

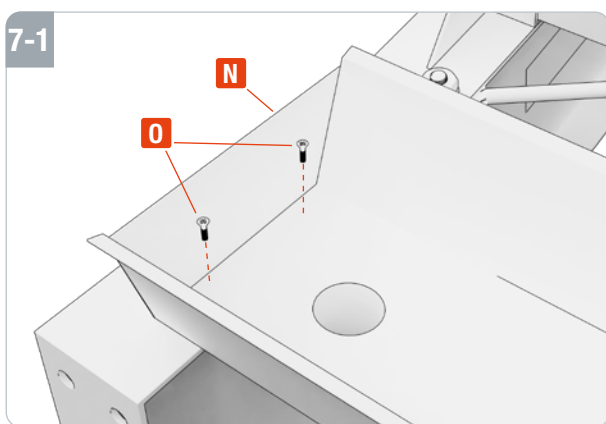


Stecken Sie die Diagonalstrebe (L) und Längsstrebe (M) durch die vorgesehenen Löcher der Schiene mit C-Profil (J). Ziehen Sie die Diagonalstreben (L) und Längsstreben (M) mit den beiliegenden Muttern und Unterlegscheiben an.

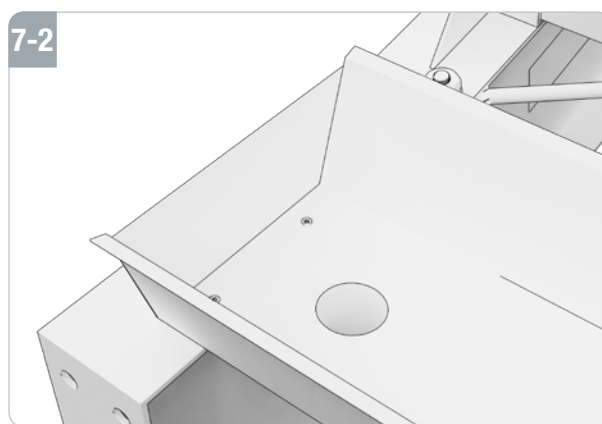
7



7-1

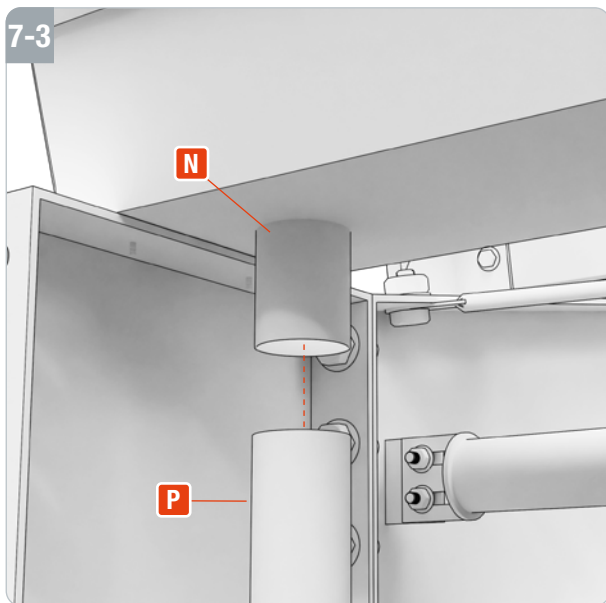


7-2

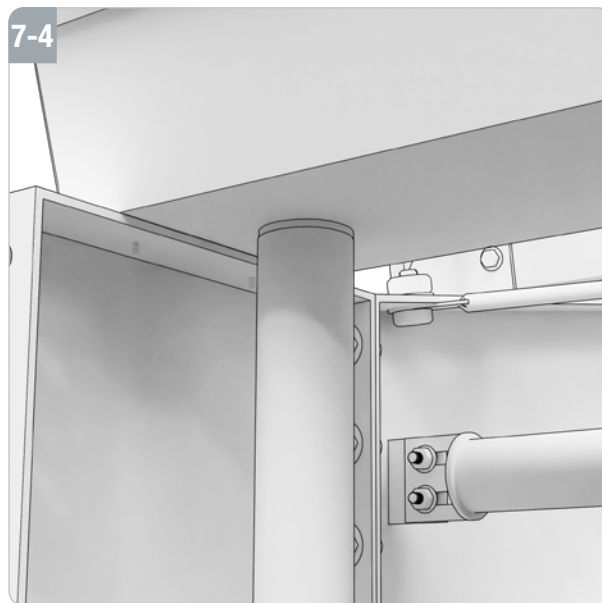


Befestigen Sie die Regenrinne (N) mit den vier M6,3 x 25 selbstschneidende Schrauben (O) an den beiden Stützpfosten (A).

7-3

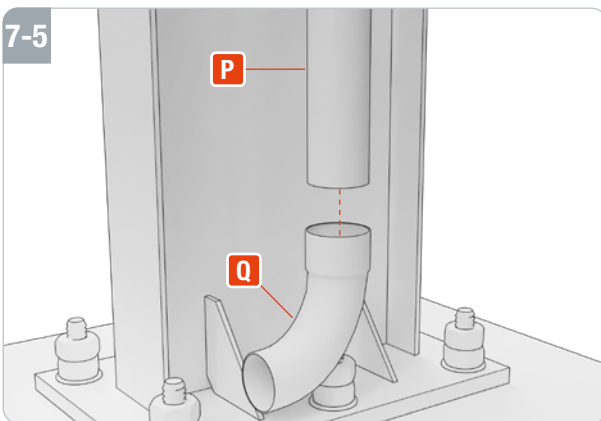


7-4

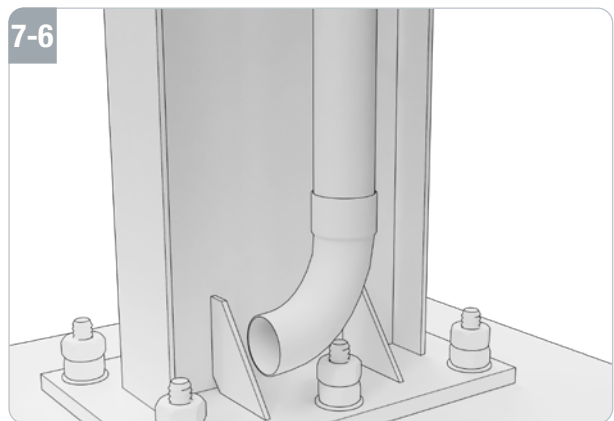


Stecken Sie anschließend das Fallrohr (P) in das vorgesehene Loch der Regenrinne (N).

7-5

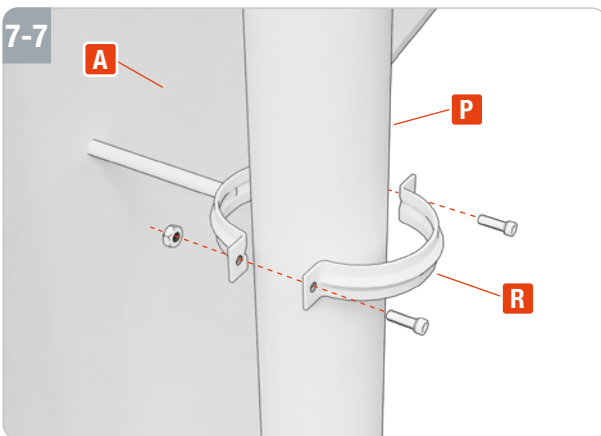


7-6

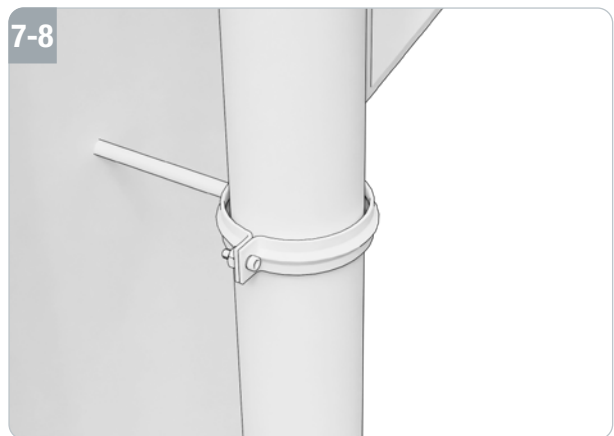


Auf das untere Ende des Fallrohrs (P) stecken Sie das Winkelstück (Q).

7-7

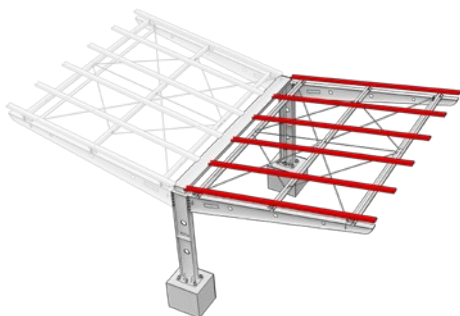


7-8

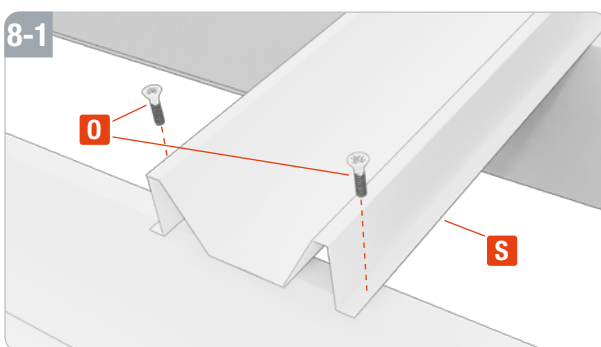


Mit den beiden mitgelieferten Schellen (R) inkl. Schrauben können Sie das Fallrohr (P) an den Stützposten (A) verschrauben.

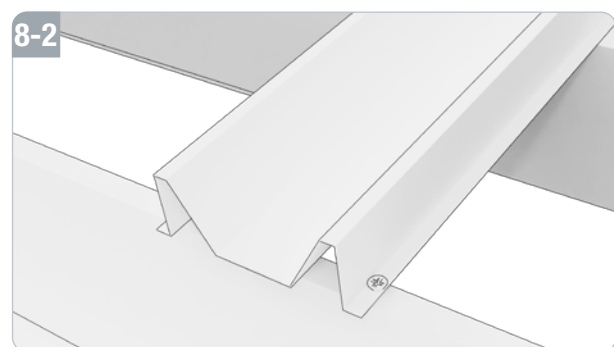
8



8-1

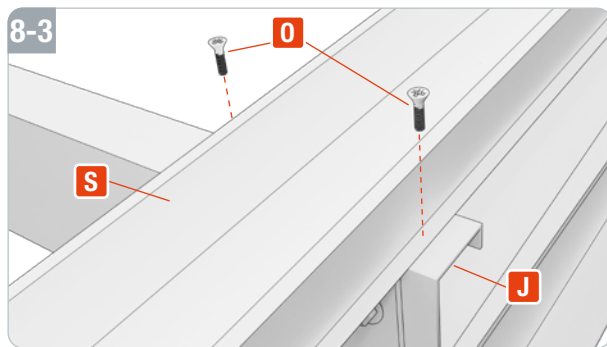


8-2



Legen Sie die Schienen mit M-Profil (S) in gleichmäßigem Abstand von 1154 mm parallel zu den Dachträgern (C). Verschrauben Sie zuerst die Enden der Schienen mit M-Profil (S) an der Regenrinne (N) mit den M6,3 x 25 selbstschneidende Schrauben (O).

8-3

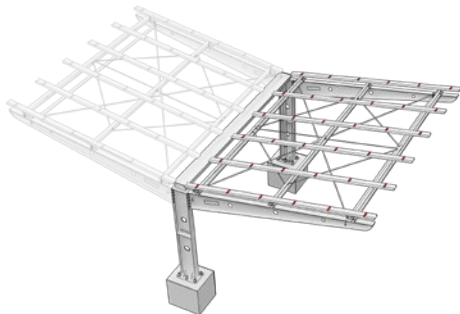


8-4

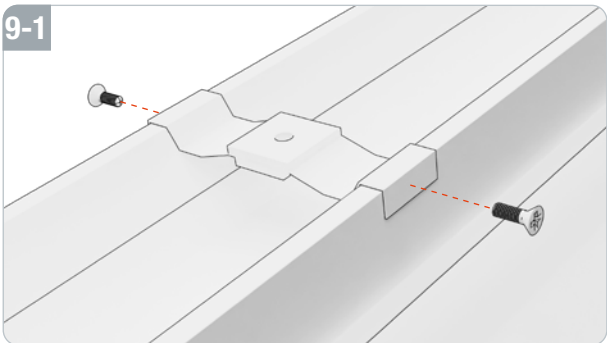


Anschließend nutzen Sie weiterhin die M6,3 x 25 selbstschneidende Schrauben (O), um die Schienen mit M-Profil (S) an die Schienen mit C-Profil (J) zu montieren.

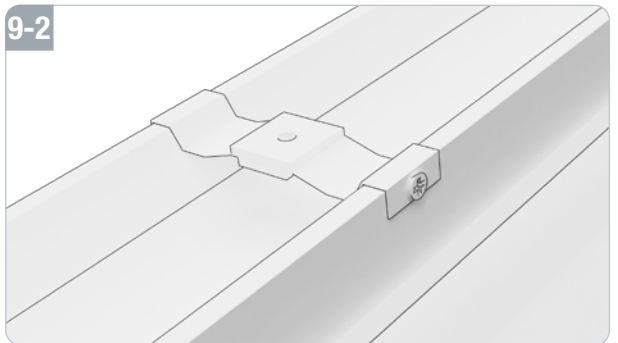
9



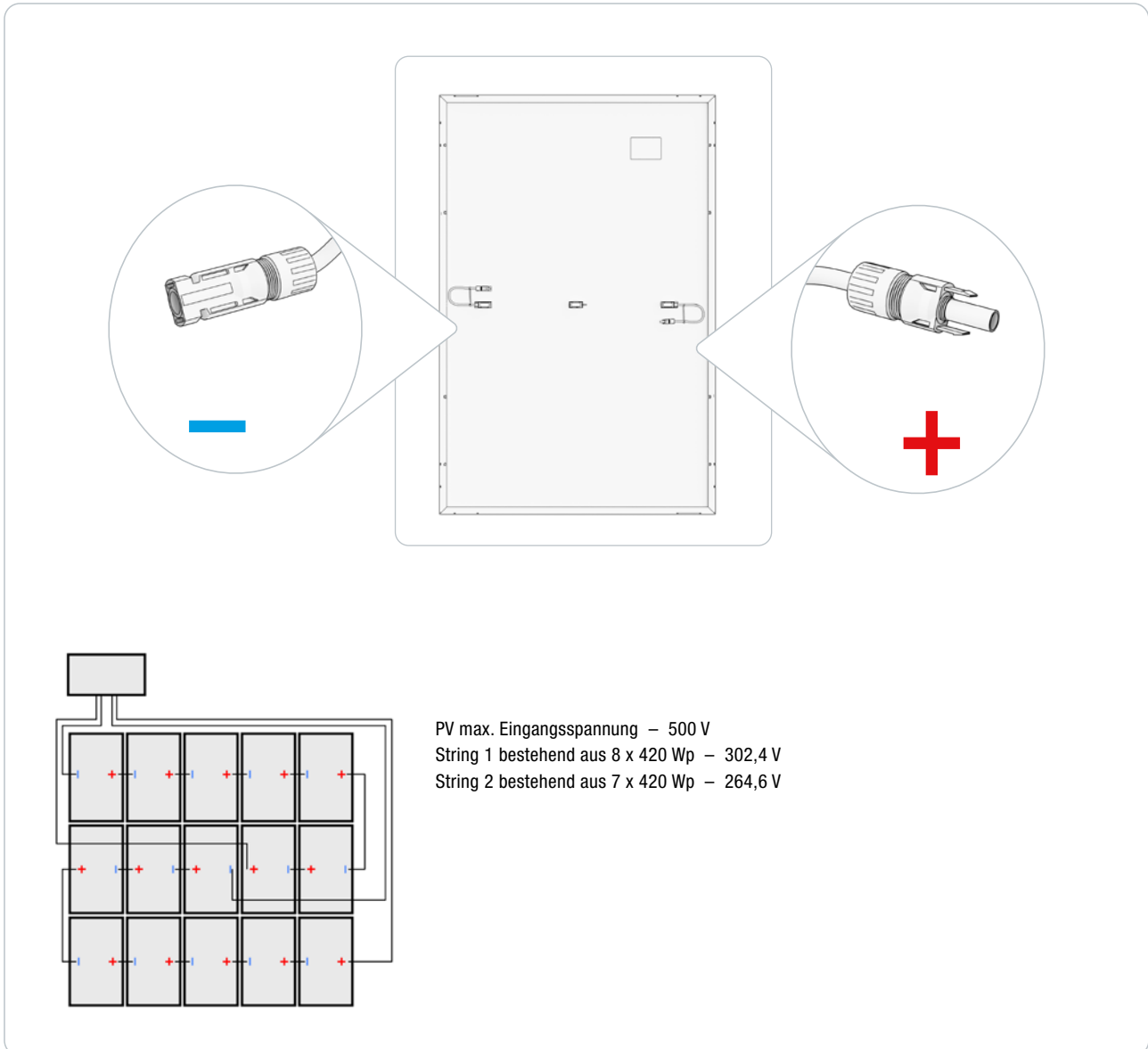
9-1



9-2

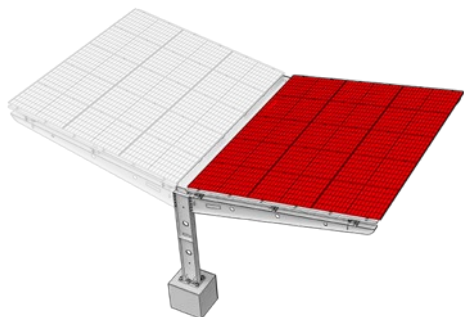


Danach schrauben Sie die mitgelieferten Klammern mit den M6,3 x 25 selbstschneidende Schrauben (O) auf die Schienen mit M-Profil (S). Auf einer Schiene mit M-Profil (S) werden sechs Klammern befestigt.

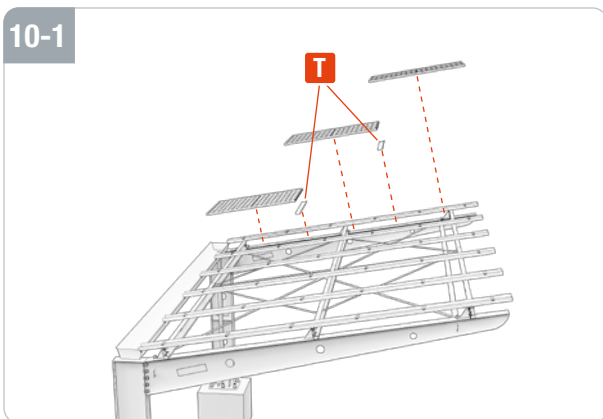


Achten Sie darauf, dass die Solarmodule, als 2 Reihenschaltungen angeschlossen werden müssen.  
 Dafür schließen Sie 8 Solarmodule an String 1 und 7 Solarmodule an String 2 an.  
 Verbinden Sie die +/- Stecker erst wenn die Solarmodule fest montiert sind.

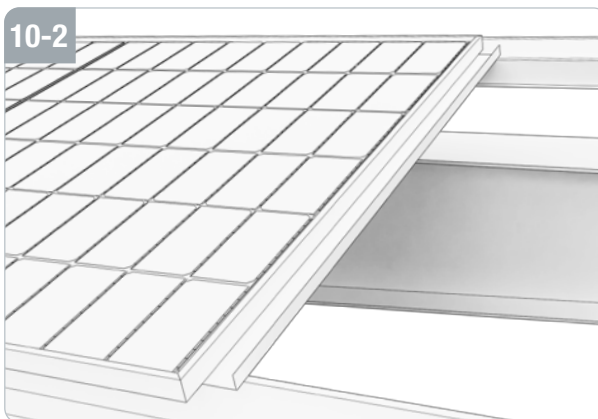
10



10-1

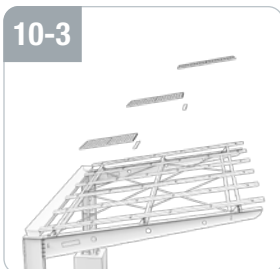


10-2

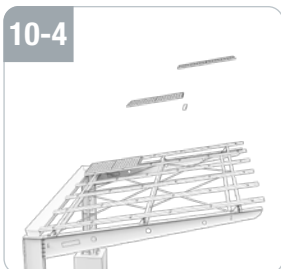


Legen Sie die Schiene mit U-Profil (T) quer zwischen die Schiene mit M-Profil (S). Platzieren Sie zwei Schienen mit U-Profil (T) ober- und unterhalb des mittleren Solarmoduls pro 3er-Reihe.

