EN

DE

INSTALLATION MANUAL
INSTALLATIONSANLEITUNG

Solar Carport (L051) Mounting System V1.0

Solar-Carport (L051) Montagesystem V1.0

1.Installation Tools
1.Werkzeuge für die Installation

Allen Key
(M8-M12)
Inbusschlüssel
(M8-M12)

Tape
Maßband

Adjustable Wrench
(M8-M12)
Rollgabelschlüssel

Drill
Elektrische Handbohrmaschine

Ratchet Tap Wrench
(M8-M12)
Knarrenschlüssel

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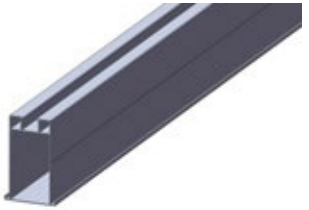
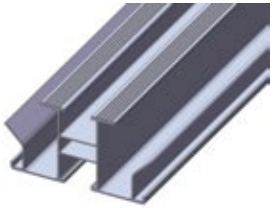
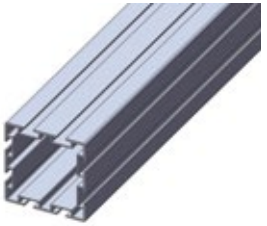
2. Components
2. Zubehör



Rail
Querschiene



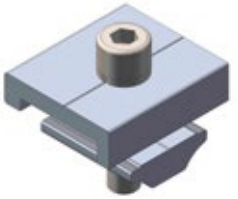
Waterproof Rail
Wasserdichte Schiene



L051 Pillar/Beams
L051 Säule

U Clamp (5°)
U-Anschluss（5°）

Rail Clamp (80mm)
Schienenklemme（80mm）



Rail Clamp 1
Schienenklemme 1

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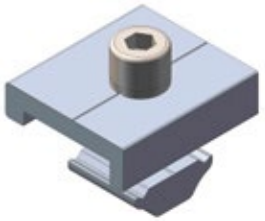
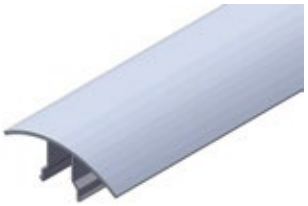


Rail Clamp 2
Schienenklemme 2

End Clamp
Endklemme

Mid Clamp
Mittelklemme

L feet
L-Fuß



Mid Clamp Cover Plate
Mittelklemmkappe

Auxiliary Waterproof Rail
Zusätzliche wasserdichte Schiene

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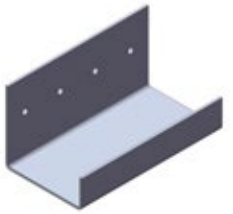
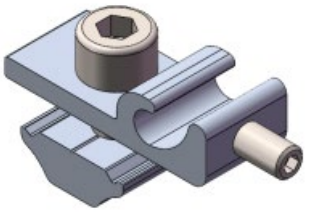
Water Guide Gutter
Entwässerungsrinne