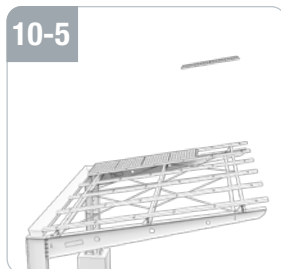
10-3



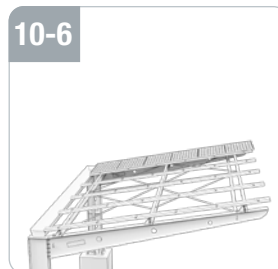
10-4



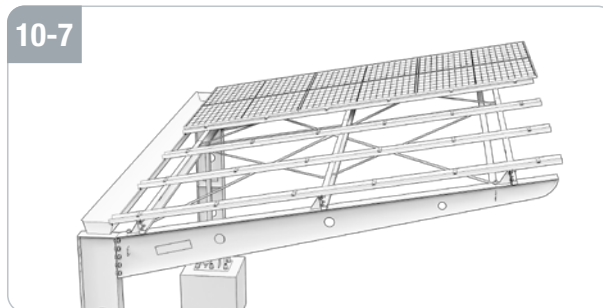
10-5



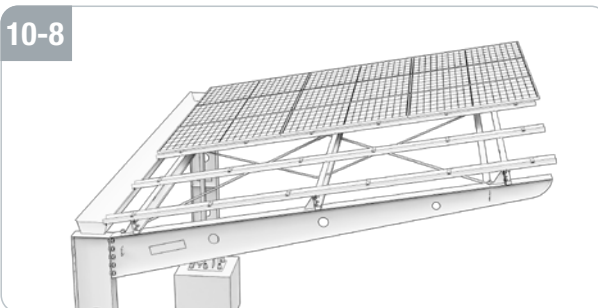
10-6



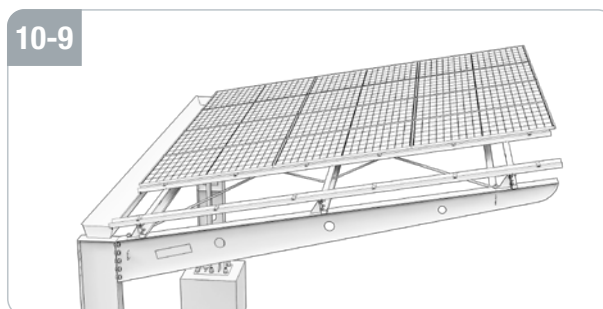
10-7



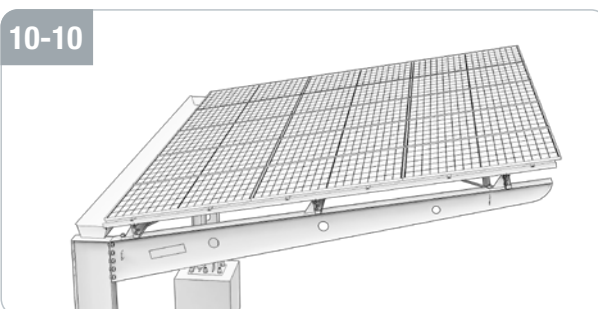
10-8



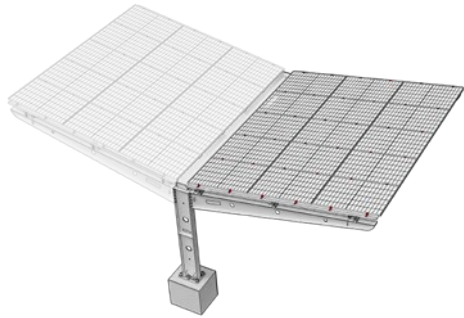
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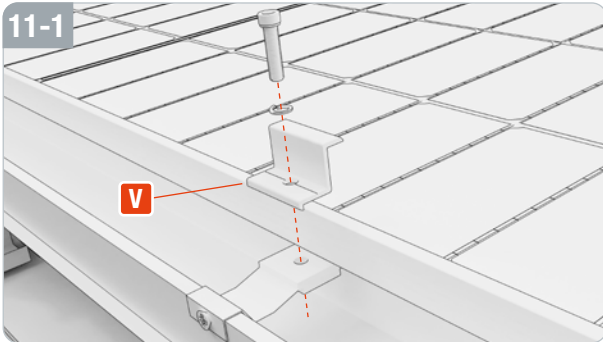
10-10



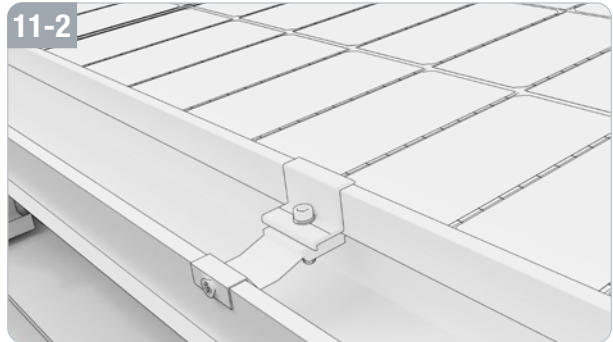
11



11-1

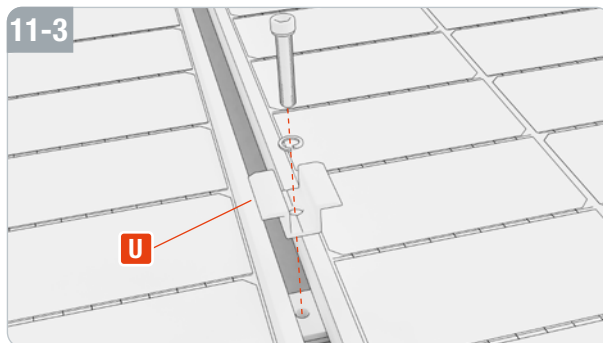


11-2

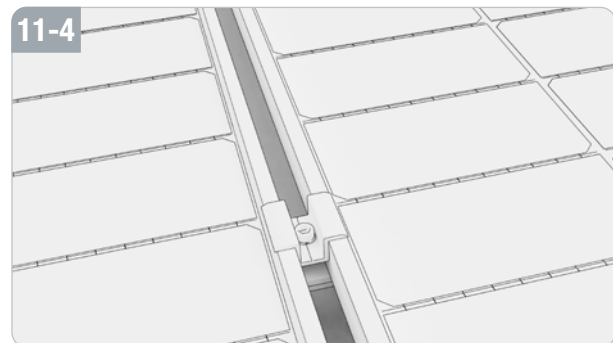


Befestigen Sie die Solarmodule mit Hilfe der äußeren Klemmen (V) an den beiden außenliegenden Schienen mit M-Profil (S).

11-3



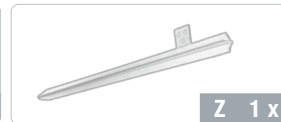
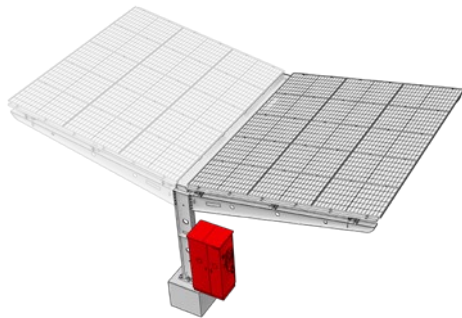
11-4



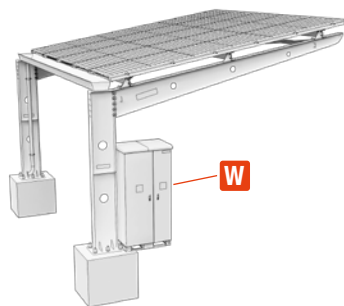
Mit den mittleren Klemmen (U) werden die Solarmodule innerhalb der Überdachung auf die Schienen mit M-Profil (S) montiert. Ein Solarmodul wird rechts und links jeweils mit zwei Klemmen fixiert. Die Stecker der Solarmodule sind MC4 kompatibel.

## MONTAGE SCHALTSCHRANK UND LED-LEUCHE

12

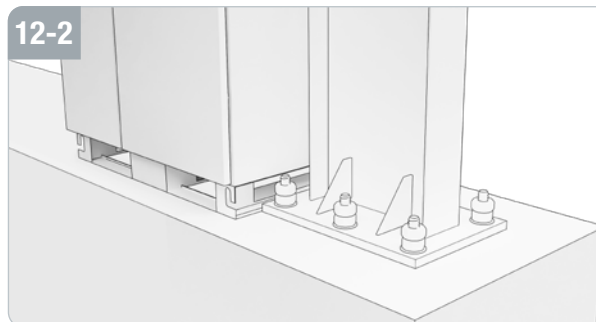


12-1



Positionieren Sie den Schaltschrank (W) an einen der äußeren Stützen (A).

12-2

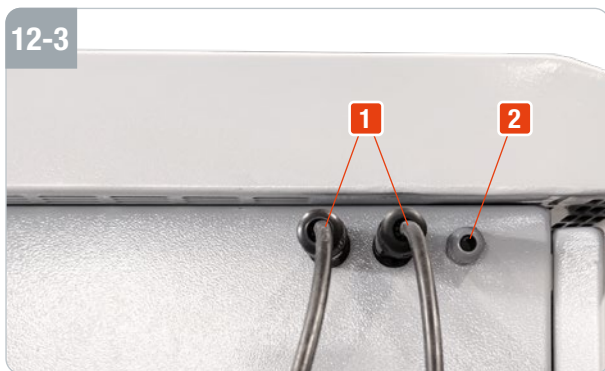


Der Schaltschrank sollte so nah wie möglich an dem Standfuß positioniert werden.



Die Solarmodule werden an den Schaltschrank angeschlossen. Schließen Sie diese nicht direkt an die Wallbox an.

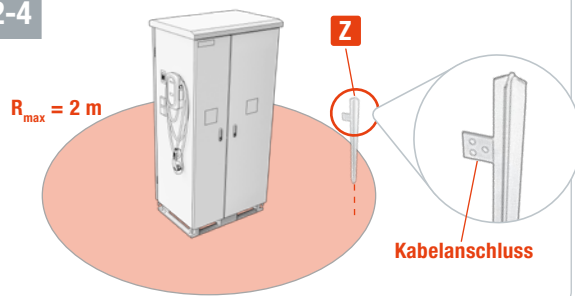
12-3



Stecken Sie die Kabel der Solarmodule und das Stromkabel der Leuchte nach komplett abgeschlossener Montage ein. Die Kabel der Solarmodule in 1 und das Kabel der Leuchte in die Öffnung 2.

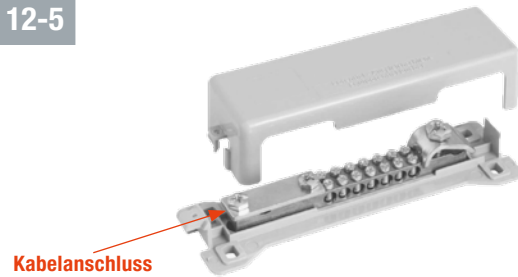


12-4



Schlagen Sie den Erdspieß (Z) in einem maximalen Abstand von 2 m von dem Schaltkasten entfernt in die Erde. Befestigen Sie das Kabel an dem oberen Ende.

12-5



Verbinden Sie das andere Ende des Kabels mit der Potenzialausgleichsschiene. Diese finden Sie im Inneren des Schaltschranks.

12-6



Stellen Sie den Hauptschalter im Sicherungskasten auf die Position „ON“.

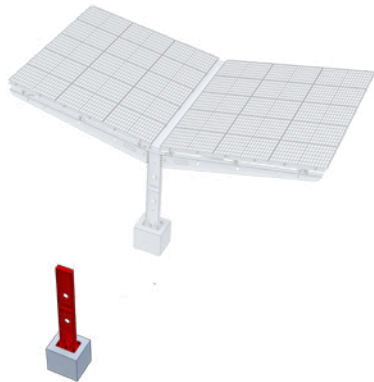
12-7



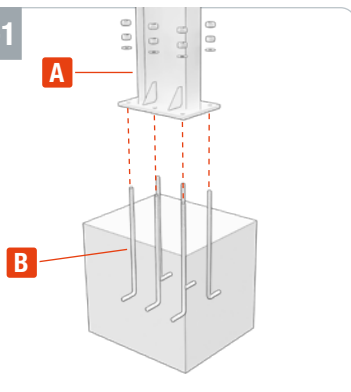
Drehen Sie den roten Trennschalter auf „ON“.

## MONTAGE ANBAUFELD

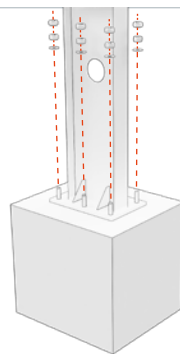
13



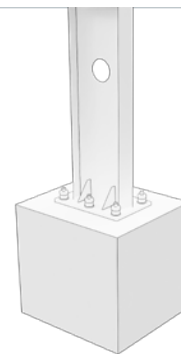
13-1



13-2

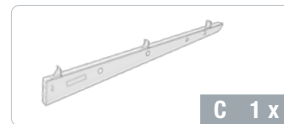
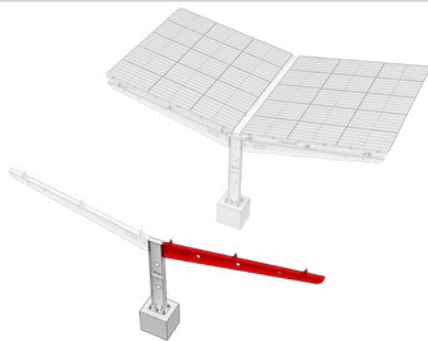


13-3

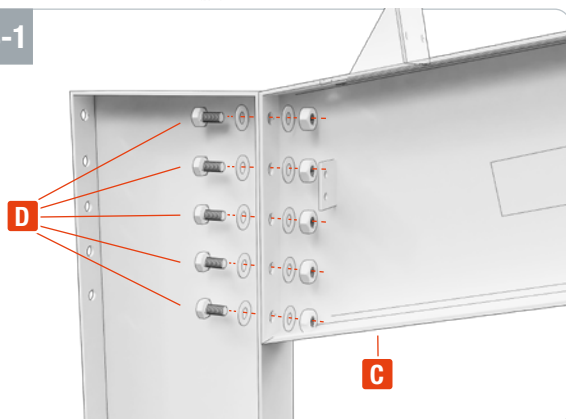


Gießen Sie ein weiteres Zementfundament, welches für die Parkplatzüberdachung ausreichend dimensioniert ist. Achten Sie hier auf die ideale Betonmischung und Fundamenttiefe. Befestigen Sie den Stützpfosten (A) in dem Fundament. Nutzen Sie hierfür die beigelegten M28 x 900 Betonbolzenanker (B) und ziehen Sie diese mit den beiliegenden Muttern und Schrauben fest an.

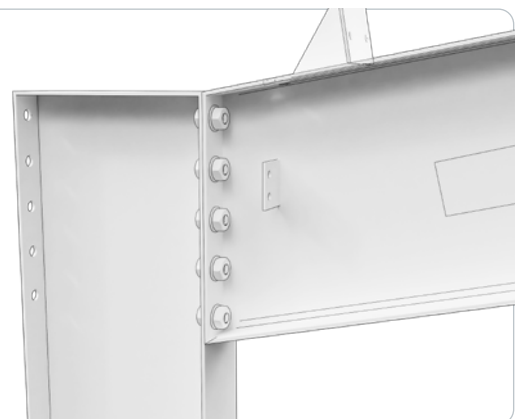
14



14-1



14-2

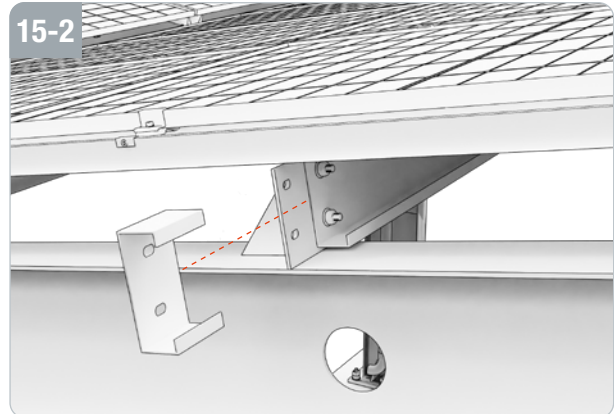
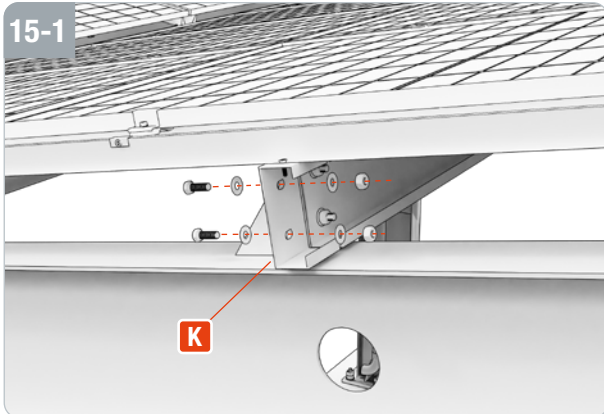
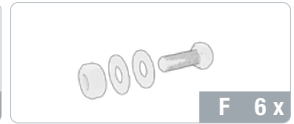
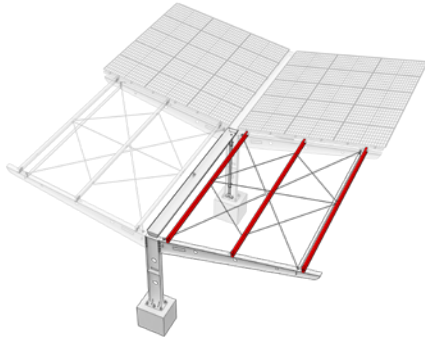


Montieren Sie den Dachträger (C) mit den M20 x 40 Sechskantschrauben (D) inkl. Muttern und Unterlegscheiben auf dem Stützpfosten (A).

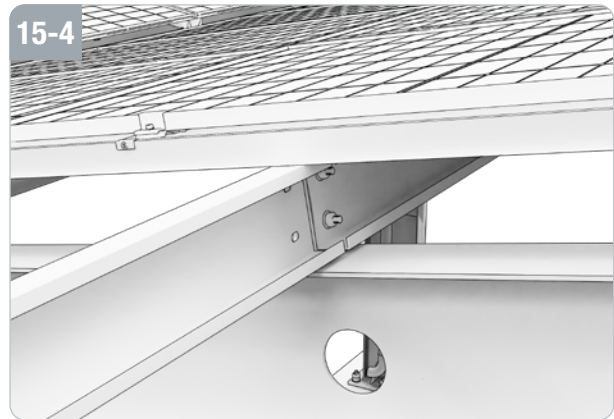
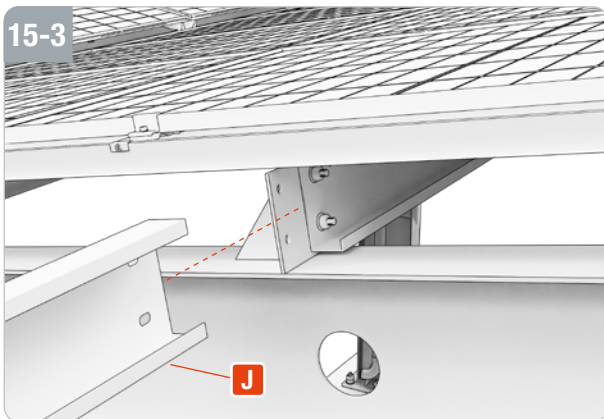


Die Schritte 3 und 4 können aus dem Grundfeld übernommen werden. Siehe Seite 8.

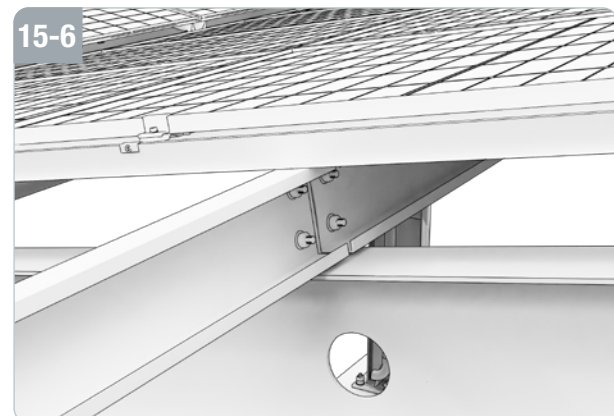
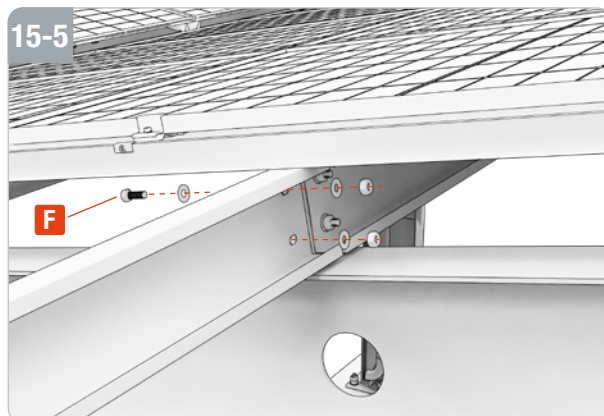
15



Entfernen Sie die Verbindungsstücke mit C-Profil (K) am Grundfeld.



Befestigen Sie die Schienen mit C-Profil (J) des Anbaufeldes an den Winkeln der Dachträger (C) der aufgebauten Parkplatzüberdachung.

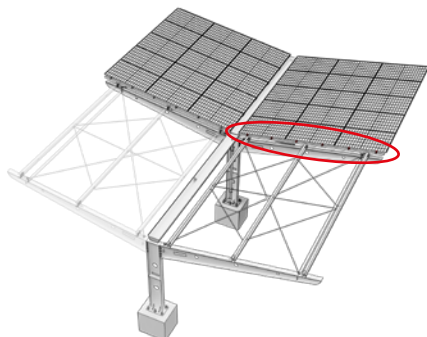


Nutzen Sie hierfür die mitgelieferten M12 x 35 Sechskantschrauben (F) inkl. Muttern und Unterlegscheiben.

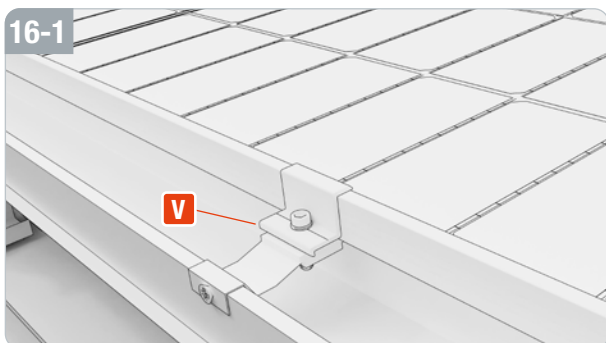


Die Schritte 6 bis 8 können aus dem Grundfeld übernommen werden. Siehe ab Seite 9.

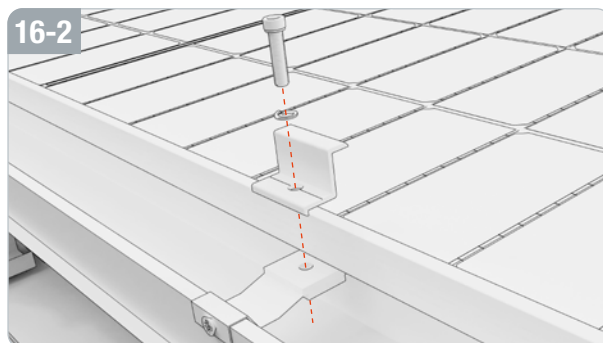
16



16-1

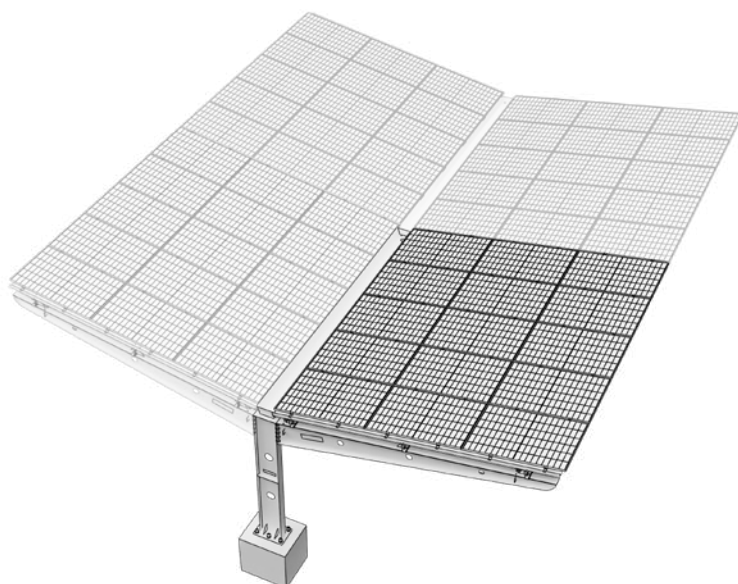


16-2



Entfernen Sie an der Anbauseite des Grundfelds die äußeren Klemmen (V).

17



Befestigen Sie die Solarmodule wie in den Schritten 10 und 11 erklärt. Siehe ab Seite 13.

## SERVICE & KONTAKT

Kontaktieren Sie unsere Produktexperten und finden Sie Hilfe und Lösungen für Ihr Produkt. Hier finden Sie alle Kontaktinformationen nach Land und Sprache gelistet: [www.topregal.com/de/service](http://www.topregal.com/de/service)

Verantwortlich für den Inhalt:

TOPREGAL GmbH  
Industriestraße 3  
70794 Filderstadt  
GERMANY  
[www.topregal.com](http://www.topregal.com)

**GENERAL**

Foreword	23
Safety instructions	23
Parts list	24
Mounting base field	27
Installation of switch cabinet and LED light	36
Mounting add-on panel	38

**DE****EN****FR****MAINTENANCE**

Service & Contact	41
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## FOREWORD

Congratulations on the purchase of your new parking lot canopy. The parking lot canopy has been manufactured from high-quality materials, especially for long-lasting and reliable use. For your own safety and to ensure correct operation of the electrical components, please read and observe these operating instructions before commissioning. Keep these operating instructions in a safe place. Check the solar modules and the steel frame for transport damage. Damaged components must not be used. The parking lot canopy is primarily used to park vehicles and generate green electricity. Improper handling may result in injury or damage to the equipment. Any liability for damage resulting from improper use of the individual components or disregard of the specifications and rules of conduct in these operating instructions is excluded. The operator is responsible for ensuring correct use by authorized persons.

## SAFETY INSTRUCTIONS

- When transporting the entire parking canopy, pay attention to the center of gravity. Falling components can be damaged or cause injury.
- Use suitable lifting gear to transport the product. Avoid jerky movements during transportation to prevent tipping.
- Only set up the parking lot canopy in locations for which you have a building permit and secure it safely. If necessary, contact the local office or authority responsible to clarify your obligations under building law.
- It is the owner's responsibility to obtain building permits. These vary depending on the installation location (e.g. country / federal state / city).
- Ensure that operators and fitters have read these instructions and follow the regulations for safe working.
- Keep unauthorized persons, especially children, away from the electrical equipment.
- Never carry out modifications to the parking lot canopy yourself.
- Only use the components when they are fully assembled.
- Do not use the electrical components in a potentially explosive environment.
- Servicing and maintenance work must be carried out regularly by qualified personnel in accordance with applicable regional standards and regulations. Electrical work may only be carried out by qualified electricians or under their direction and supervision.
- Do not make any modifications or changes to the devices without the manufacturer's consent and only use SoloPort brand components with this system. Failure to do so will invalidate the warranty.
- Wear suitable personal protective equipment (PPE) such as safety shoes, gloves, helmet and safety goggles during installation.

## EQUIPMENT

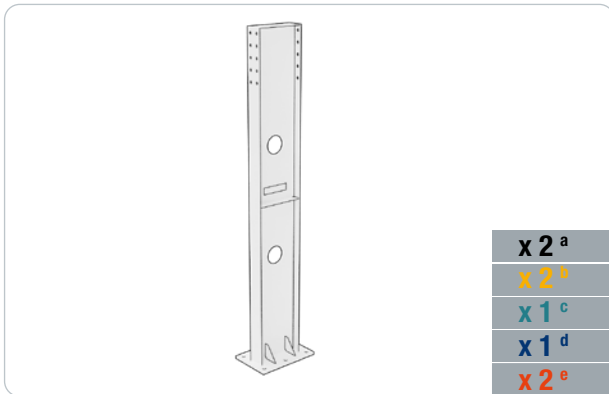
Equipment / Accessories	PP2-G6300 PP2-A6300	PP4-G12600 PP4-A12600	PP2-G PP4-G PP2-A PP4-A	PP2/40-G6300
15 solar modules	x			x
30 solar modules		x		
Steel frame	x	x	x	x
Switch cabinet				x
Wallbox				x
Inverter				x
Keypad				x
Light with motion detector				x
Earthing spike				x



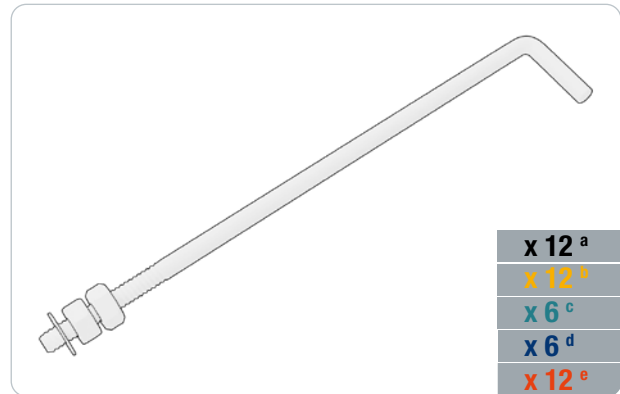
When fitting, please note your model with the corresponding equipment.

## PARTS LIST

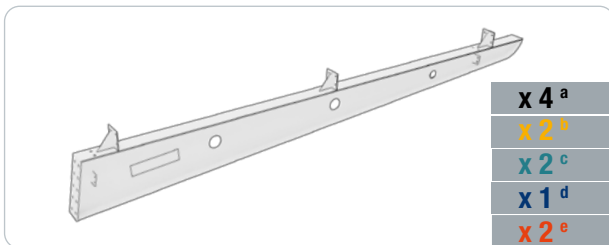
### A Support post



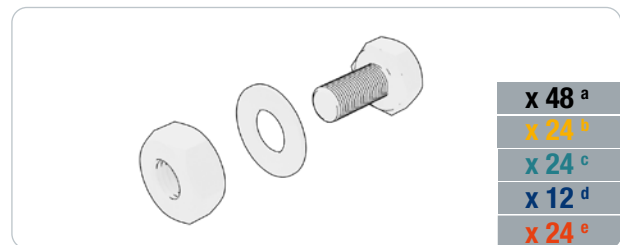
### B M28 x 900 concrete bolt anchor



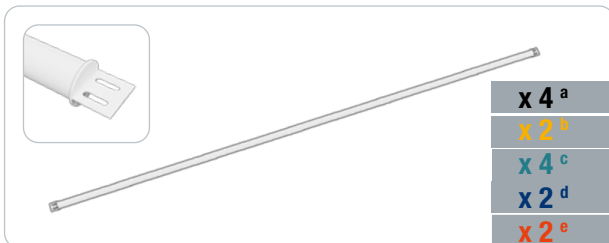
### C Roof rack



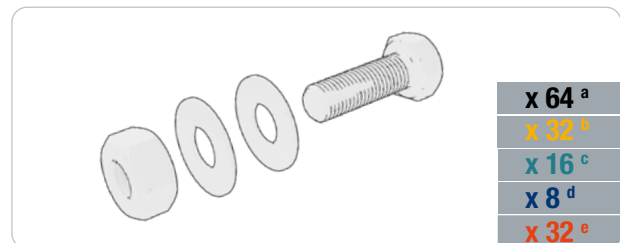
### D M20 x 40 hexagon head screws



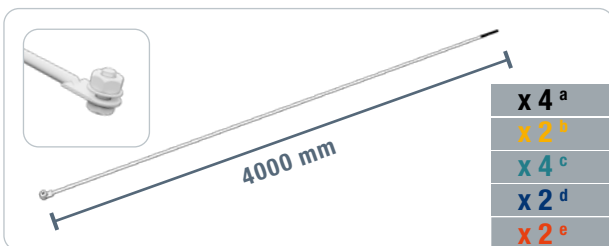
### E Distance struts



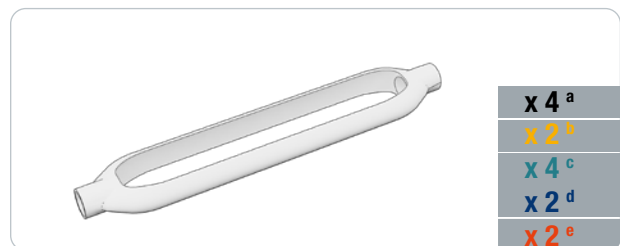
### F M12 x 35 hexagon head screws



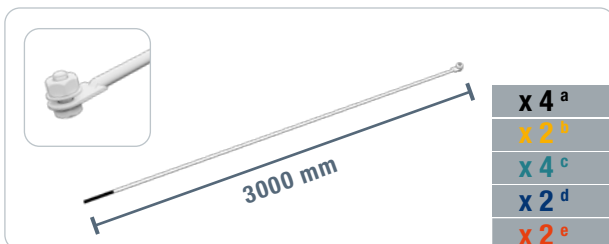
### G Diagonal brace 4000 mm



### H Diagonal tensioner



### I Diagonal brace 3000 mm



### J Rail with C-profile



<sup>a</sup> Quantity for PP4-G12600 / PP4-G

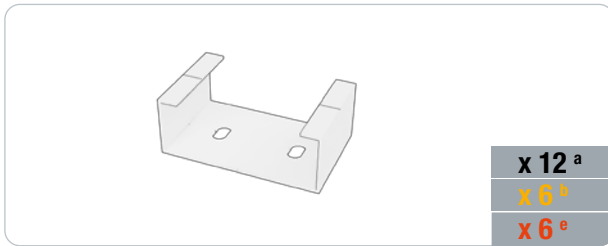
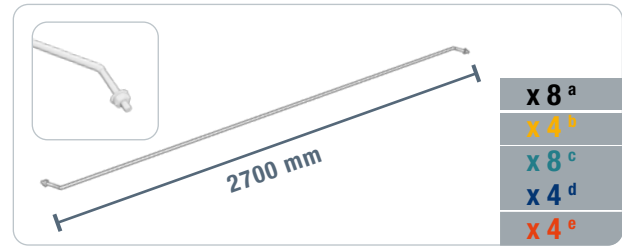
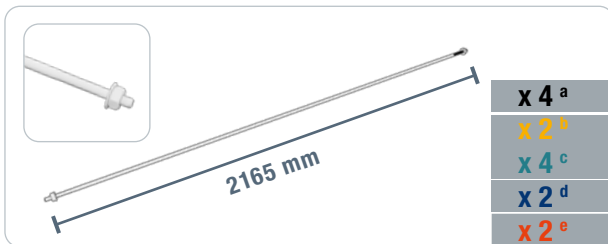
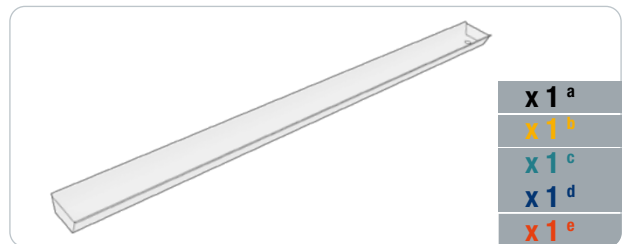
<sup>b</sup> Quantity for PP2-G6300 / PP2-G

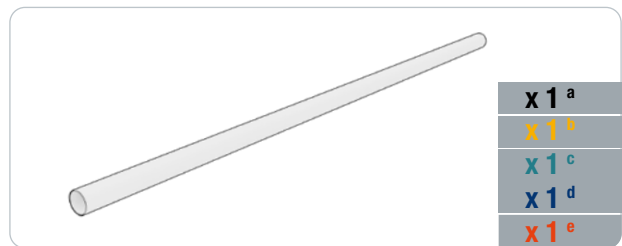
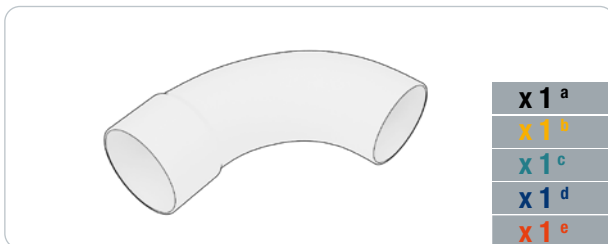
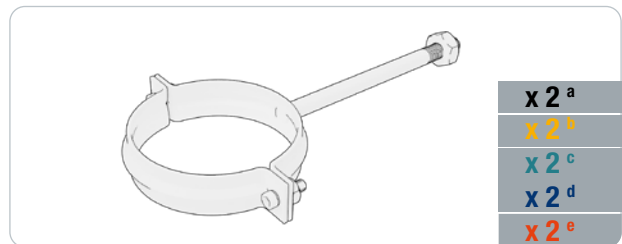
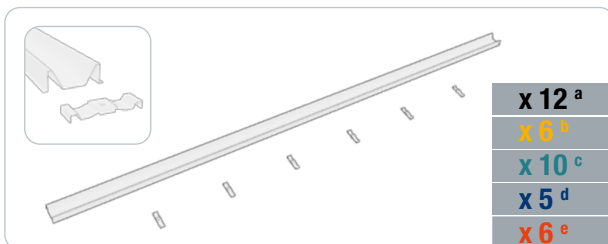
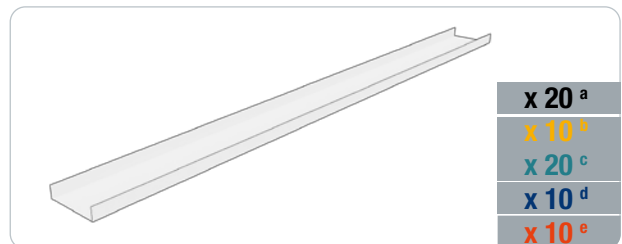
<sup>c</sup> Quantity for PP4-A12600 / PP4-A

<sup>d</sup> Quantity for PP2-A6300 / PP2-A

<sup>e</sup> Quantity for PP2/40-G6300



**K** Connecting piece with C-profile

**L** Diagonal brace

**M** Longitudinal strut

**N** Rain gutter

**O** M6.3 x 25 self-tapping screws

**P** Downpipe

**Q** Elbow downpipe

**R** Clamp for downpipe

**S** Rail with M-profile

**T** Rail with U-profile

<sup>a</sup> Quantity for PP4-G12600 / PP4-G

<sup>b</sup> Quantity for PP2-G6300 / PP2-G

<sup>c</sup> Quantity for PP4-A12600 / PP4-A

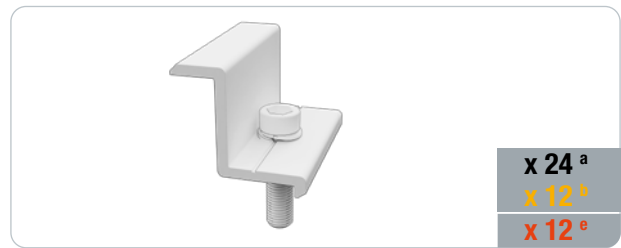
<sup>d</sup> Quantity for PP2-A6300 / PP2-A

<sup>e</sup> Quantity for PP2/40-G6300

### U Middle clamp



### V Outer clamp



### W Switch cabinet



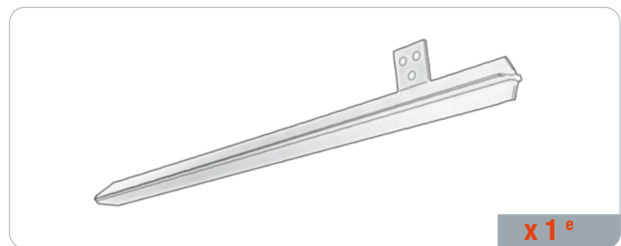
### X LED light



### Y Motion detector



### Z Ground spike



Solar modules are not included in the parts list. These can be found on the delivery bill.



For installation instructions for the add-on panels, see page 38.



Please note your model with the corresponding equipment during installation and the further instructions in the manual.

<sup>a</sup> Quantity for PP4-G12600 / PP4-G  
<sup>b</sup> Quantity for PP2-G6300 / PP2-G

<sup>c</sup> Quantity for PP4-A12600 / PP4-A  
<sup>d</sup> Quantity for PP2-A6300 / PP2-A

<sup>e</sup> Quantity for PP2/40-G6300

# MOUNTING BASE FIELD

DE  
EN  
FR

**1**

**2 x**

**A 2 x** **B 12 x**

**1-1** **1-2** **1-3**

Pour two cement foundations that are sufficiently dimensioned for the parking lot canopy. Ensure the ideal concrete mix and foundation depth. Fasten one support post (A) in each foundation. To do this, use the enclosed M28 x 900 concrete bolt anchors (B) and tighten them firmly with the enclosed nuts and bolts.

**2**

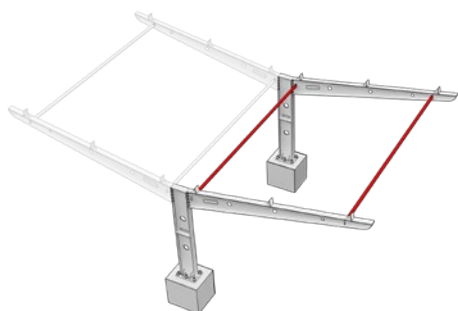
**2 x**

**C 2 x** **D 20 x**

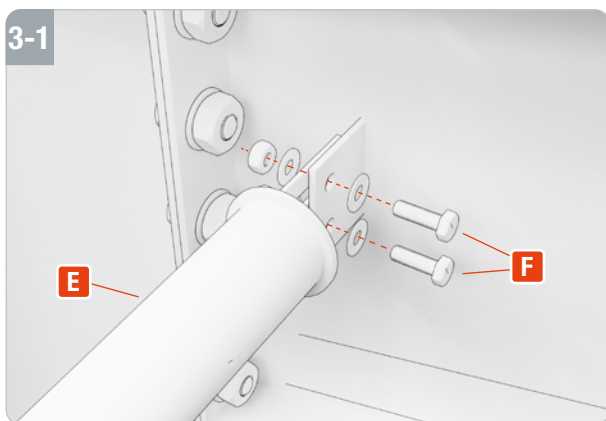
**2-1** **2-2**

Mount the roof bars (C) on the support posts (A) using the M20 x 40 hexagon bolts (D) including nuts and washers.

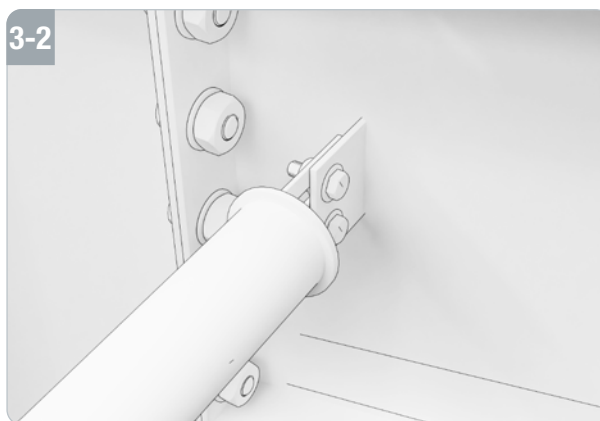
3



3-1

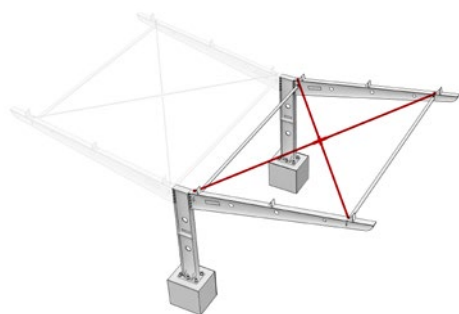


3-2

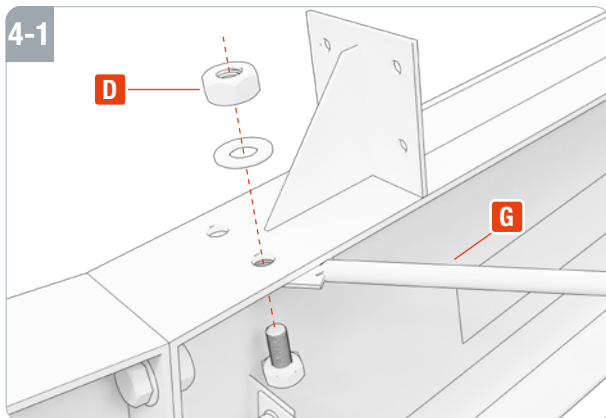


Attach the spacer struts (E) to the roof bars (C) using the supplied M12 x 35 hexagon bolts (F), nuts and washers

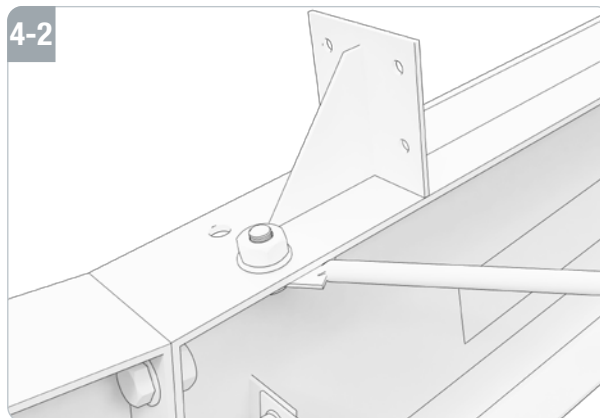
4



4-1

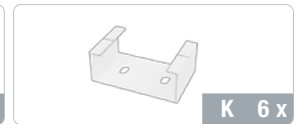
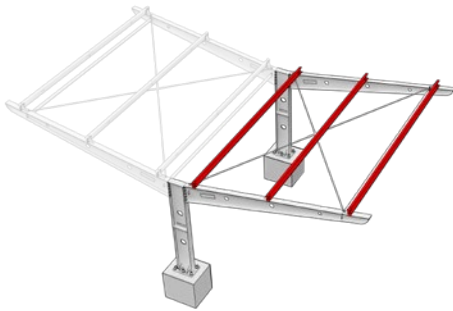


4-2

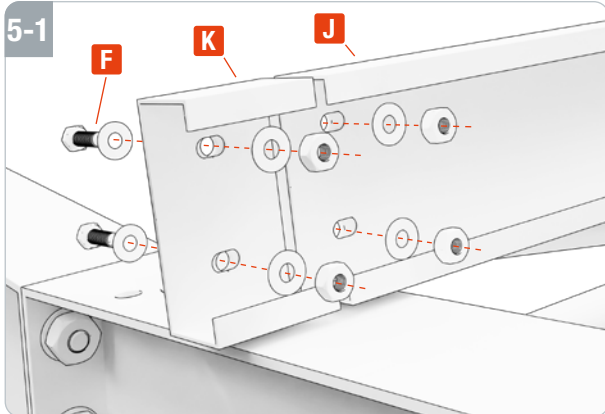


Push the diagonal brace (G) and the diagonal brace (I) together using the diagonal tensioner (H). Mount the connected diagonal braces (G) and (I) with the diagonal tensioner (H) crossed over on the roof bars (C). Use the enclosed M20 x 40 mm hexagon bolts, nuts and washers (D) for this.

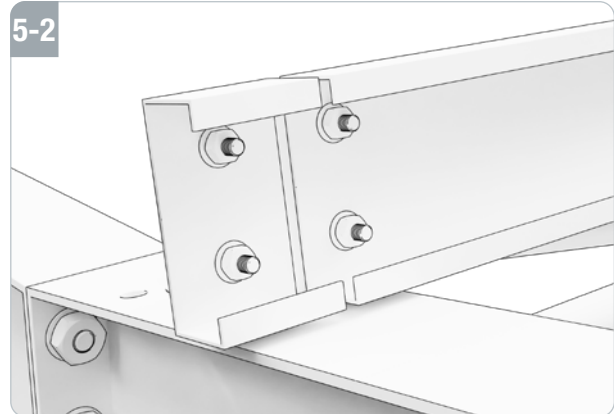
5



5-1

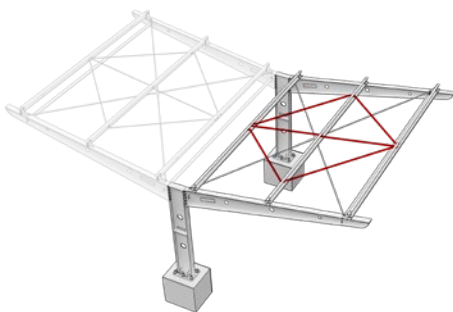


5-2

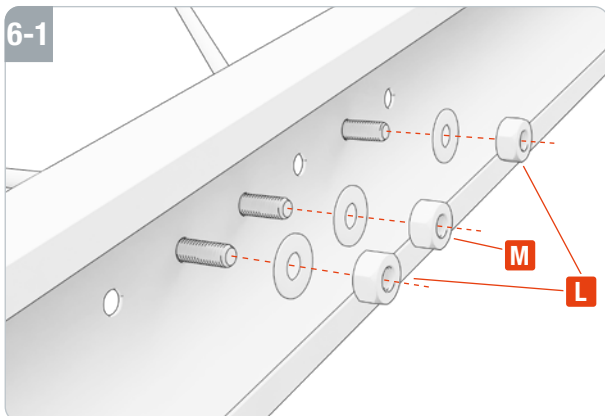


Attach the rail with C-profile (J) to the two inner holes of the already mounted bracket of the roof bars (C). Screw the connecting pieces with C-profile (K) to the two outer holes of the bracket and tighten them firmly. Use the supplied M12 x 35 hexagon bolts (F) including nuts and washers for this.