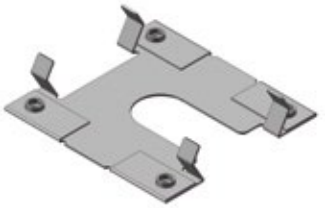


Water Guide Gutter Splice
Entwässerungsrinne-Verbindung

Water Guide Cover Plate
Entwässerungsrinne-Kappe



Grounding Copper Clamp
Erdungsklemme aus Kupfer



Conductive Sheet
Erdungsklammer

Rail Connector
Schienenverbindung

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3. Installation Instruction

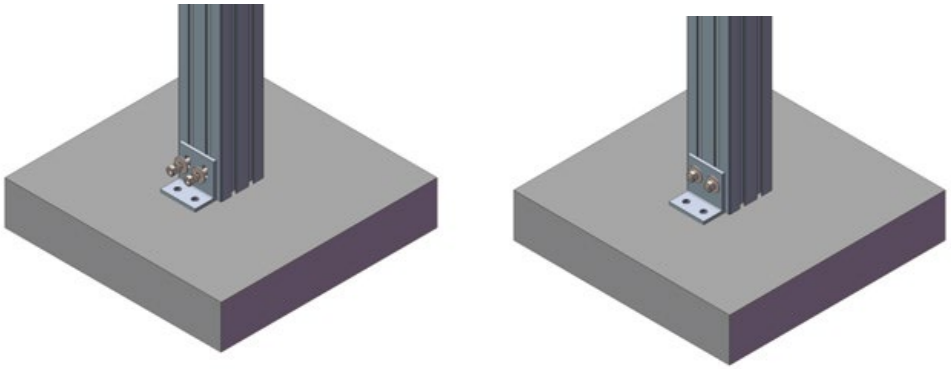
3. Installationsschritte

3.1 Install L feet and pillars

3.1 Installieren Sie die untere L-Fuß und die Säule

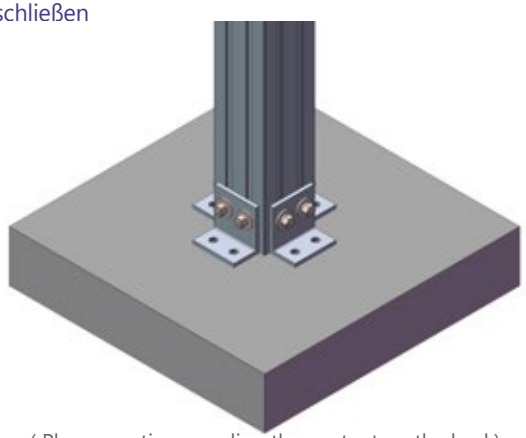
3.11 Build concrete foundation. Put up the pillar, fix L feet on the pillar with T-bolts. As shown in the figure below

3.11 Legen Sie das Zement, stellen Sie die Säule gemäß der Zeichnung auf und befestigen Sie den L-Fuß mit T-Bolzen an der Säule



3.12 Repeat step 3.11, install the remaining L feet on the pillars in all four directions

3.12 Wiederholen Sie Schritt 3.11, um die Installation der L-Fuß in den vier Richtungen der Säule abzuschließen



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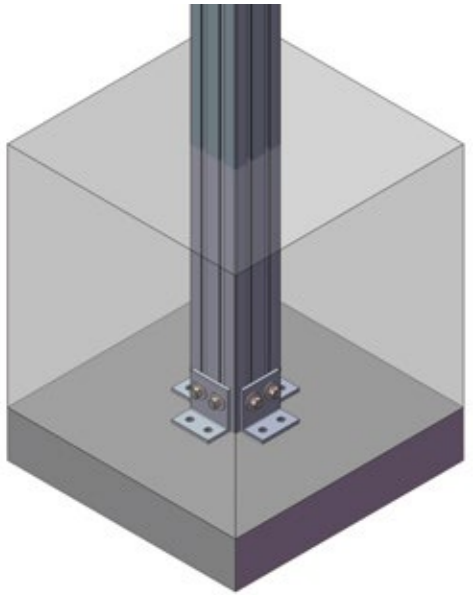
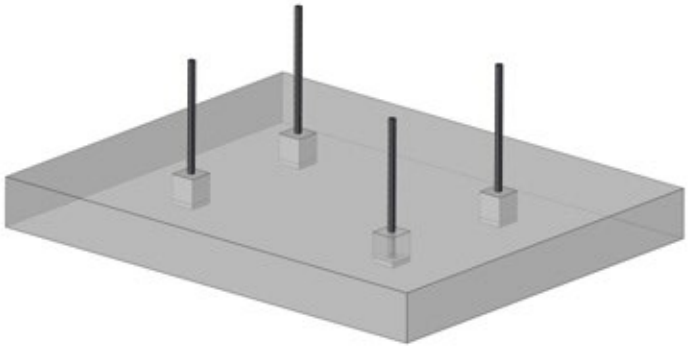
3.13 Pour the concrete layers, then bury the pillars with concrete under the ground

3.13 Gießen Sie die Zementschicht ein und platzieren Sie die Säulen und Zementpfeiler unter der Erde



3.14 According to the design drawings to confirm the distance between the front and back pillars and then repeat the steps above to install all of them

3.14 Bestätigen Sie anhand der Zeichnungen den Abstand zwischen den vorderen und hinteren Säulen und wiederholen Sie die oben genannten Schritte, um die Installation der vorderen und hinteren Säulen abzuschließen



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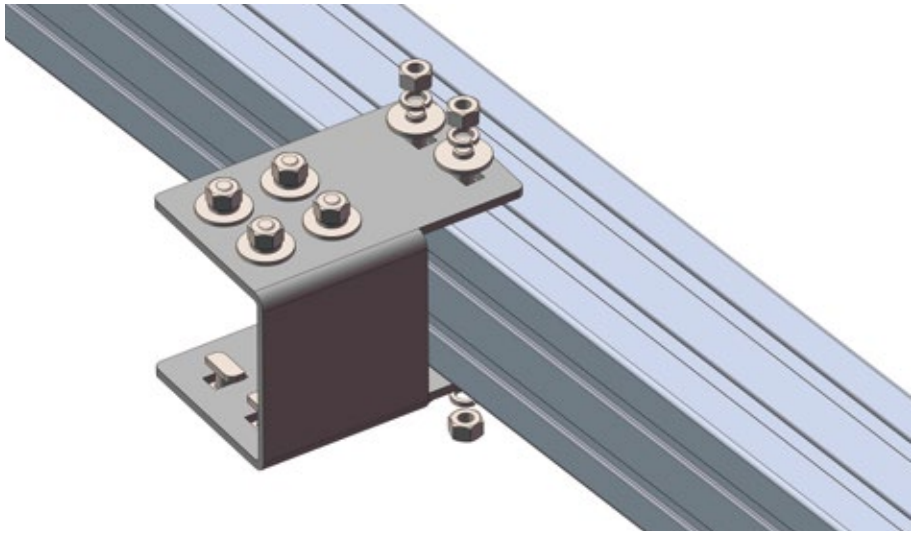
3.2 Install beams

3.2 Längsträgermontage

3.21 Take out the beams and the U-connectors, fix them with T-bolts according to the figures below

3.21 Nehmen Sie gemäß den Zeichnungen die Längsträger und U-Anschluss Verbinder heraus und befestigen Sie sie mit T-Bolzen



3.22 Repeat the above steps to install the beams and connectors (leave them unlocked for now)

3.22 Wiederholen Sie die oben genannten Schritte, um die Installation der Längsträger und Verbinder abzuschließen (noch nicht verriegelt)

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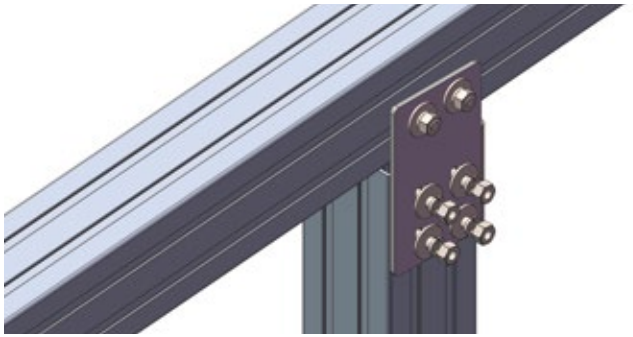
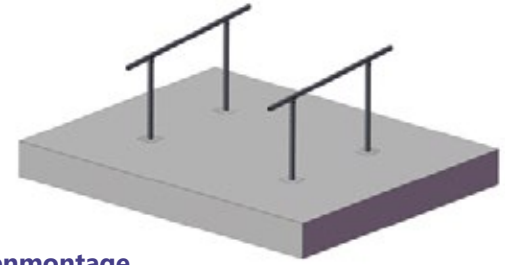
3.23 Fix the pillars by fastening T-bolts on both sides of the connector

3.23 Verbinden Sie die Säule über T-Bolzen auf beiden Seiten des Verbinders



3.24 After determining the distance between the front and rear connectors, repeat the above steps to install the beams and lock the bolts

3.24 Nachdem Sie den Abstand zwischen den vorderen und hinteren Anschlüssen überprüft haben, wiederholen Sie die oben genannten Schritte, ziehen Sie die Schrauben fest und schließen Sie die Installation der Längsträger ab

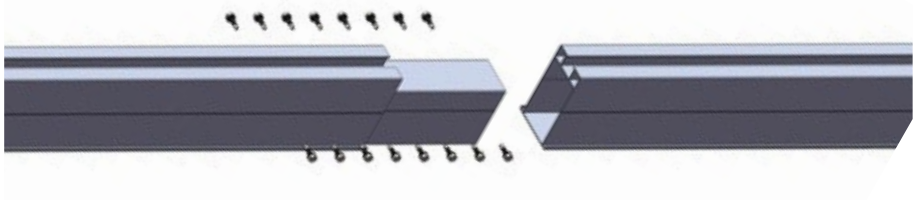


3.3 Install rails

3.3 Querschienenmontage

3.31 The horizontal rails are fixed by rail connectors and self-tapping screws ST6.3

3.31 Die Verbindung der Querschienen erfolgt über Schienenverbinder und in die Schienen eingeschraubte selbstschneidende ST6.3-Schrauben