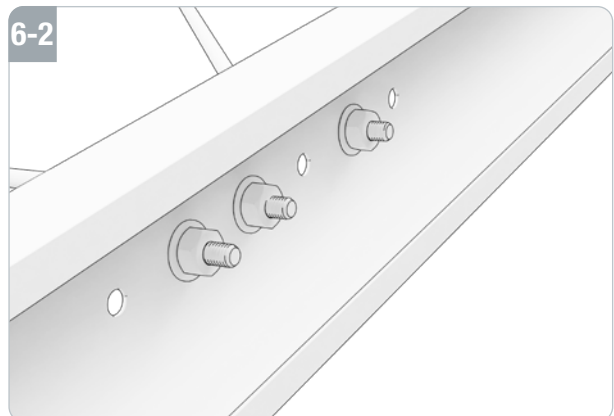
6



6-1

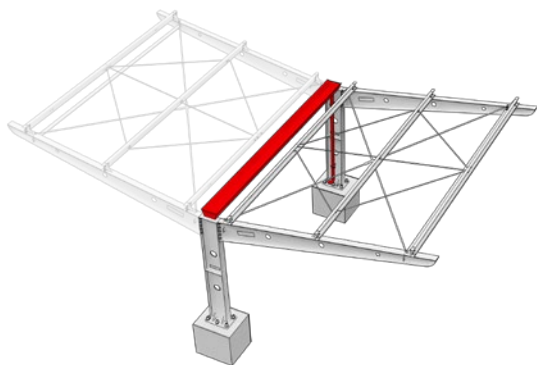


6-2

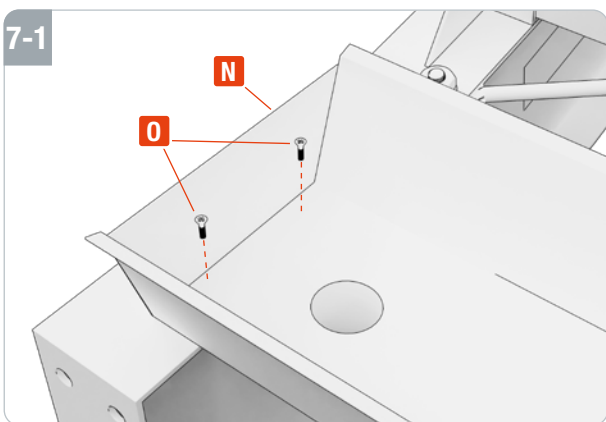


Insert the diagonal brace (L) and longitudinal brace (M) through the holes provided in the rail with C-profile (J). Tighten the diagonal braces (L) and longitudinal braces (M) using the nuts and washers provided.

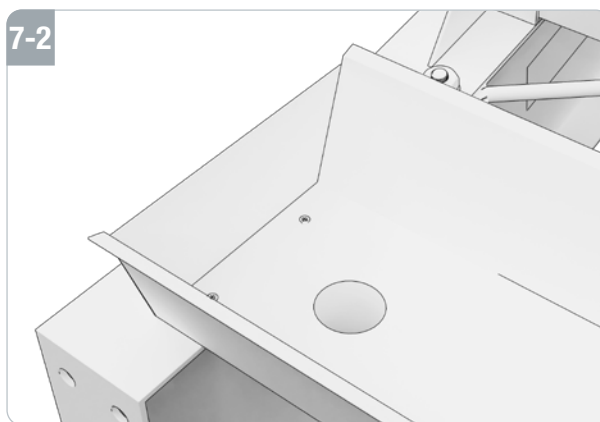
7



7-1

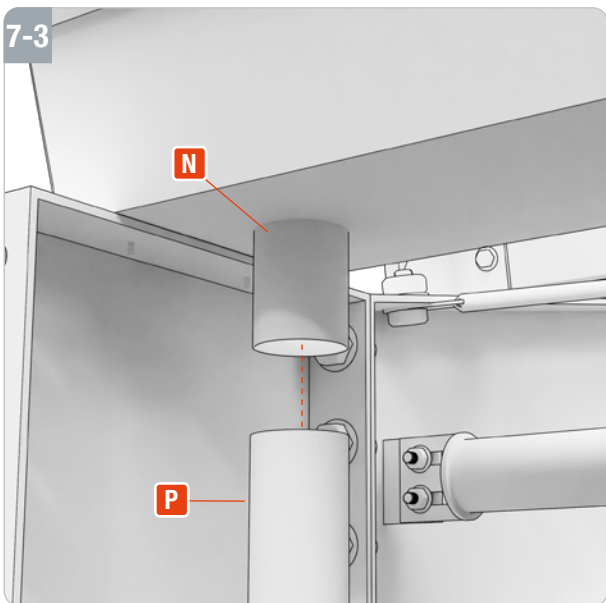


7-2

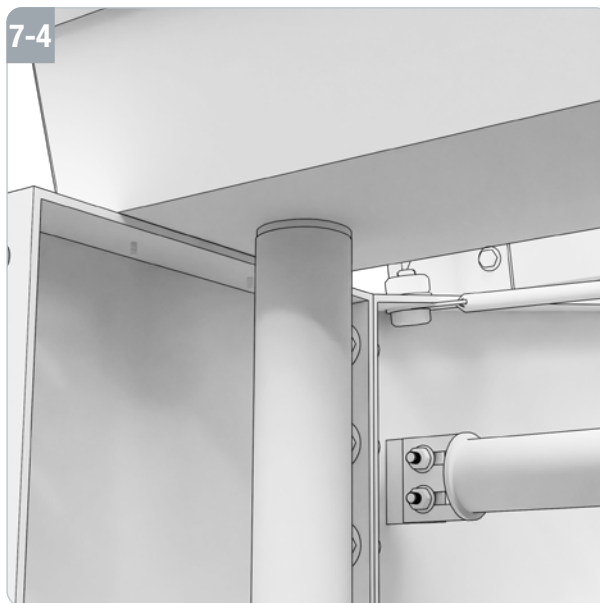


Attach the rain gutter (N) to the two support posts (A) using the four M6.3 x 25 self-tapping screws (O).

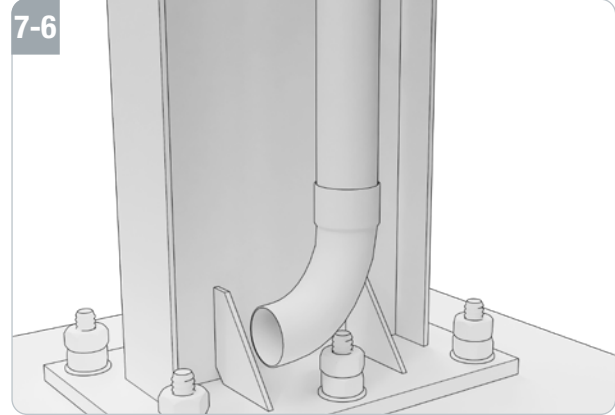
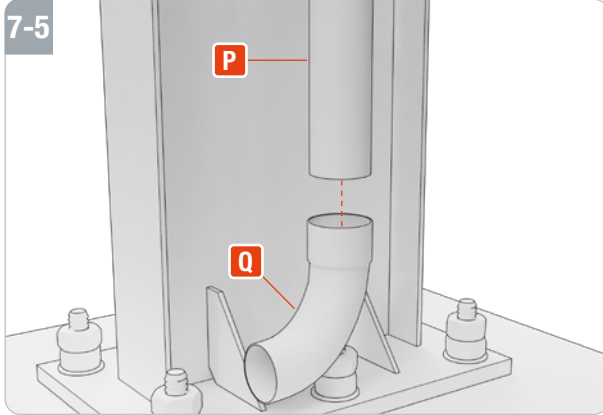
7-3



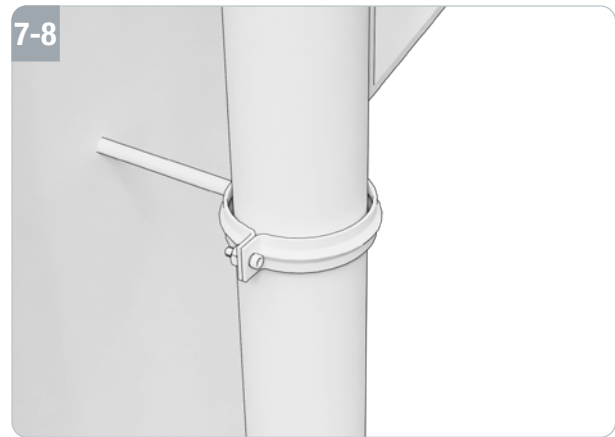
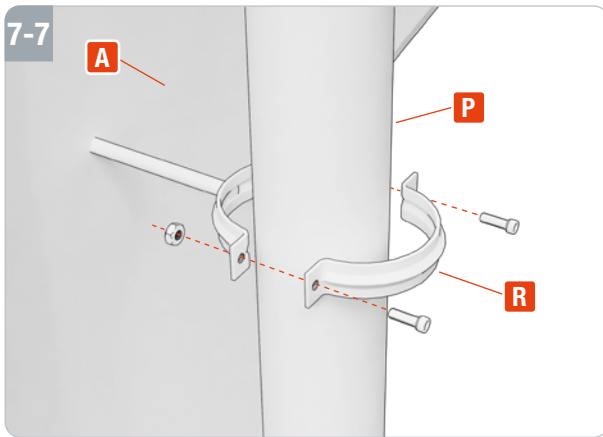
7-4



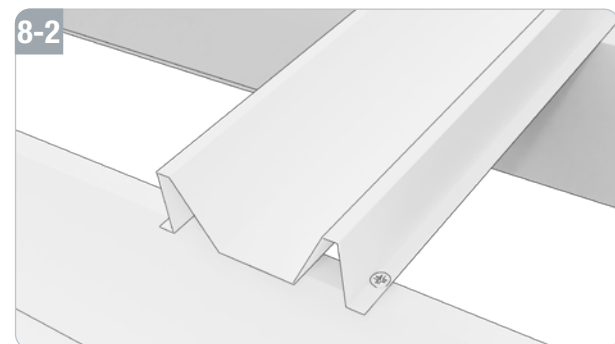
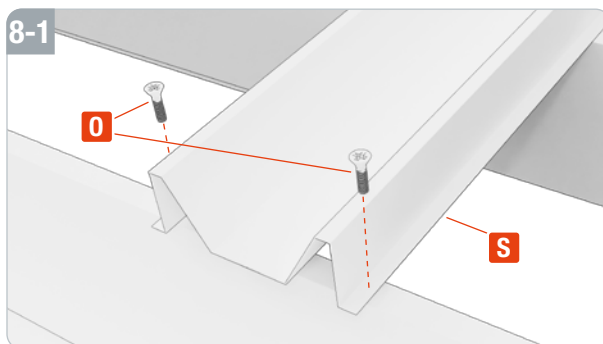
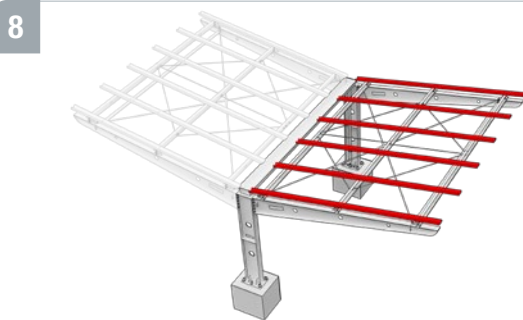
Then insert the downpipe (P) into the hole provided in the rain gutter (N).



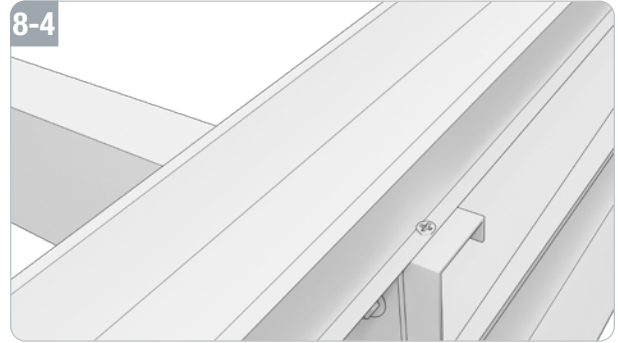
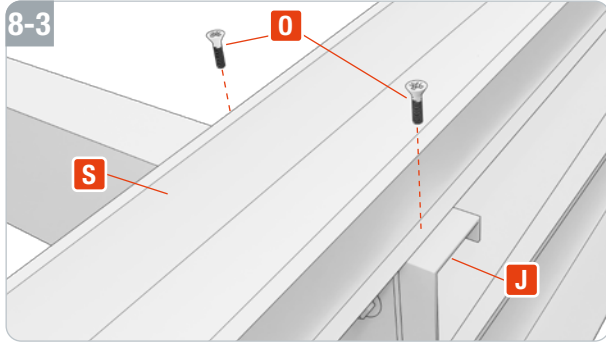
Attach the angle piece (Q) to the lower end of the downpipe (P).



You can screw the downpipe (P) to the support posts (A) using the two clamps (R) and screws supplied.

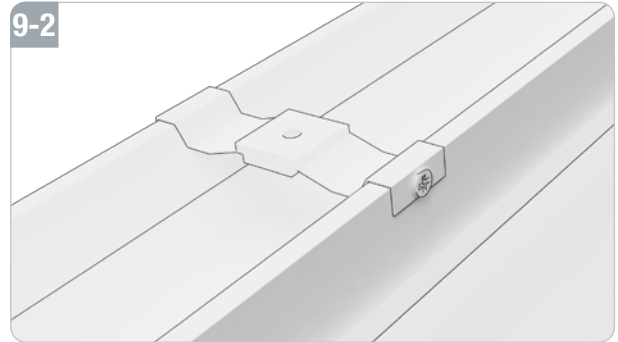
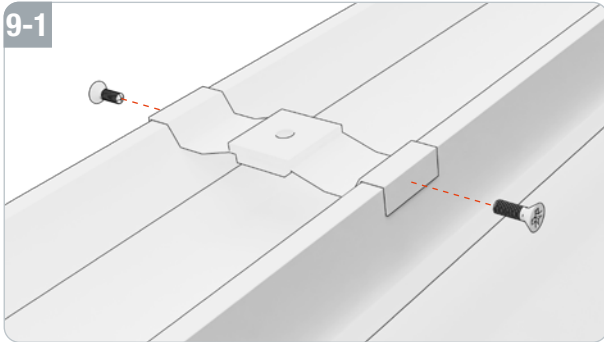
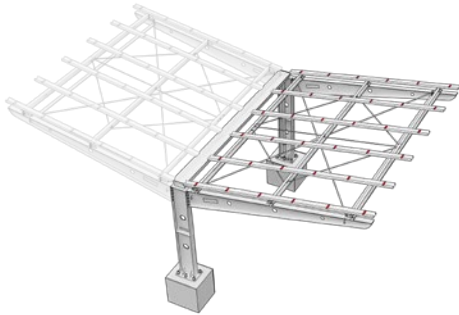


Lay the rails with M profile (S) parallel to the roof girders (C) at an even distance of 1154 mm. First screw the ends of the rails with M profile (S) to the rain gutter (N) using the M6.3 x 25 self-tapping screws (O).



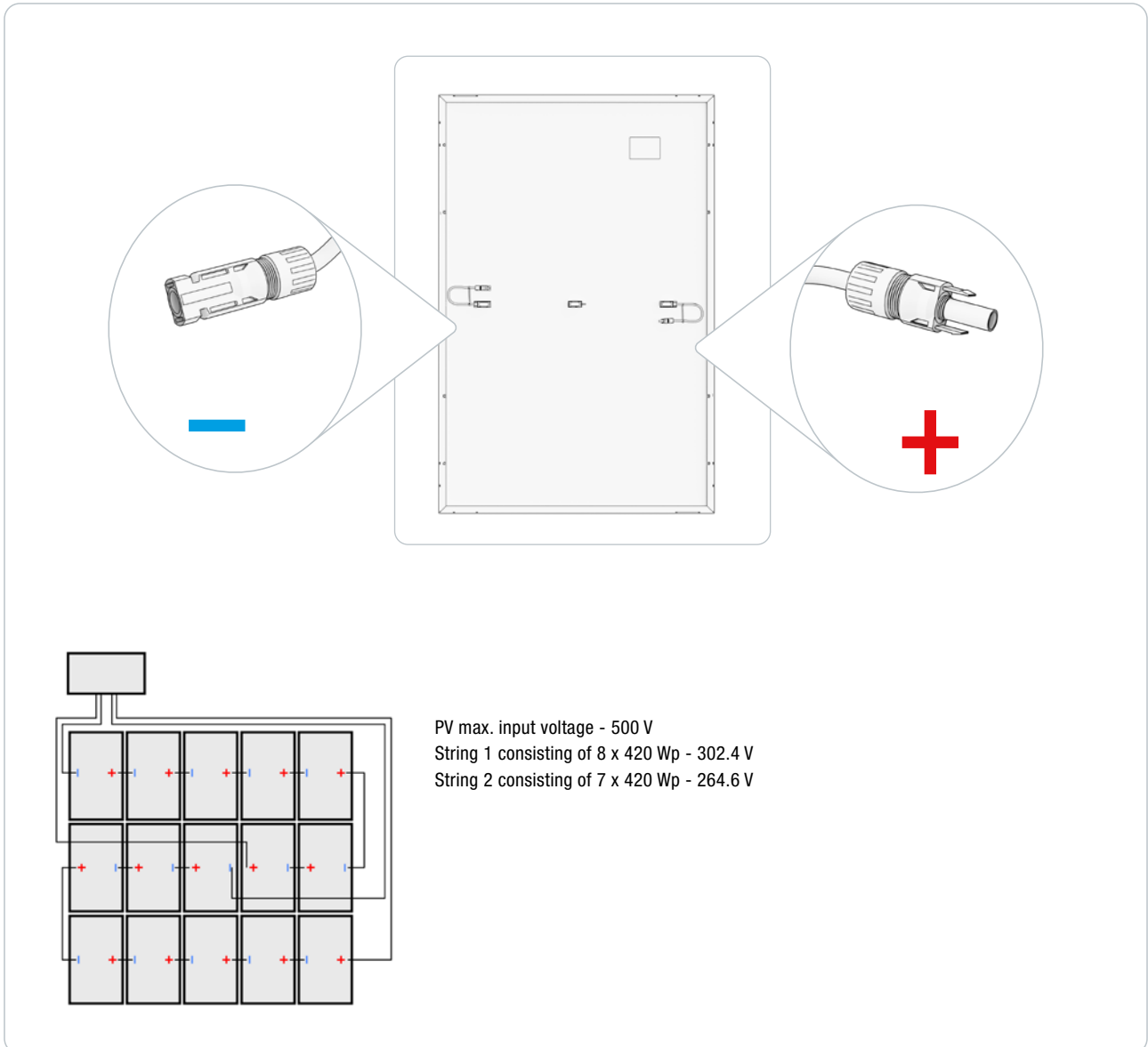
Then continue to use the M6.3 x 25 self-tapping screws (O) to mount the rails with M profile (S) to the rails with C profile (J).

9



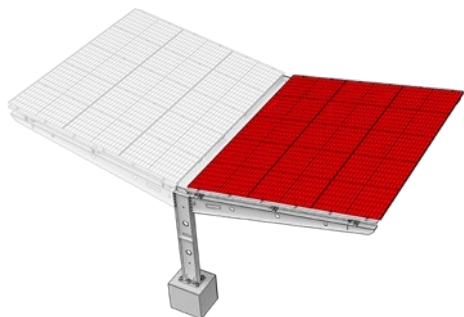
Then screw the supplied brackets onto the rails with M profile (S) using the M6.3 x 25 self-tapping screws (O). Six brackets are attached to one rail with M profile (S).



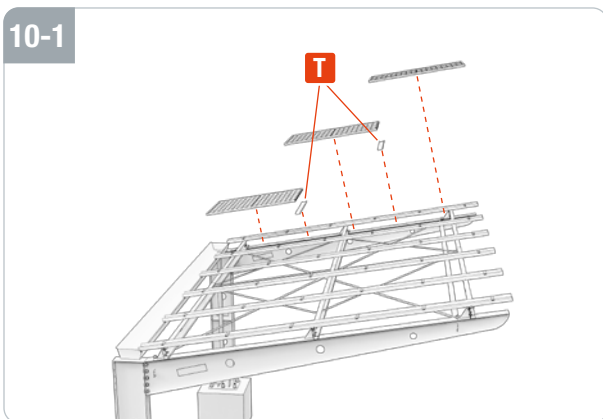


Please note that the solar modules must be connected as 2 series connections.  
 To do this, connect 8 solar modules to string 1 and 7 solar modules to string 2.  
 Do not connect the +/- plugs until the solar modules are firmly mounted.

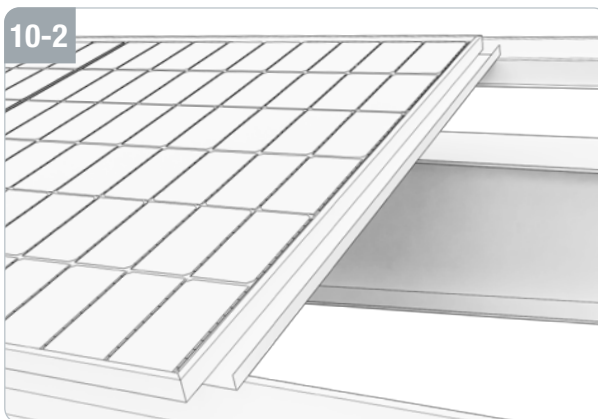
10



10-1

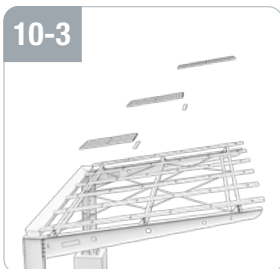


10-2

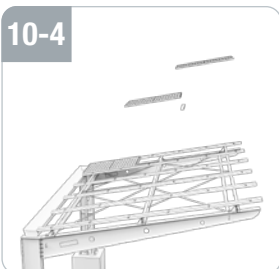


Place the rail with U-profile (T) crosswise between the rail with M-profile (S). Place two rails with U-profile (T) above and below the middle solar module per row of 3.

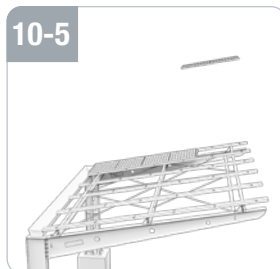
10-3



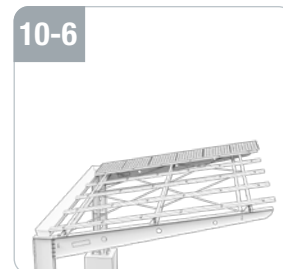
10-4



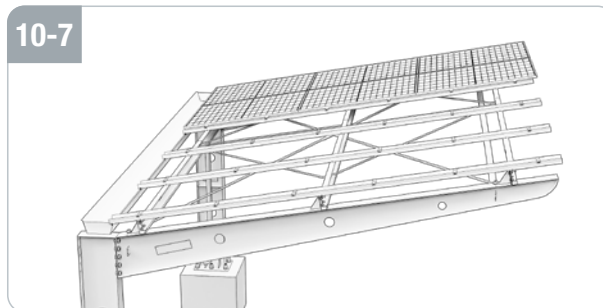
10-5



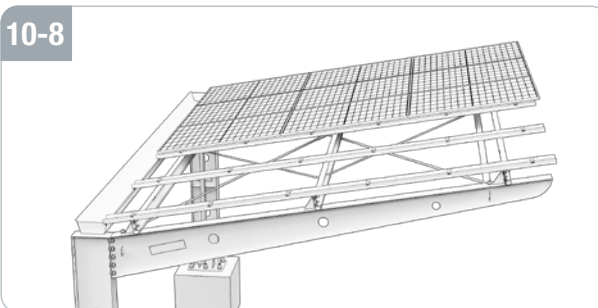
10-6



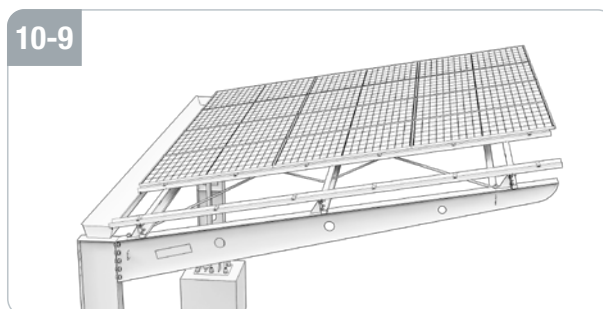
10-7



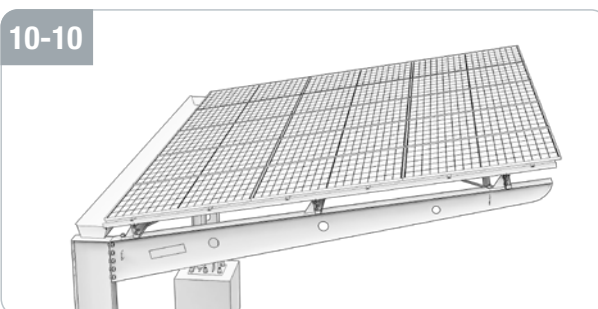
10-8



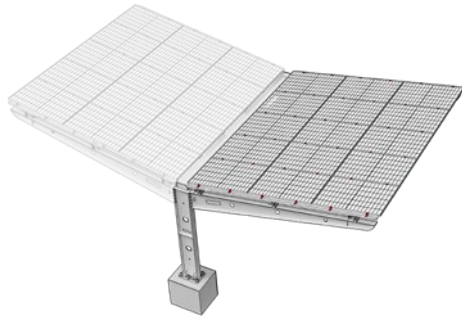
10-9



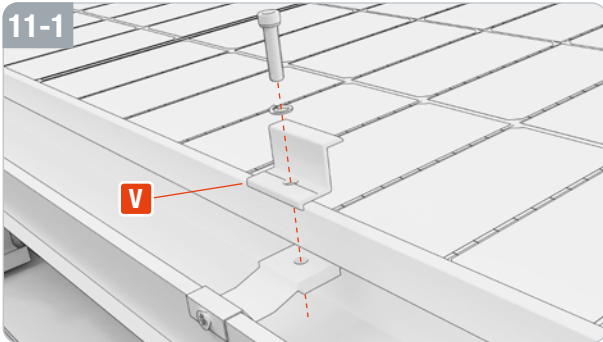
10-10



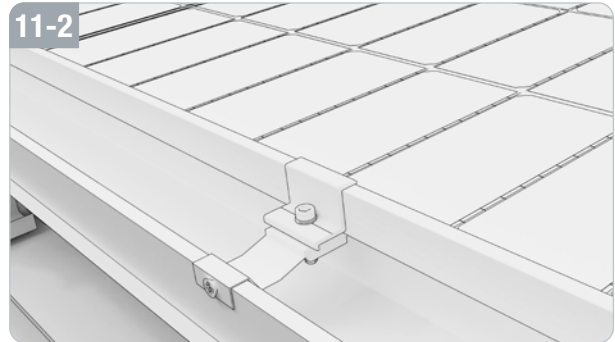
11



11-1

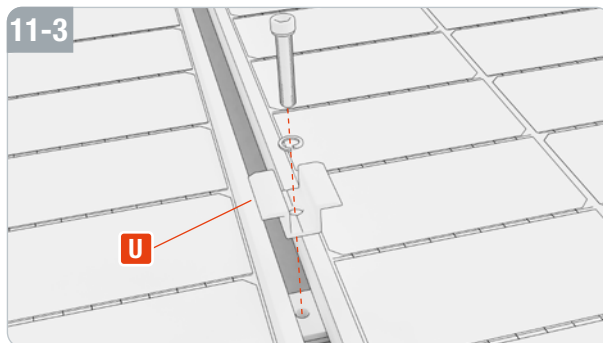


11-2



Attach the solar modules to the two external rails with M profile (S) using the outer clamps (V).

11-3



11-4

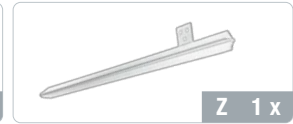
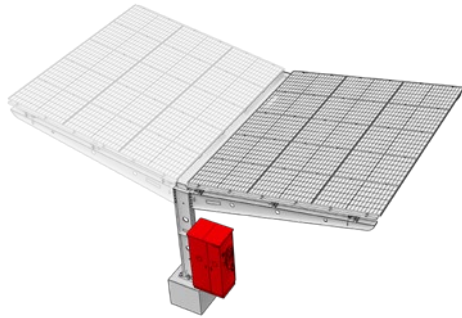


The middle clamps (U) are used to mount the solar modules inside the roofing on the rails with M profile (S). A solar module is fixed on the right and left with two clamps each. The solar module connectors are MC4 compatible.

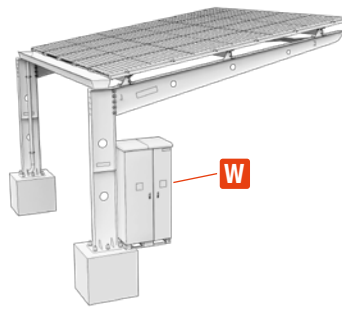
## INSTALLATION OF SWITCH CABINET AND LED LIGHT

DE  
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12

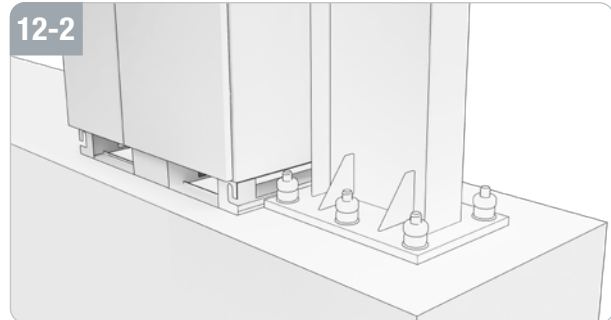


12-1



Position the switch cabinet (W) on one of the outer supports (A).

12-2

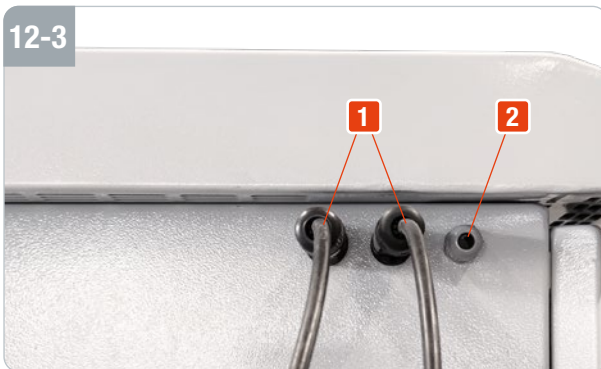


The switch cabinet should be positioned as close as possible to the stand.



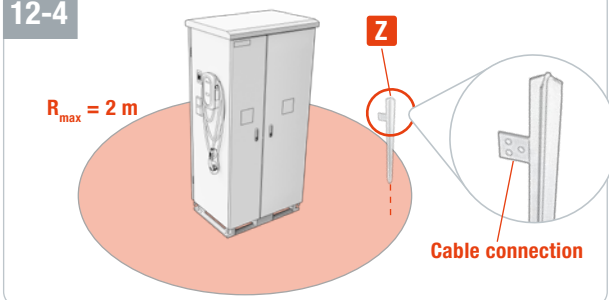
The solar modules are connected to the control cabinet. Do not connect them directly to the wallbox.

12-3



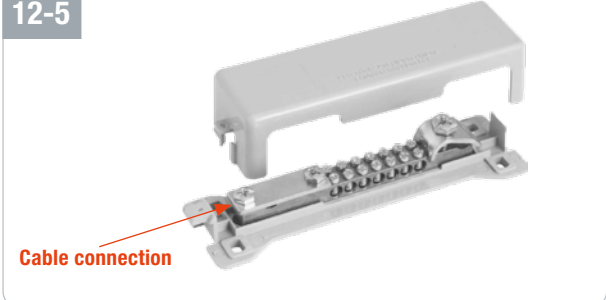
Plug in the cables of the solar modules and the power cable of the light once installation is complete. Insert the solar module cables into opening 1 and the luminaire cable into opening 2.

12-4



Drive the ground spike (Z) into the ground at a maximum distance of 2 m from the switch box. Attach the cable to the upper end.

12-5



Connect the other end of the cable to the equipotential bonding bar. This can be found inside the switch cabinet.

12-6



Set the main switch in the fuse box to the "ON" position.

12-7

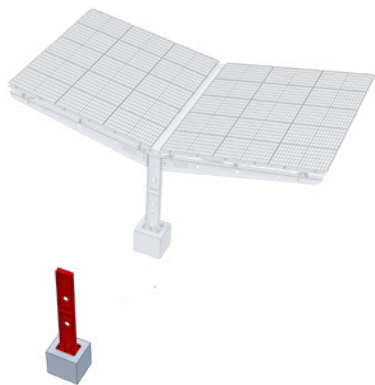


Turn the red isolating switch to "ON".

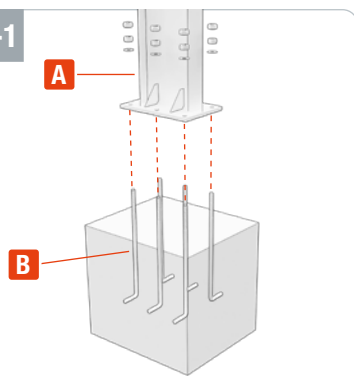
## MOUNTING ADD-ON PANEL

DE  
EN  
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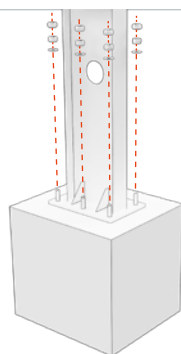
13



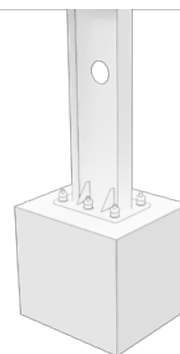
13-1



13-2

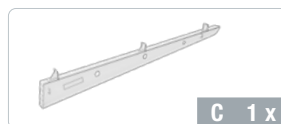
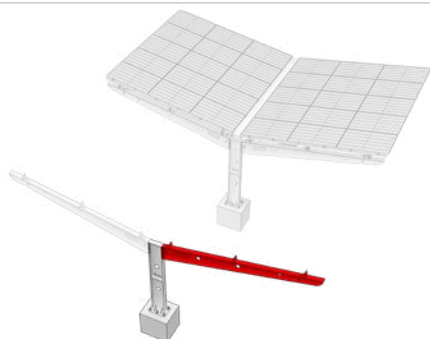


13-3

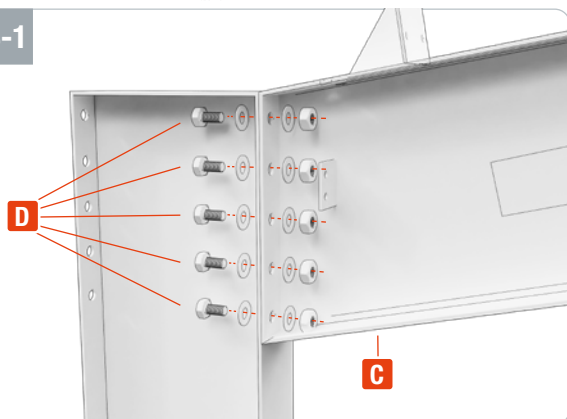


Pour another cement foundation that is sufficiently dimensioned for the parking lot canopy. Ensure the ideal concrete mix and foundation depth here. Fasten the support post (A) in the foundation. To do this, use the enclosed M28 x 900 concrete bolt anchors (B) and tighten them firmly with the enclosed nuts and bolts.

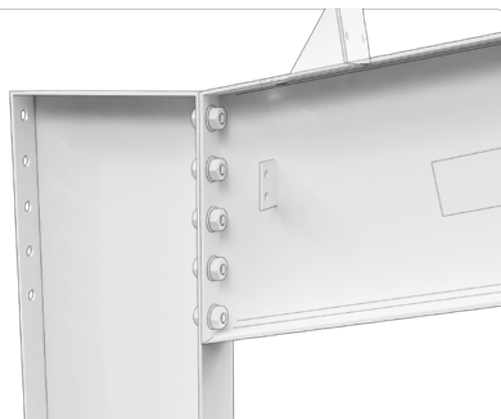
14



14-1



14-2

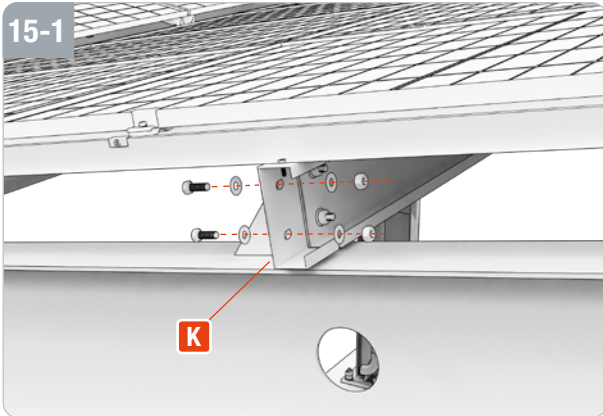
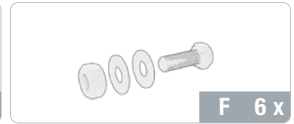
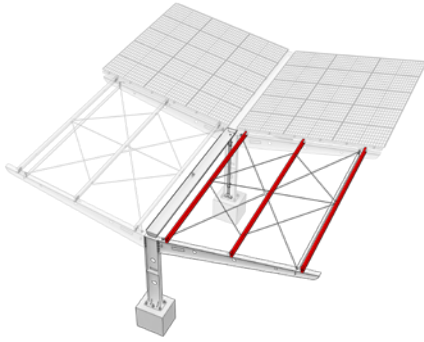


Mount the roof rack (C) on the support post (A) using the M20 x 40 hexagon bolts (D) including nuts and washers.

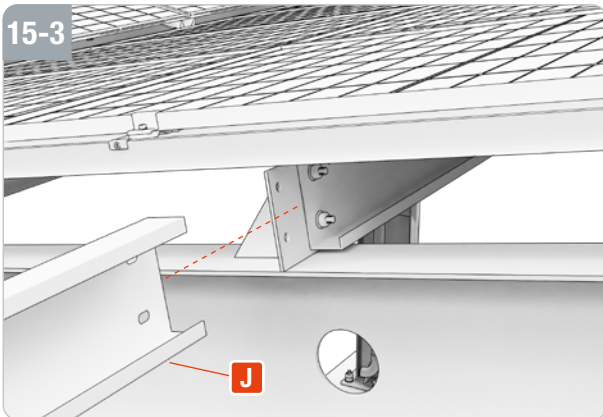
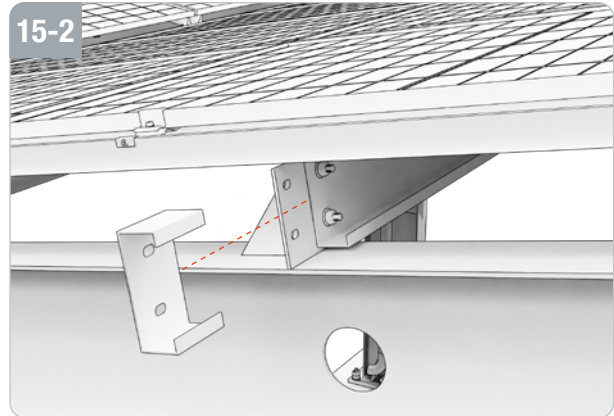


Steps 3 and 4 can be copied from the basic field. See page 28.

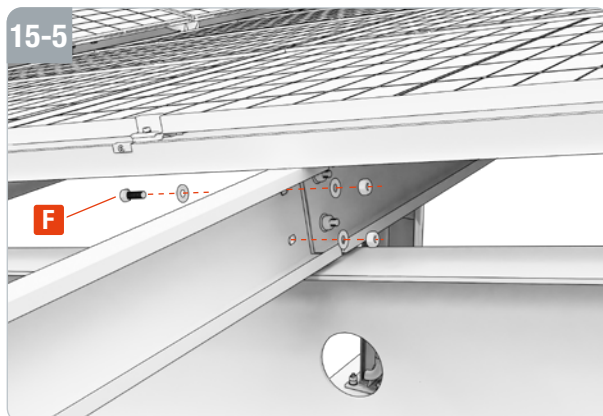
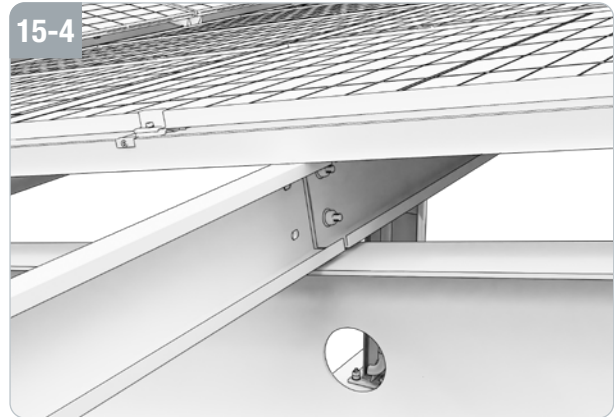
15



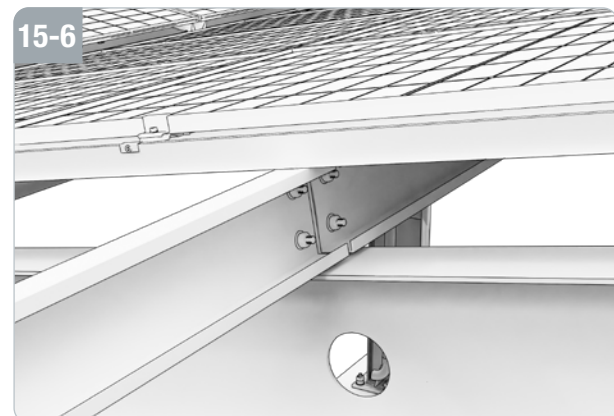
Remove the connecting pieces with C-profile (K) from the base panel.



Attach the rails with C-profile (J) of the add-on bay to the angles of the roof girders (C) of the assembled parking lot canopy.



Use the supplied M12 x 35 hexagon bolts (F) including nuts and washers.





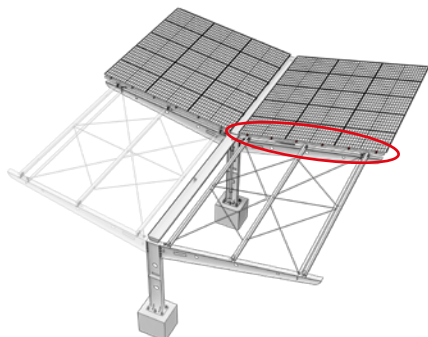
Steps 6 to 8 can be taken from the basic field. See from page 29 onwards.

DE

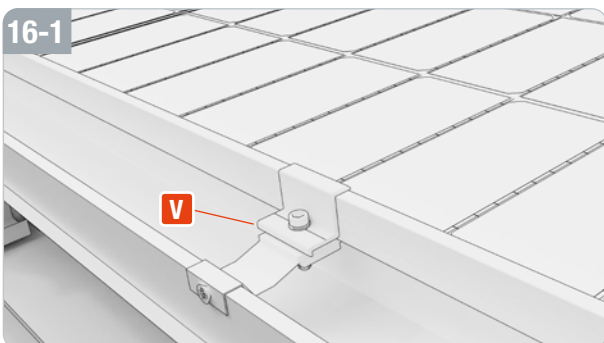
EN

FR

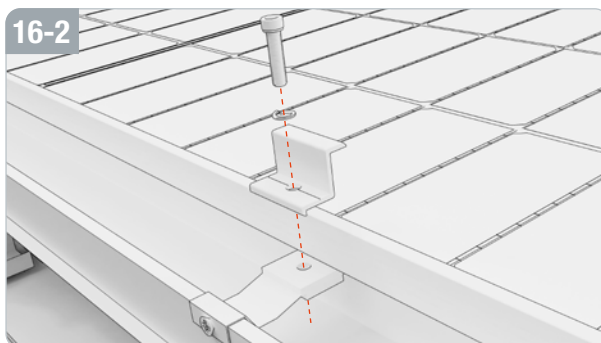
16



16-1

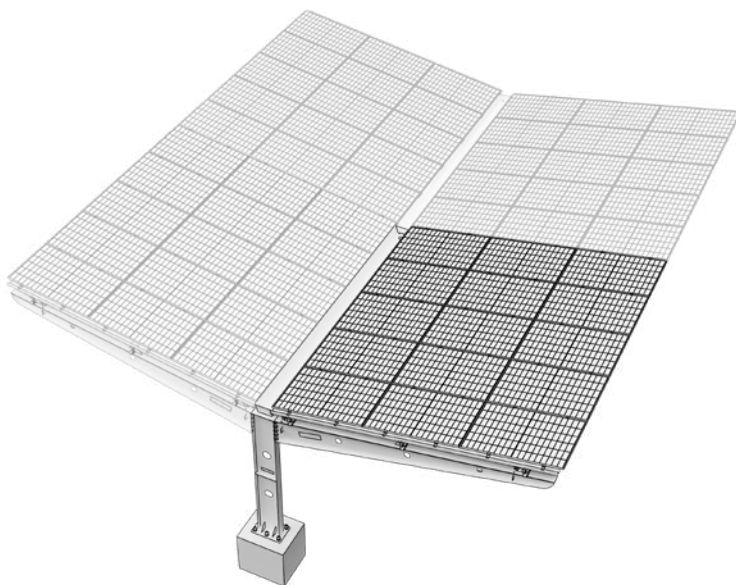


16-2



Remove the outer terminals (V) on the mounting side of the basic panel.

17



Attach the solar modules as explained in steps 10 and 11. See from page 33 onwards.



## SERVICE & CONTACT

Contact our product experts and find help and solutions for your product. Here you will find all contact information listed by country and language: [www.topregal.com/en/service](http://www.topregal.com/en/service)

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Industriestrasse 3  
70794 Filderstadt  
GERMANY  
[www.topregal.com](http://www.topregal.com)

DE

EN

FR

**GÉNÉRALITÉS**

Préface	43
Consignes de sécurité	43
Liste de pièces	44
Montage du panneau de base	47
Montage de l'armoire électrique et du luminaire à LED	56
Montage du panneau de montage	58

**DE****EN****FR****ENTRETIEN**

Service & contact	61
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## PRÉFACE

Nous vous félicitons pour l'achat de votre nouvel abri de parking. L'abri de parking a été fabriqué avec des matériaux de haute qualité, spécialement conçus pour une utilisation durable et fiable. Pour votre propre sécurité et pour un fonctionnement correct des composants électriques, lisez et respectez impérativement ce mode d'emploi avant la mise en service. Conservez ces instructions de service. Vérifiez que les modules solaires et le châssis en acier n'ont pas été endommagés pendant le transport. Les composants endommagés ne doivent pas être mis en service. L'abri de parking sert avant tout à abriter des véhicules et à produire de l'électricité écologique. Une manipulation non conforme peut entraîner des blessures ou des dommages aux équipements. Toute responsabilité pour des dommages résultant d'une utilisation non conforme des différents composants ou du non-respect des consignes et des règles de comportement du présent mode d'emploi est exclue. Il incombe à l'utilisateur de s'assurer que les personnes autorisées utilisent correctement l'appareil.