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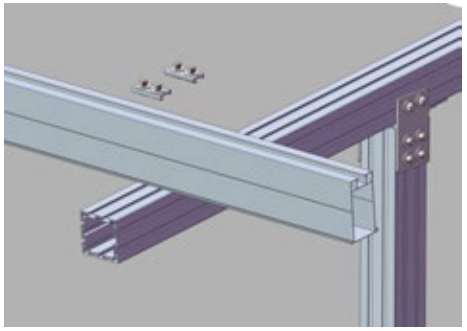
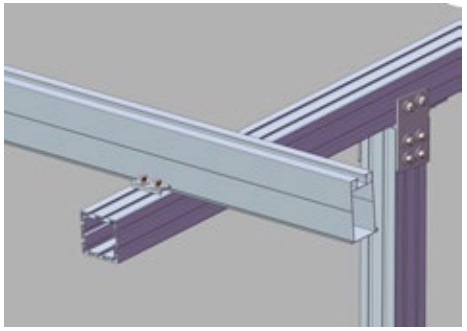
3.32 Place the horizontal rails on the beam and fix it with a rail clamp (80 mm) on both sides of the rail

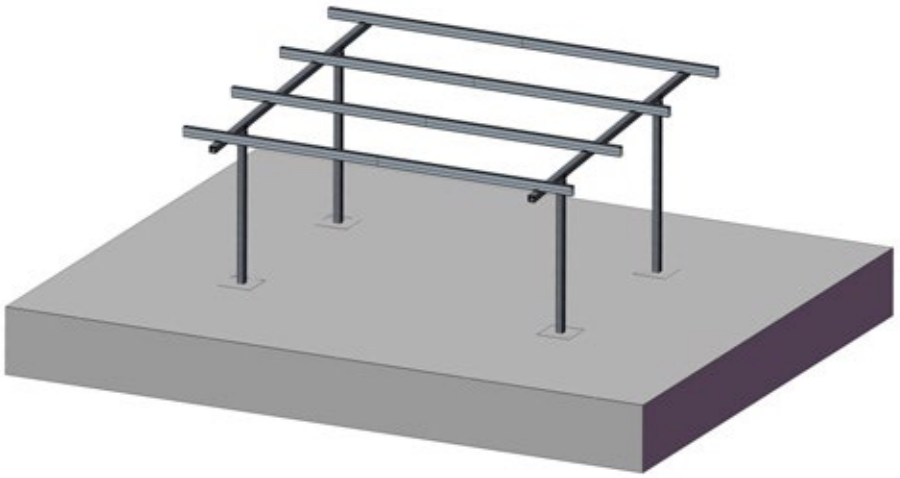
3.32 Legen Sie die Querschiene auf den Längsträger und befestigen Sie diese mit Schienenklemmen (80 mm) auf beiden Seiten der Schiene





3.33 Repeat the above steps to complete the installation of the horizontal rails

3.33 Wiederholen Sie die oben genannten Schritte, um die Installation der Querschiene abzuschließen



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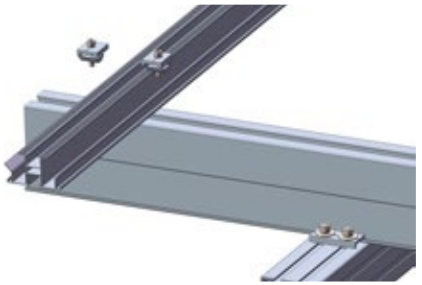
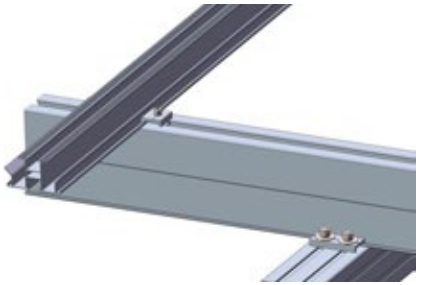
3.4 Install waterproof rails