## CONSIGNES DE SÉCURITÉ

- Lors du transport de l'ensemble de l'abri de parking, il faut faire attention au centre de gravité. Les composants qui tombent peuvent être endommagés ou provoquer des blessures.
- Transporter le produit à l'aide d'un engin de levage approprié. Évitez les mouvements brusques pendant le transport afin d'éviter tout basculement.
- Ne montez l'abri de parking qu'à des endroits pour lesquels vous disposez d'un permis de construire et fixez-le solidement. Le cas échéant, contactez le service local ou l'autorité compétente afin de clarifier les obligations en matière de construction.
- Il incombe au propriétaire de s'occuper des autorisations légales de construction. Celles-ci varient en fonction du lieu d'installation (par exemple, pays/état/ville).
- Assurez-vous que les opérateurs et les monteurs ont lu ces instructions et qu'ils respectent les prescriptions pour un travail en toute sécurité.
- Tenez les personnes non autorisées, en particulier les enfants, à l'écart des installations électriques.
- Ne jamais effectuer soi-même des modifications sur l'abri de parking.
- N'utilisez les composants que lorsqu'ils sont entièrement montés.
- N'utilisez pas les composants électriques dans un environnement présentant un risque d'explosion.
- Les mesures de maintenance et d'entretien doivent être effectuées régulièrement par des spécialistes conformément aux normes et dispositions régionales en vigueur. Les travaux électrotechniques ne doivent être effectués que par des électriciens spécialisés ou sous leur direction et leur surveillance.
- Ne procédez à aucune modification ou changement sur les appareils sans l'accord du fabricant, et n'utilisez avec ce système que des composants de la marque SoloPort. Le non-respect de cette règle entraîne l'exclusion de la garantie.
- Pendant le montage, portez un équipement de protection individuelle (EPI) approprié, comme des chaussures de sécurité, des gants, un casque et des lunettes de protection.

## ÉQUIPEMENT

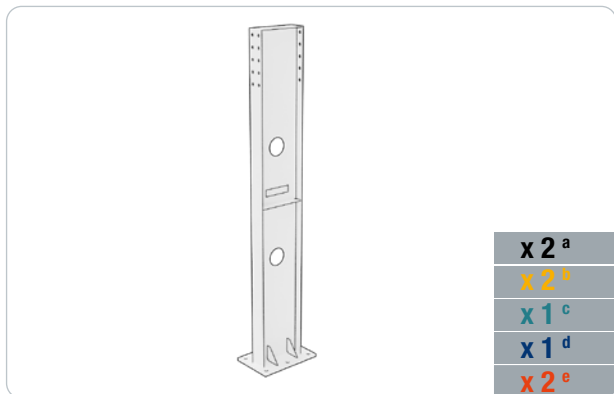
Équipement / Accessoires	PP2-G6300 PP2-A6300	PP4-G12600 PP4-A12600	PP2-G PP4-G PP2-A PP4-A	PP2/40-G6300
15 modules solaires	x			x
30 modules solaires		x		
Châssis en acier	x	x	x	x
Armoire électrique				x
Boîte murale				x
Onduleur				x
Clavier				x
Luminaire avec détecteur de mouvement				x
Piquet de terre				x



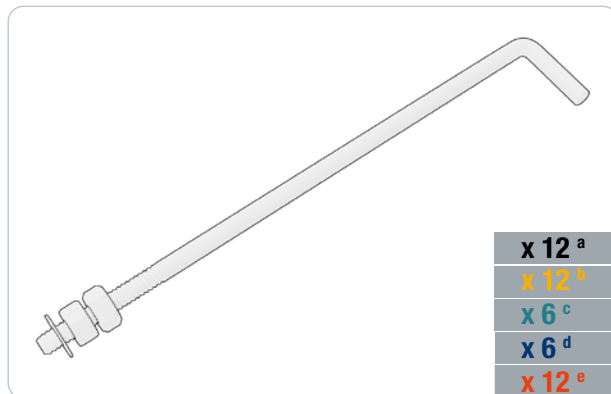
Lors du montage, tenez compte de votre modèle avec l'équipement correspondant.

## LISTE DE PIÈCES

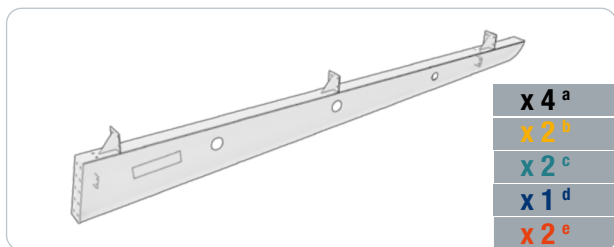
### A Poteaux de soutien



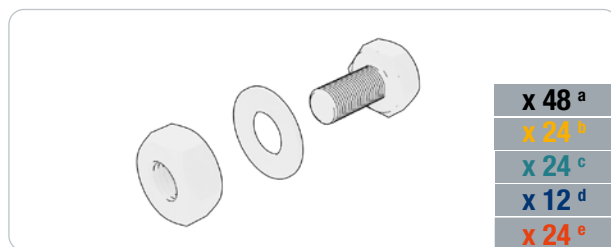
### B M28 x 900 Goujon d'ancrage pour béton



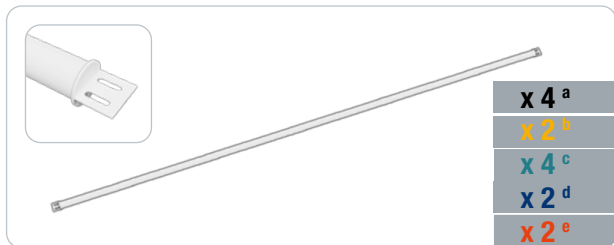
### C Galerie de toit



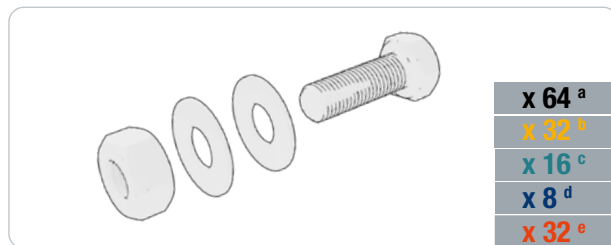
### D M20 x 40 Vis à tête hexagonale



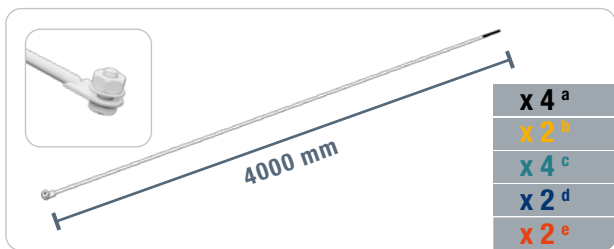
### E Entretoises



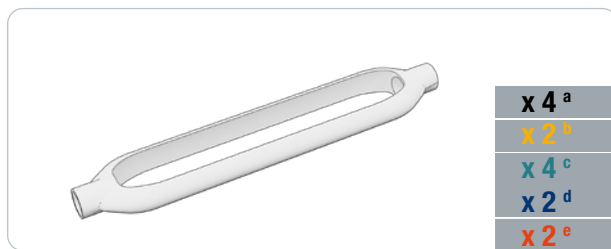
### F M12 x 35 Vis à tête hexagonale



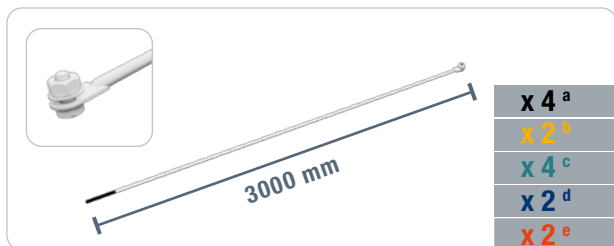
### G Entretoise diagonale 4000 mm



### H Tendeur diagonal



### I Entretoise diagonale 3000 mm



### J Rail avec profilé en C



<sup>a</sup> Nombre de pièces pour PP4-G12600 / PP4-G

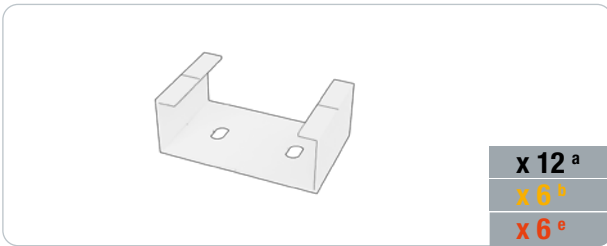
<sup>b</sup> Nombre de pièces pour PP2-G6300 / PP2-G

<sup>c</sup> Nombre de pièces pour PP4-A12600 / PP4-A

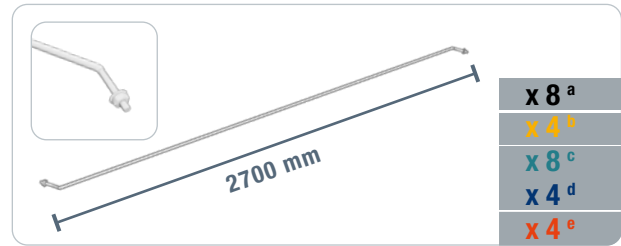
<sup>d</sup> Nombre de pièces pour PP2-A6300 / PP2-A

<sup>e</sup> Nombre de pièces pour PP2/40-G6300

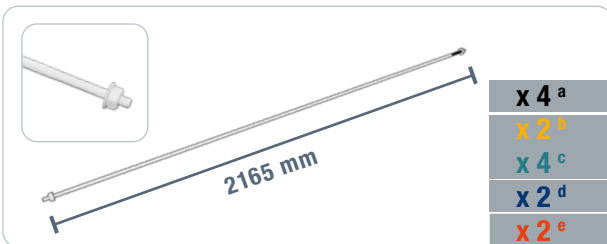
### K Pièce de jonction avec profilé en C



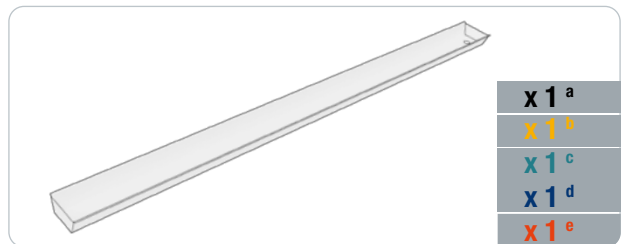
### L Entretoise diagonale



### M Entretoise longitudinale



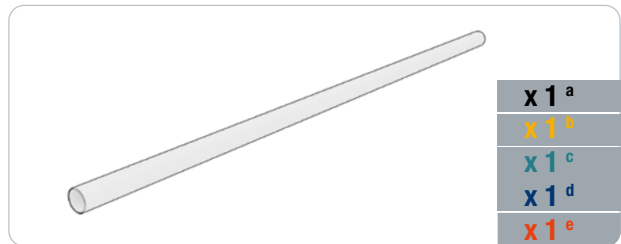
### N Gouttière



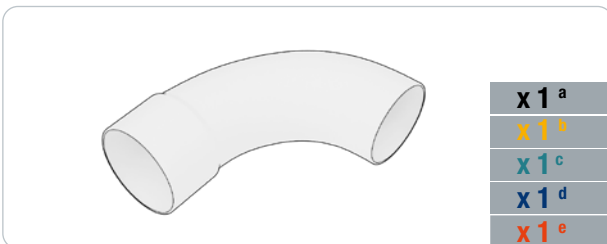
### O Vis autotaraudeuses M6,3 x 25



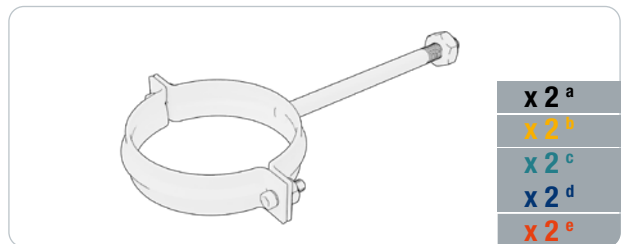
### P Tuyau de descente



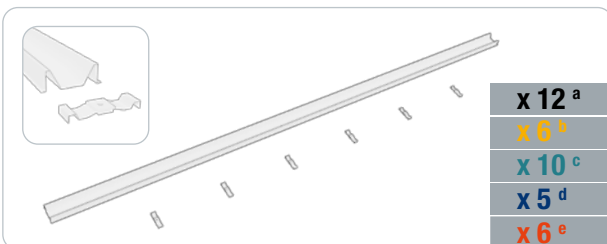
### Q Coude pour tuyau de descente



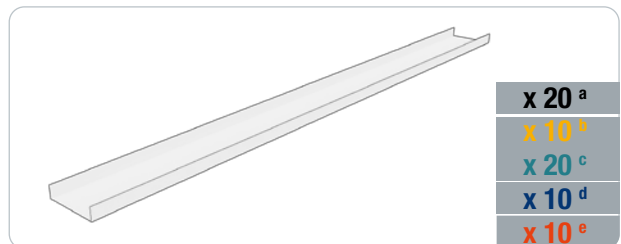
### R Collier pour tuyau de descente



### S Rail avec profilé M



### T Rail avec profilé en U



<sup>a</sup> Nombre de pièces pour PP4-G12600 / PP4-G

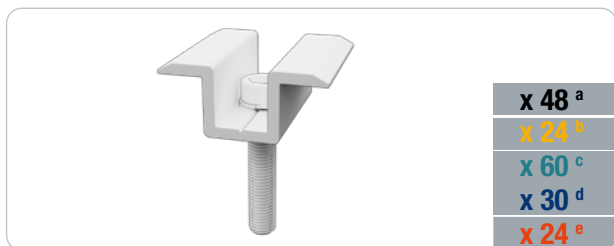
<sup>b</sup> Nombre de pièces pour PP2-G6300 / PP2-G

<sup>c</sup> Nombre de pièces pour PP4-A12600 / PP4-A

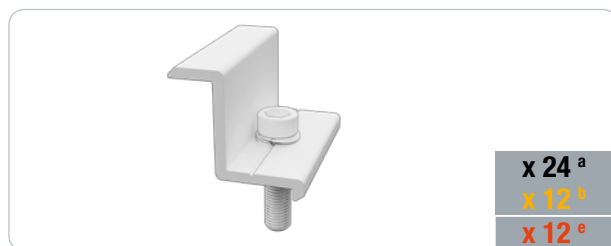
<sup>d</sup> Nombre de pièces pour PP2-A6300 / PP2-A

<sup>e</sup> Nombre de pièces pour PP2/40-G6300

### U Pince centrale



### V Pince extérieure



### W Armoire électrique



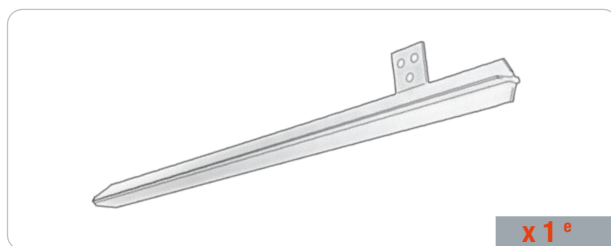
### X Lampe à LED



### Y Détecteur de mouvement



### Z Piquet de terre



Les modules solaires ne sont pas inclus dans la liste des pièces. Vous les trouverez sur le bon de livraison.



Pour les instructions de montage des panneaux rapportés, voir page 58.



Pour le montage et les autres instructions du mode d'emploi, tenez compte de votre modèle avec l'équipement correspondant.

<sup>a</sup> Nombre de pièces pour PP4-G12600 / PP4-G

<sup>c</sup> Nombre de pièces pour PP4-A12600 / PP4-A

<sup>b</sup> Nombre de pièces pour PP2-G6300 / PP2-G

<sup>d</sup> Nombre de pièces pour PP2-A6300 / PP2-A

<sup>e</sup> Nombre de pièces pour PP2/40-G6300

## MONTAGE DU PANNEAU DE BASE

**1**

**2x**

**A 2x** **B 12x**

**1-1** **1-2** **1-3**

Coulez deux fondations en ciment suffisamment dimensionnées pour l'abri de parking. Veillez à ce que le mélange de béton et la profondeur des fondations soient idéaux. Fixez un poteau de soutien (A) dans chaque fondation. Utilisez pour cela les boulons d'ancrage pour béton M28 x 900 fournis (B) et serrez-les fermement avec les écrous et les vis fournis.

**2**

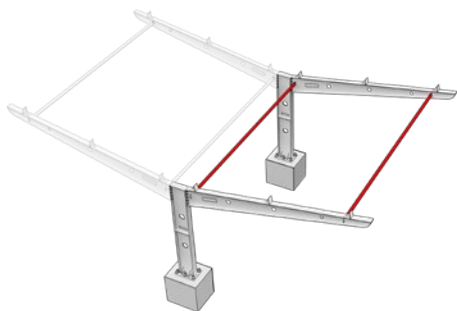
**2x**

**C 2x** **D 20x**

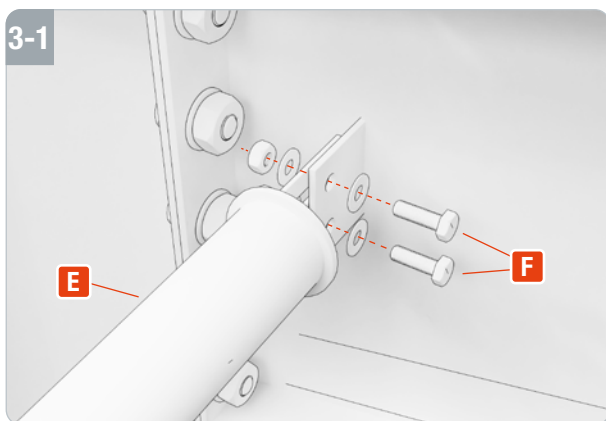
**2-1** **2-2**

Montez les barres de toit (C) sur les poteaux de support (A) à l'aide des vis à tête hexagonale M20 x 40 (D), écrous et rondelles compris.

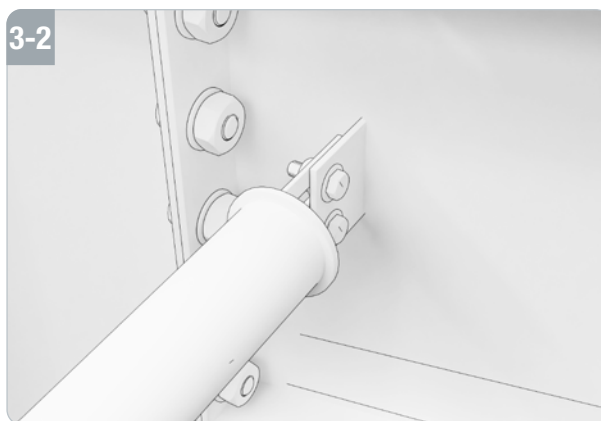
3



3-1

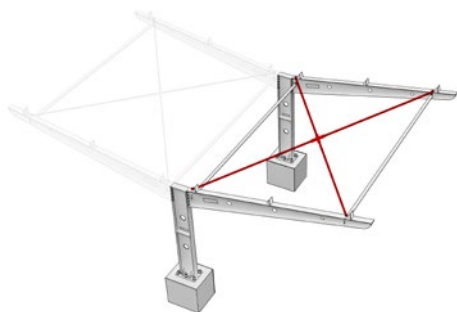


3-2

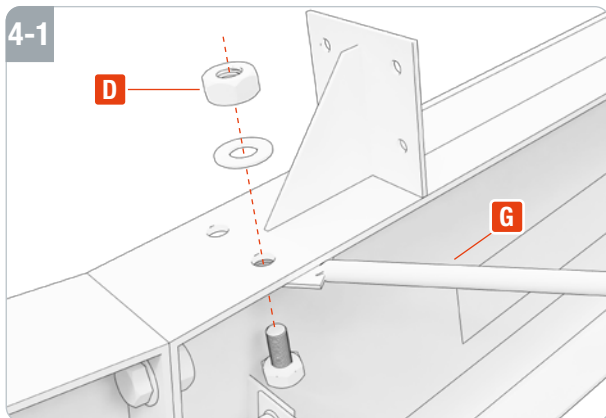


Fixez les entretoises (E) sur les barres de toit (C) avec les vis à tête hexagonale M12 x 35 (F), les écrous et les rondelles fournis.

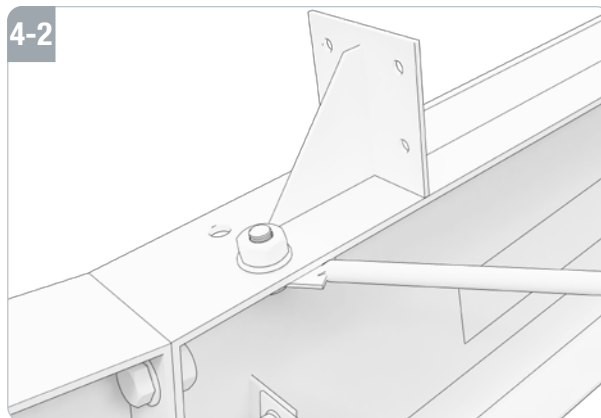
4



4-1



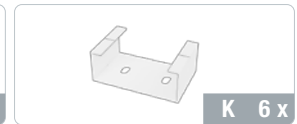
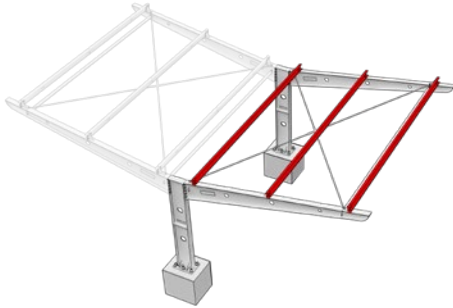
4-2



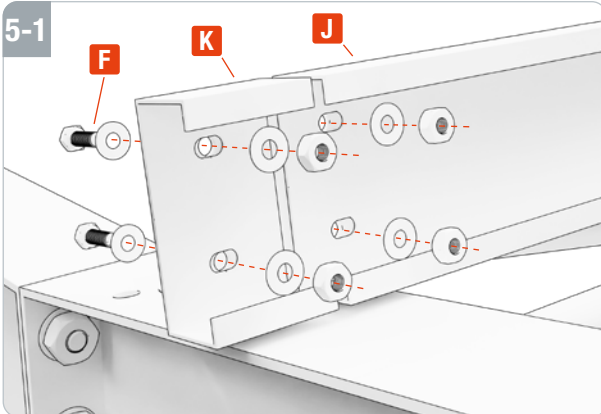
Assemblez l'entretoise diagonale (G) et l'entretoise diagonale (I) avec le tendeur diagonal (H). Montez les entretoises diagonales reliées (G) et (I) sur les barres de toit (C) en les croisant à l'aide du tendeur diagonal (H). Utilisez pour cela les vis à tête hexagonale M20 x 40 mm, les écrous et les rondelles fournis (D).



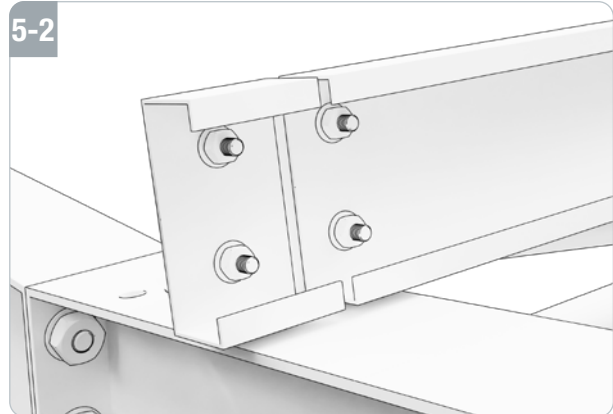
5



5-1

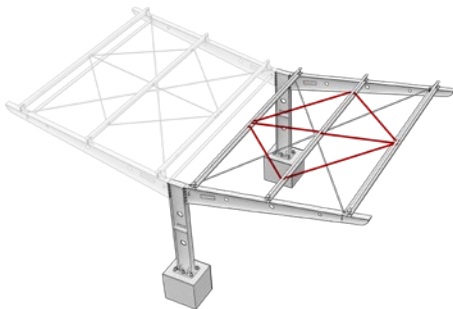


5-2

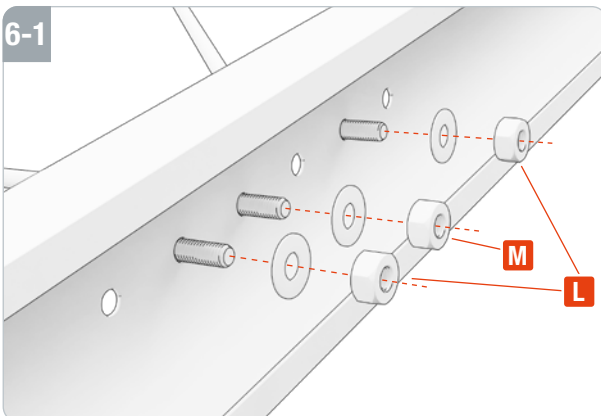


Fixez le rail avec le profilé en C (J) aux deux trous intérieurs de l'équerre des barres de toit (C) déjà montée. Vissez les pièces de jonction avec le profilé en C (K) dans les deux trous extérieurs de l'équerre et serrez-les fermement. Utilisez à cet effet les vis à tête hexagonale M12 x 35 (F) fournies avec les écrous et les rondelles.

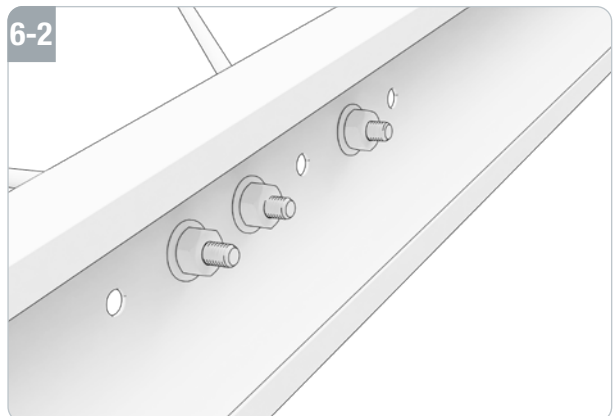
6



6-1

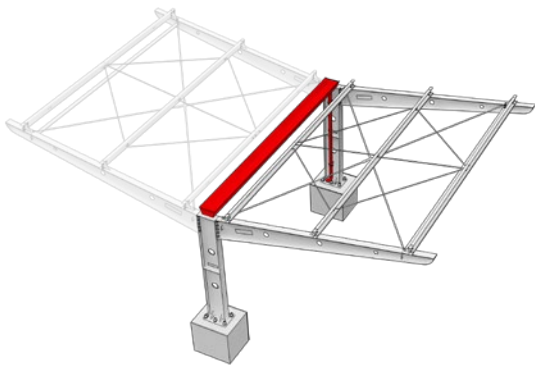


6-2

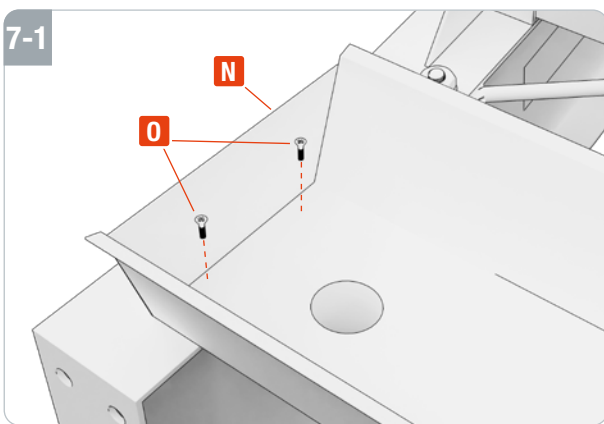


Insérez l'entretoise diagonale (L) et l'entretoise longitudinale (M) dans les trous prévus du rail avec profilé en C (J). Serrez les entretoises diagonales (L) et les entretoises longitudinales (M) avec les écrous et les rondelles fournis.

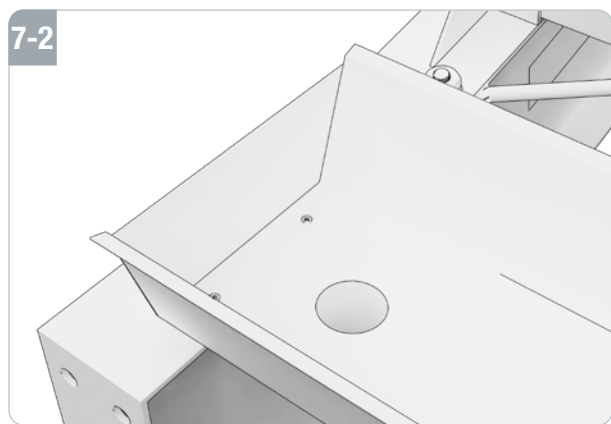
7



7-1

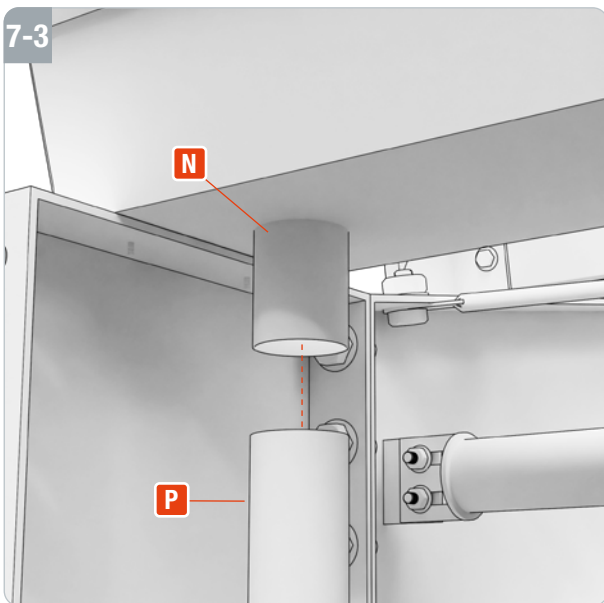


7-2

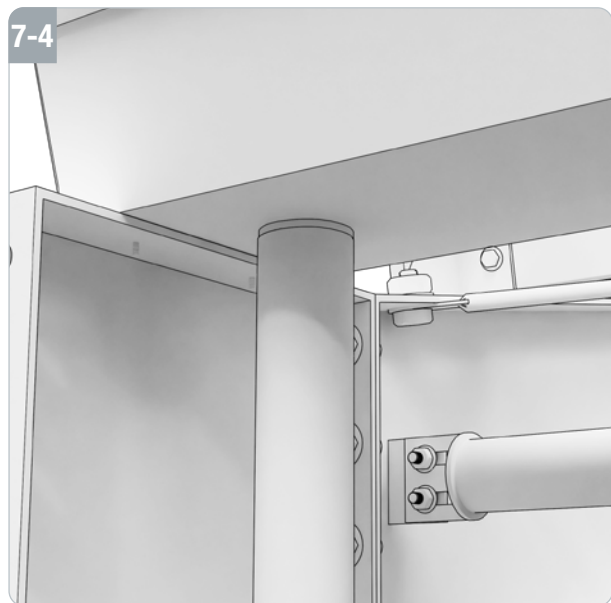


Fixez la gouttière (N) aux deux poteaux de support (A) à l'aide des quatre vis autotaraudeuses M6,3 x 25 (O).

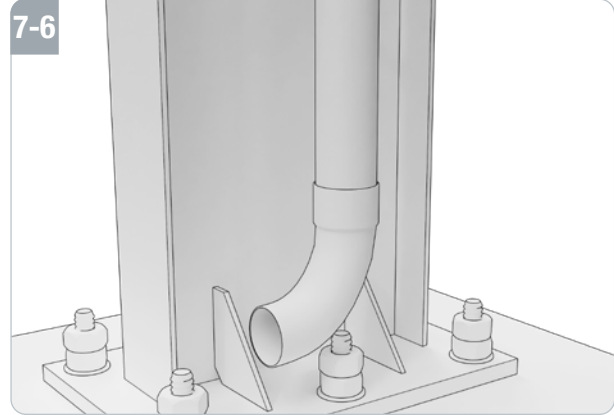
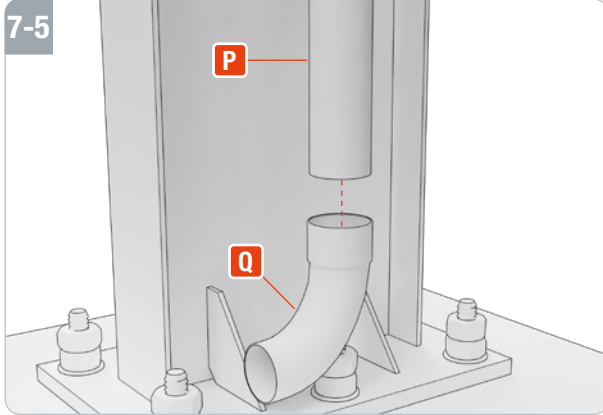
7-3



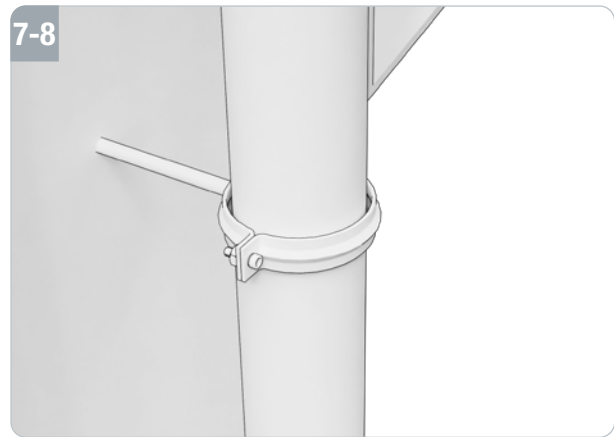
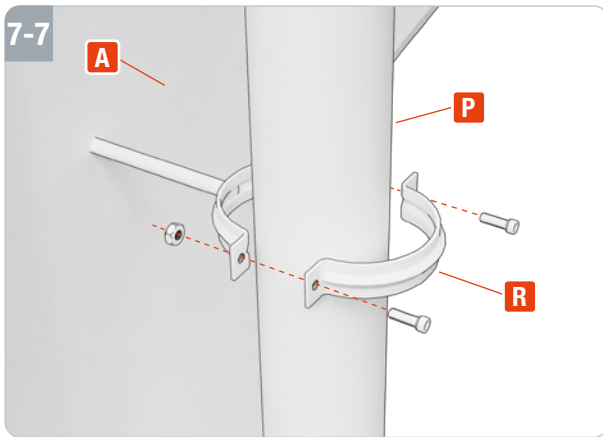
7-4



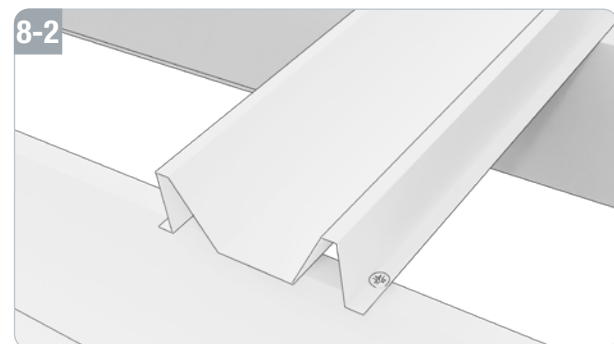
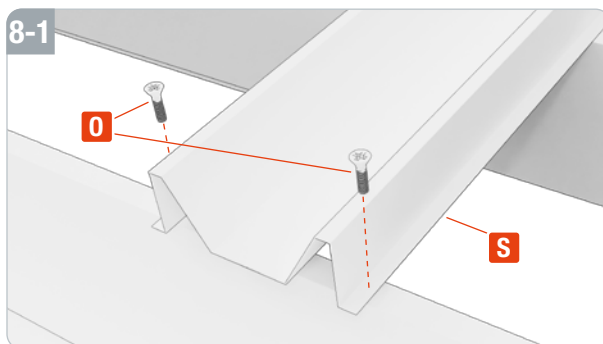
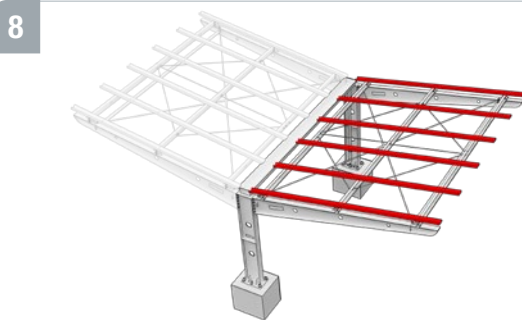
Insérez ensuite le tuyau de descente (P) dans le trou prévu de la gouttière (N).



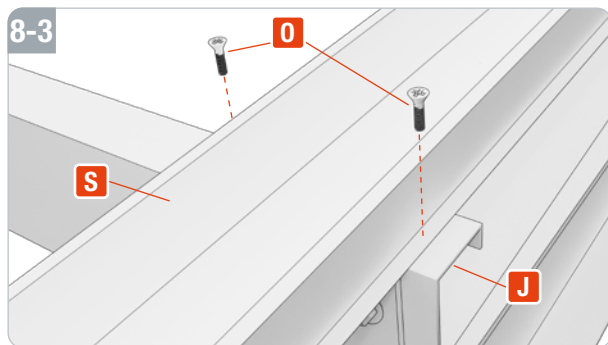
Sur l'extrémité inférieure du tuyau de descente (P), placez la pièce coudée (Q).



Les deux colliers (R) fournis, vis comprises, permettent de visser le tuyau de descente (P) sur les poteaux de soutien (A).

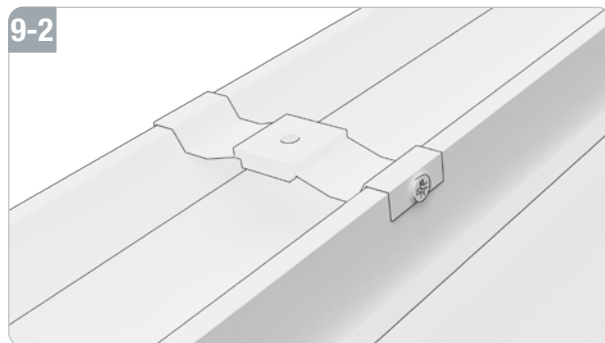
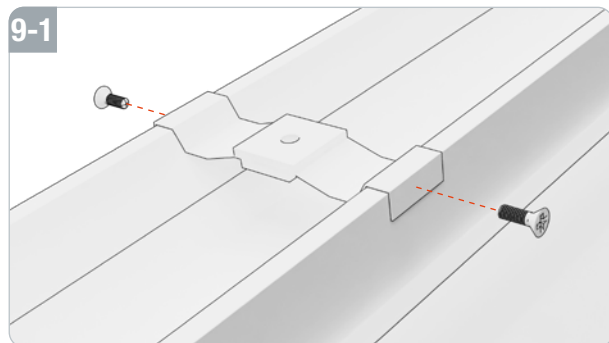
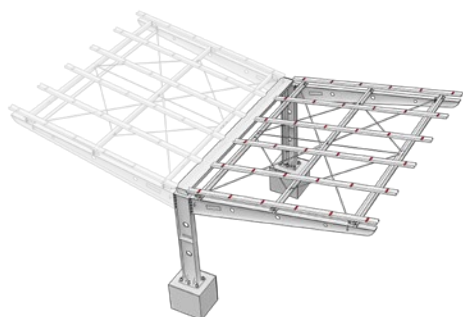


Placez les rails avec profilé en M (S) à une distance égale de 1154 mm parallèlement aux barres de toit (C). Vissez d'abord les extrémités des rails avec profilé en M (S) à la gouttière (N) avec les vis autotaraudeuses M6,3 x 25 (O).

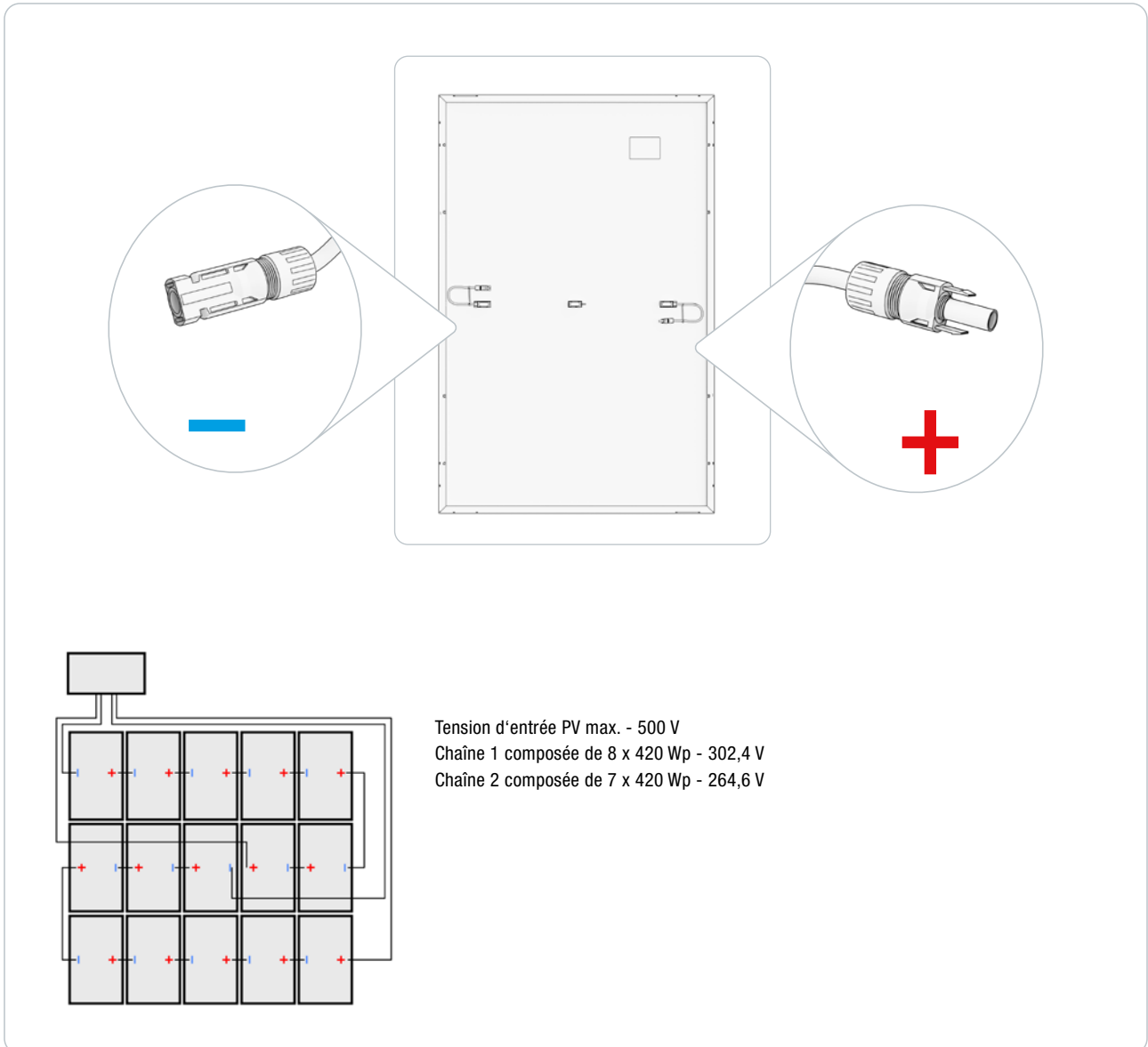


Ensuite, continuez à utiliser les vis autotaraudeuses M6,3 x 25 (O) pour monter les rails avec profil M (S) sur les rails avec profil C (J).

9

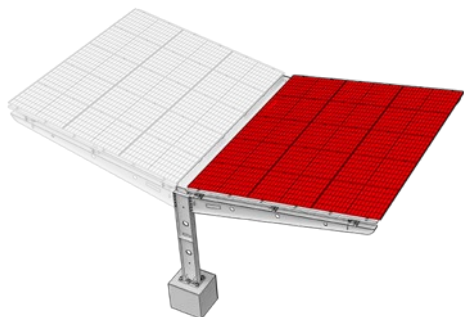


Ensuite, vissez les attaches fournies sur les rails avec profil M (S) à l'aide de vis autotaraudeuses M6,3 x 25 (O). Six attaches sont fixées sur un rail avec profilé M (S).

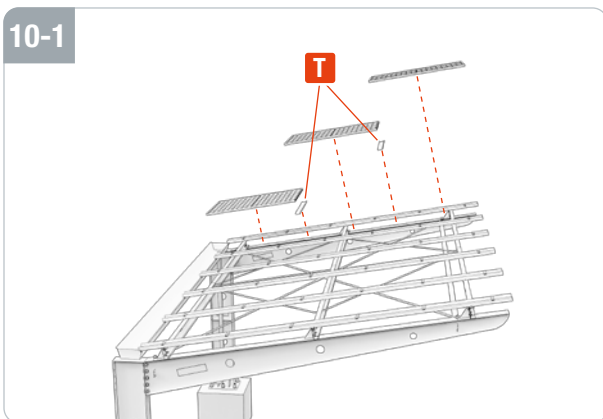


Veillez à ce que les modules solaires soient raccordés en 2 séries.  
Pour cela, raccordez 8 modules solaires au string 1 et 7 modules solaires au string 2.  
Ne raccordez les connecteurs +/- que lorsque les modules solaires sont solidement montés.

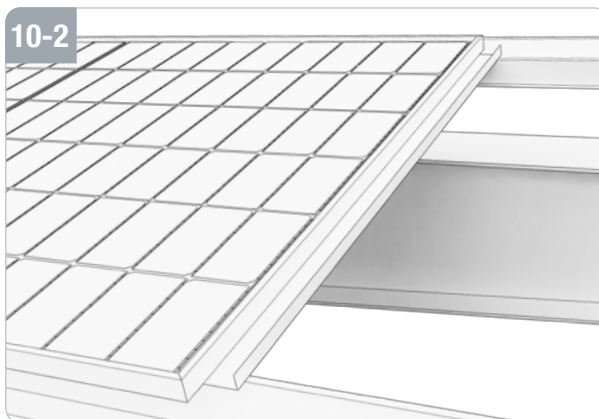
10



10-1

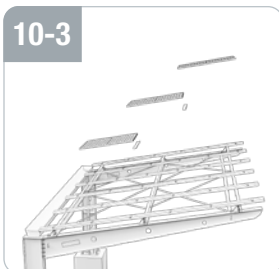


10-2

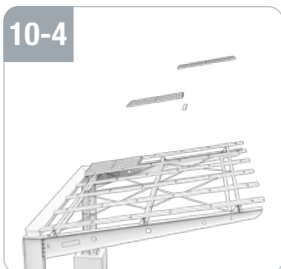


Placez le rail avec profil en U (T) transversalement entre le rail avec profil en M (S). Placez deux rails avec profil en U (T) au-dessus et en dessous du panneau solaire central par rangée de 3.

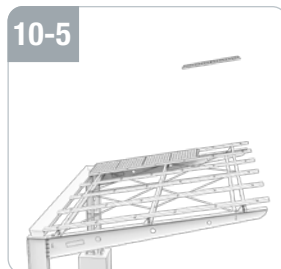
10-3



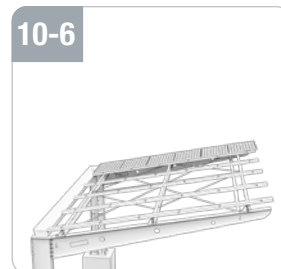
10-4



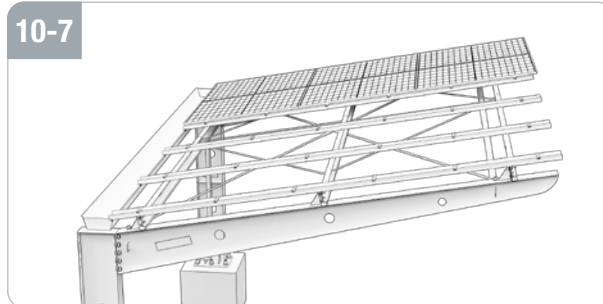
10-5



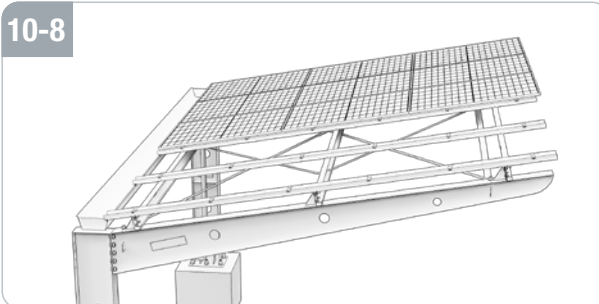
10-6



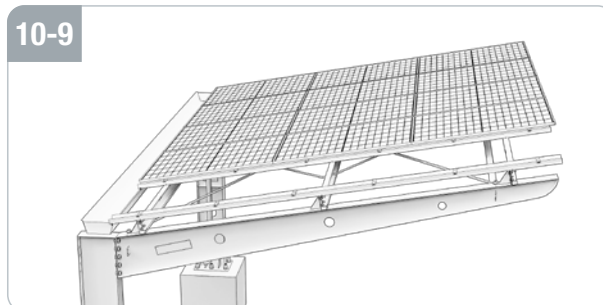
10-7



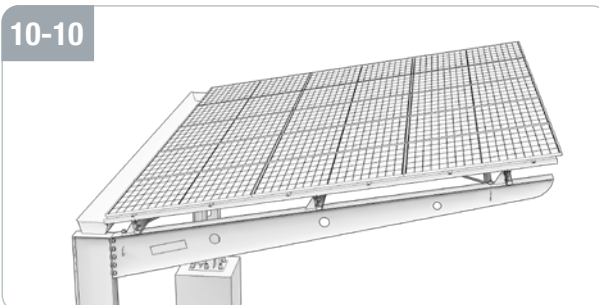
10-8



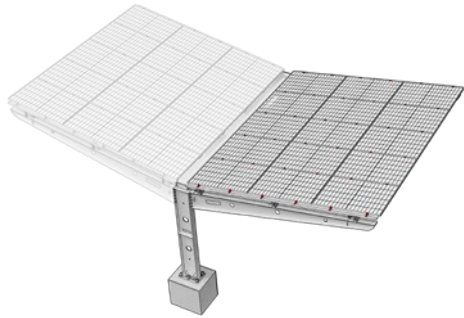
10-9



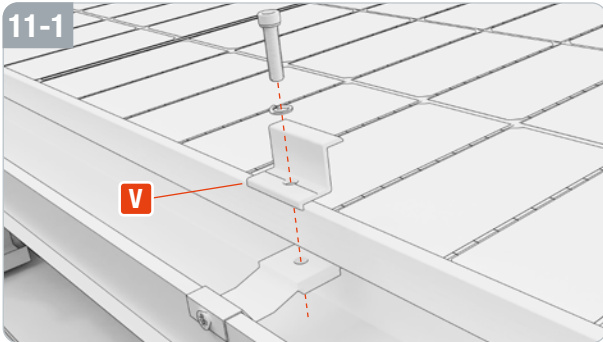
10-10



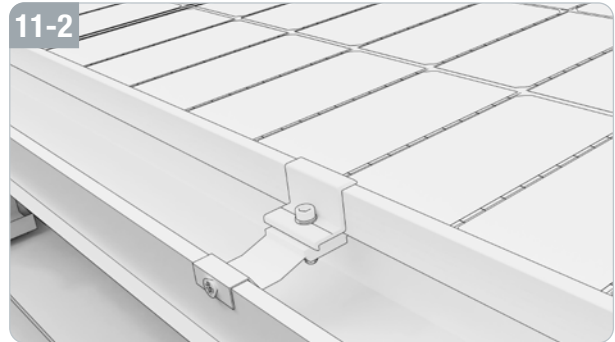
11



11-1

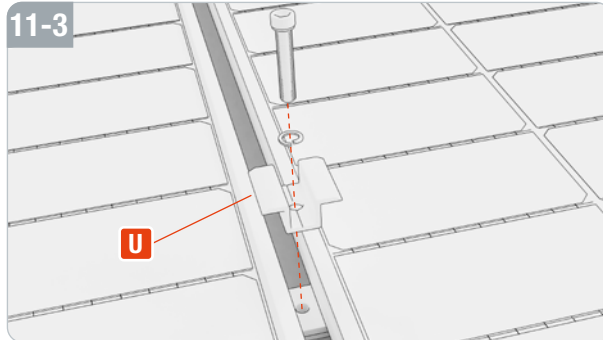


11-2

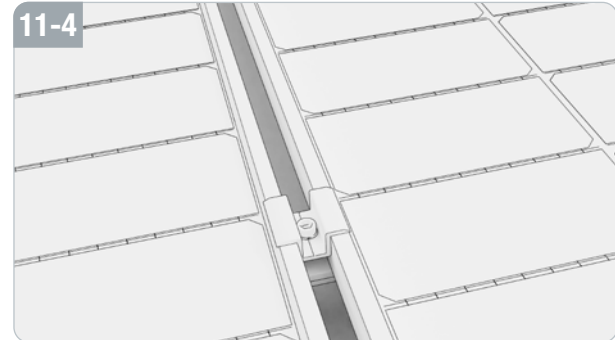


Fixez les modules solaires à l'aide des pinces extérieures (V) sur les deux rails extérieurs avec profilé en M (S).

11-3



11-4

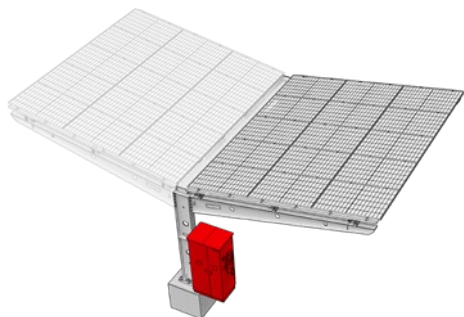


Les modules solaires sont montés à l'intérieur de l'abri sur les rails avec profilé M (S) à l'aide des pinces centrales (U). Un module solaire est fixé à droite et à gauche à l'aide de deux pinces. Les connecteurs des modules solaires sont compatibles MC4.

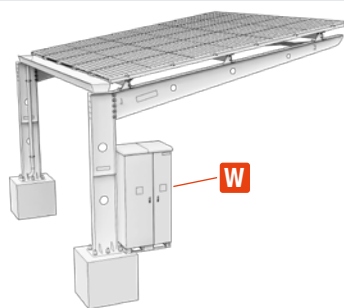
## MONTAGE DE L'ARMOIRE ÉLECTRIQUE ET DU LUMINAIRE À LED

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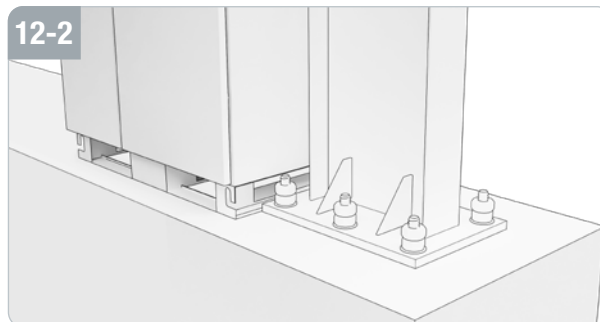
12



12-1



12-2



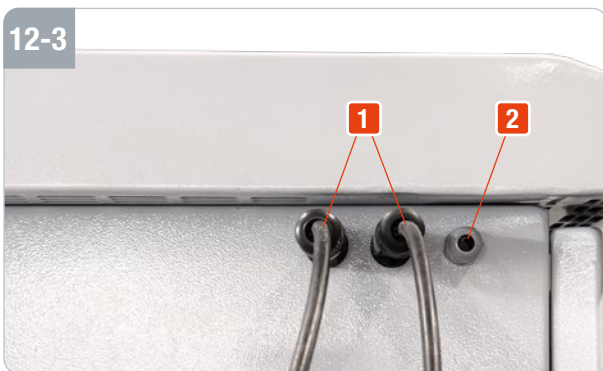
Positionnez l'armoire électrique (W) contre l'un des supports extérieurs (A).

L'armoire électrique doit être positionnée le plus près possible du pied.



Les modules solaires sont raccordés à l'armoire électrique. Ne les connectez pas directement à la Wallbox.

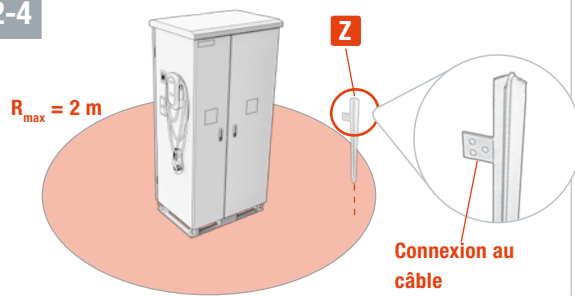
12-3



Branchez les câbles des modules solaires et le câble d'alimentation du luminaire une fois le montage complètement terminé. Les câbles des modules solaires dans 1 et le câble du luminaire dans l'ouverture 2.

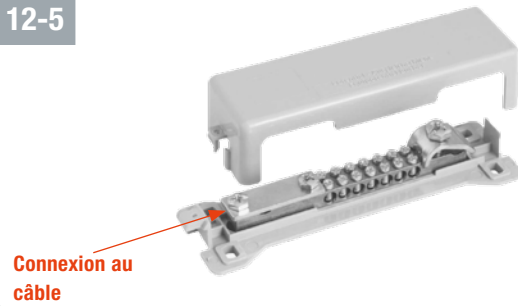


12-4



Enfoncez le piquet de terre (Z) dans le sol à une distance maximale de 2 m du boîtier électrique. Fixez le câble à l'extrémité supérieure.

12-5



Raccordez l'autre extrémité du câble à la barre d'équipotentialité. Vous la trouverez à l'intérieur de l'armoire électrique.

12-6



Placez l'interrupteur principal de la boîte à fusibles sur la position « ON ».

12-7

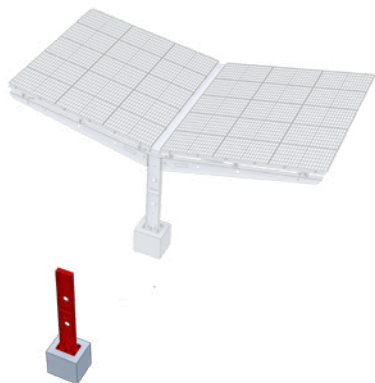


Tournez le sectionneur rouge sur « ON ».

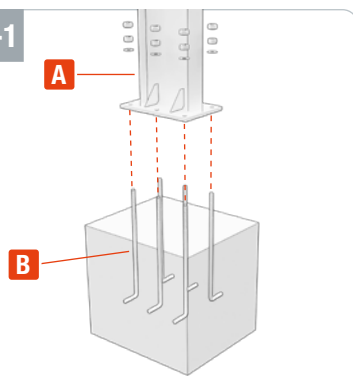
## MONTAGE DU PANNEAU DE MONTAGE

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EN  
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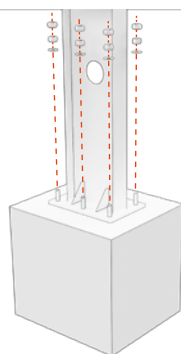
13



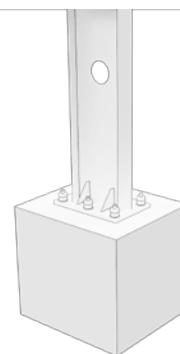
13-1



13-2

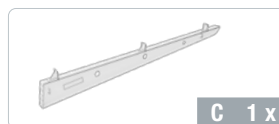
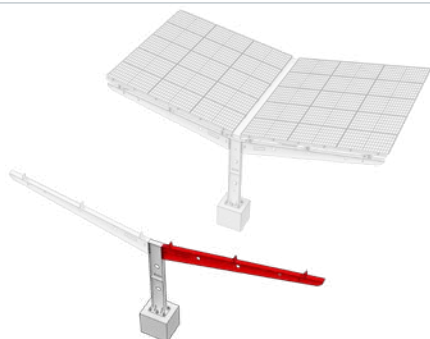


13-3

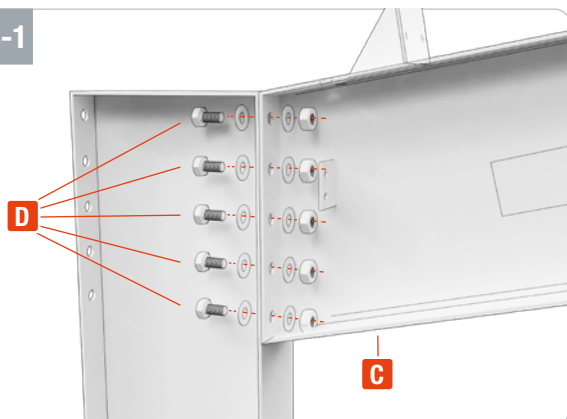


Coulez une autre fondation en ciment suffisamment dimensionnée pour l'abri de parking. Veillez à ce que le mélange de béton et la profondeur de la fondation soient idéaux. Fixez le poteau de support (A) dans la fondation. Utilisez pour cela les boulons d'ancrage pour béton M28 x 900 fournis (B) et serrez-les fermement avec les écrous et les vis fournis.

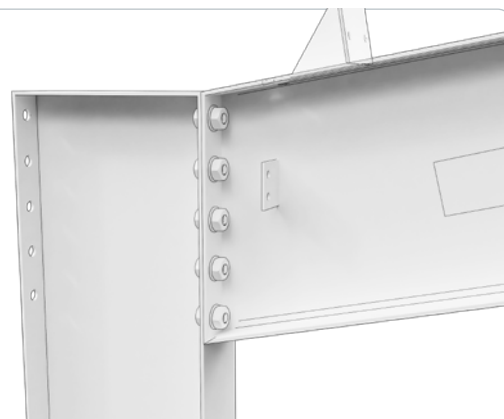
14



14-1



14-2

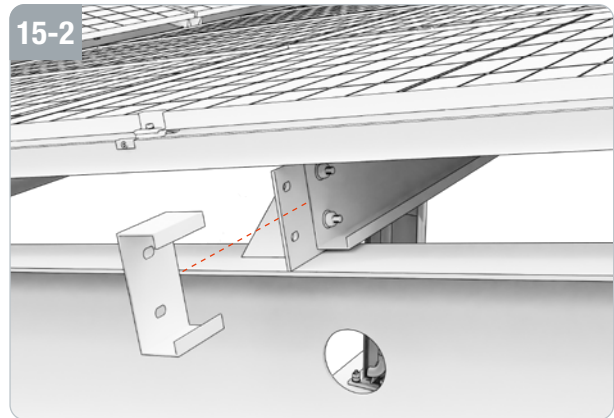
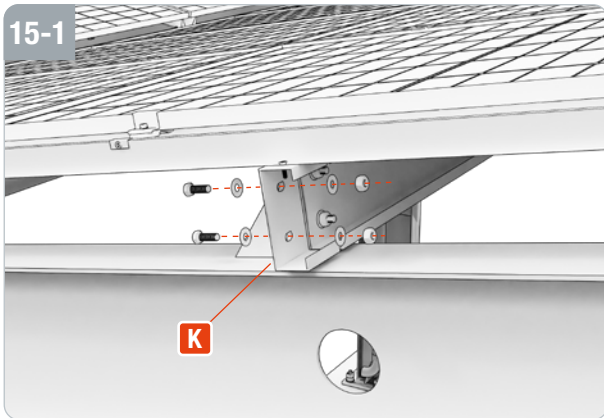
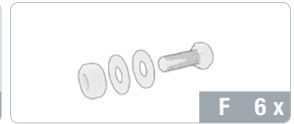
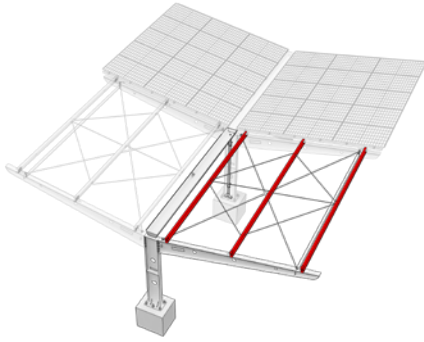


Montez la galerie de toit (C) sur le poteau de support (A) à l'aide des vis à tête hexagonale M20 x 40 (D), y compris les écrous et les rondelles.

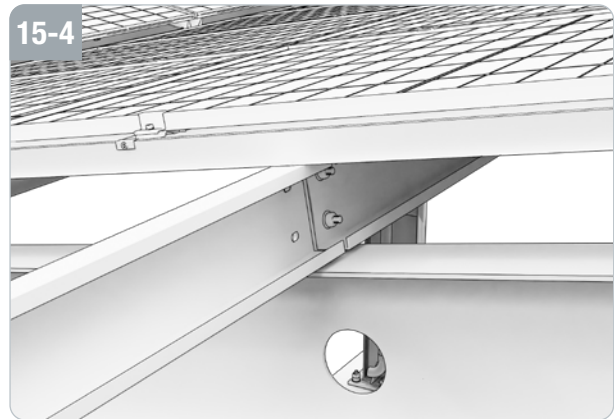
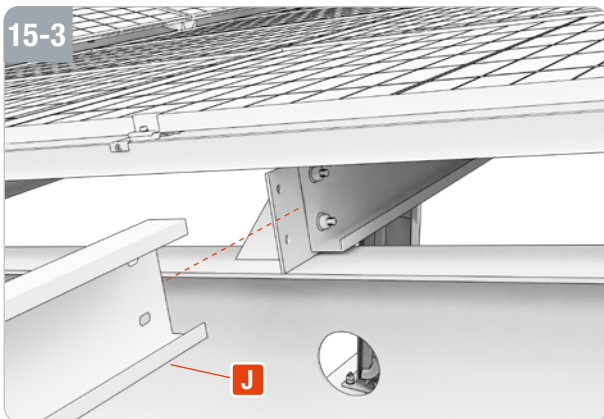


Les étapes 3 et 4 peuvent être reprises du champ de base. Voir page 58.

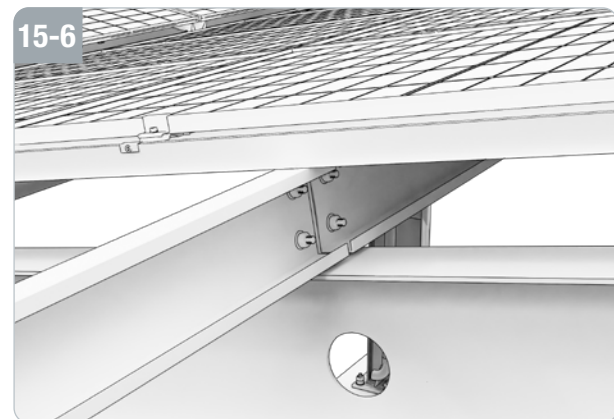
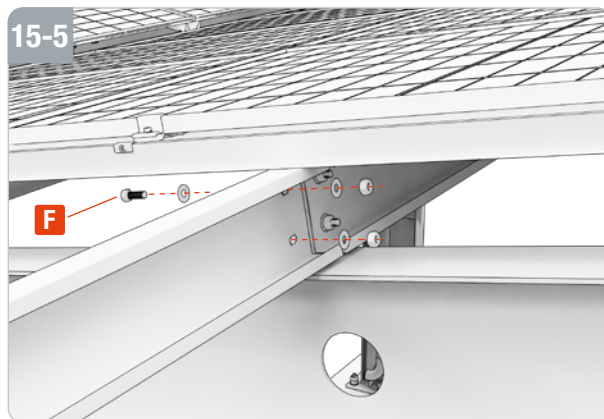
15



Retirez les pièces de jonction avec le profilé en C (K) sur le panneau de base.



Fixez les rails avec le profilé en C (J) du panneau rapporté sur les équerres des supports de toit (C) de l'abri de parking monté.



Utilisez à cet effet les vis à tête hexagonale M12 x 35 (F) fournies avec les écrous et les rondelles.



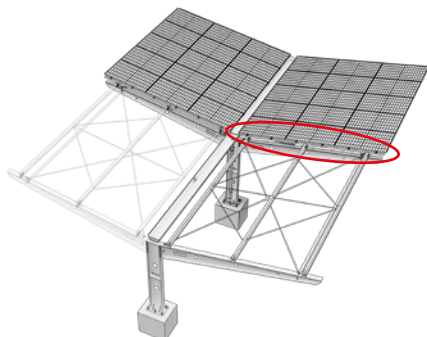
Les étapes 6 à 8 peuvent être reprises du champ de base. Voir à partir de la page 59.

DE

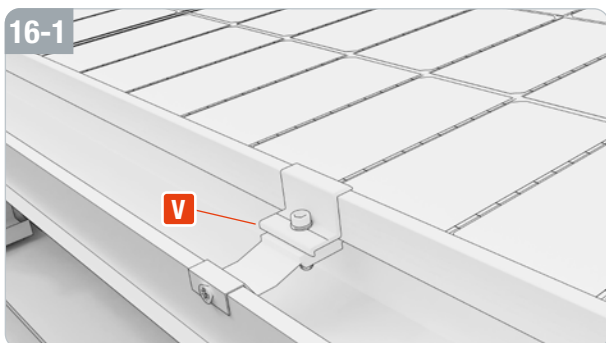
EN

FR

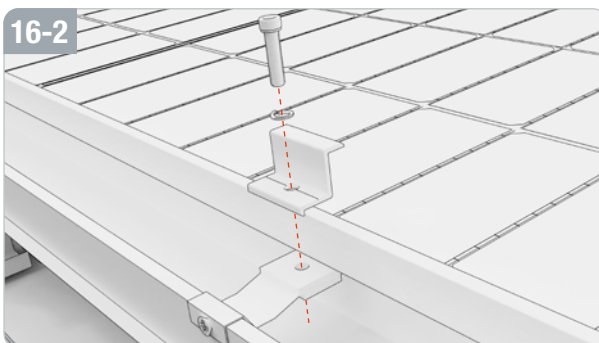
16



16-1

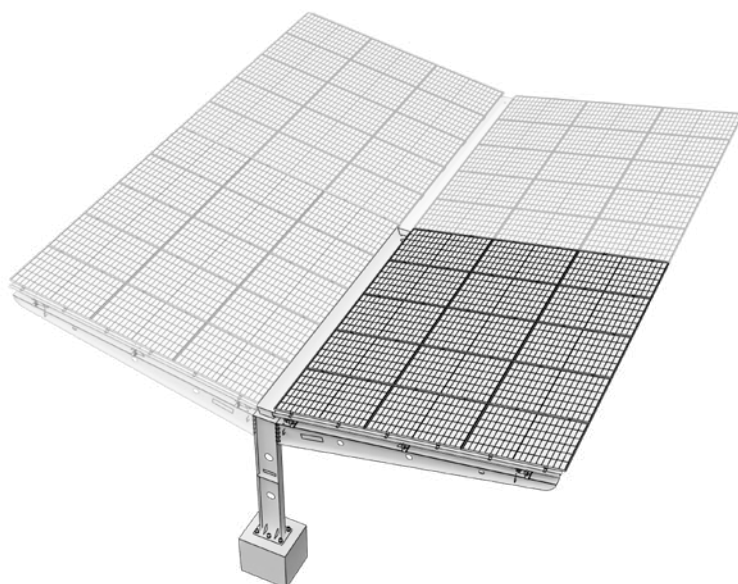


16-2



Retirez les bornes extérieures (V) du côté du montage du panneau de base.

17



Fixez les modules solaires comme expliqué aux étapes 10 et 11. Voir à partir de la page 53.

## SERVICE & CONTACT

Contactez nos experts produits et trouvez de l'aide et des solutions pour votre produit. Vous trouverez ici toutes les informations de contact listées par pays et par langue: [www.topregal.fr/fr/service](http://www.topregal.fr/fr/service)

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