3.4 Installation der wasserdichten Schiene

3.41 Put the waterproof rail onto the horizontal rails and fix rail clamp 1 to the horizontal rails gutter. Attach a clamp on each side of the waterproof rail. As shown in the figures below

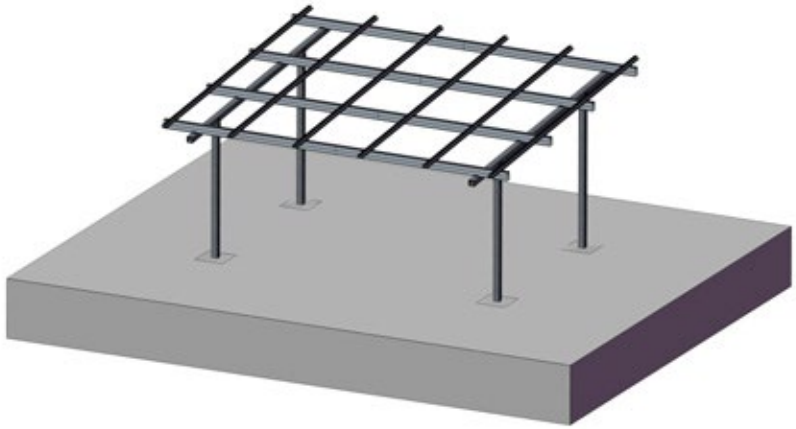
3.41 Platzieren Sie die wasserdichte Schiene gemäß der Zeichnung auf der Querschiene und lassen Sie dann den Schienen-Klemme 1 in die Nut der Querschiene einrasten. Und verriegeln Sie einen Klemme auf beiden Seiten der wasserdichten Schiene





3.42 Repeat the above steps to complete the installation of waterproof rails

3.42 Wiederholen Sie die oben genannten Schritte, um die Installation der wasserdichten Schiene abzuschließen



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3.5 Install solar panels

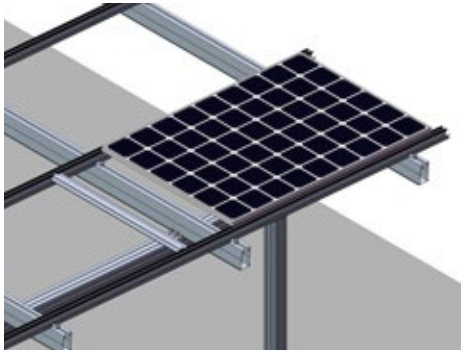
3.5 Installation von Solarmodulen

3.51 Place the panels on the rails as shown in the figures below

3.51 Legen Sie das Solarmodulen gemäß den Zeichnungen auf die Schienen

3.52 Make sure the auxiliary waterproof rail is positioned below the gap between the two waterproof rails when placing the panels

3.52 Bei der Platzierung von Solarmodulen müssen die zusätzliche wasserdichte Schiene zwischen den beiden wasserdichten Schienen unter dem Spalt zwischen den beiden Solarmodulen platziert werden



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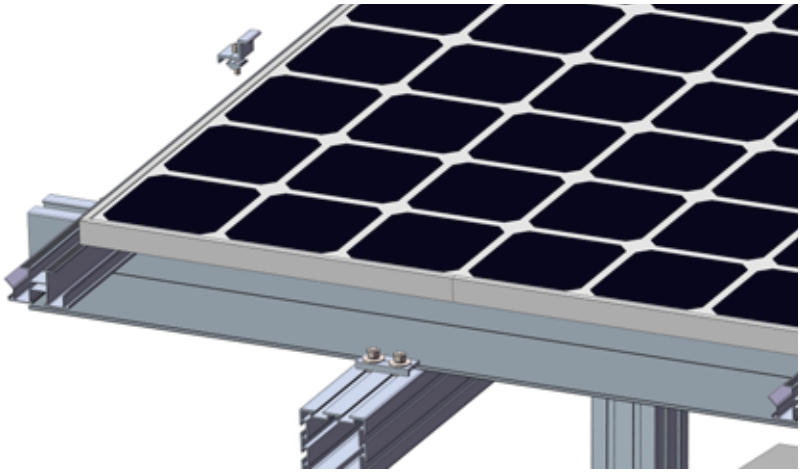
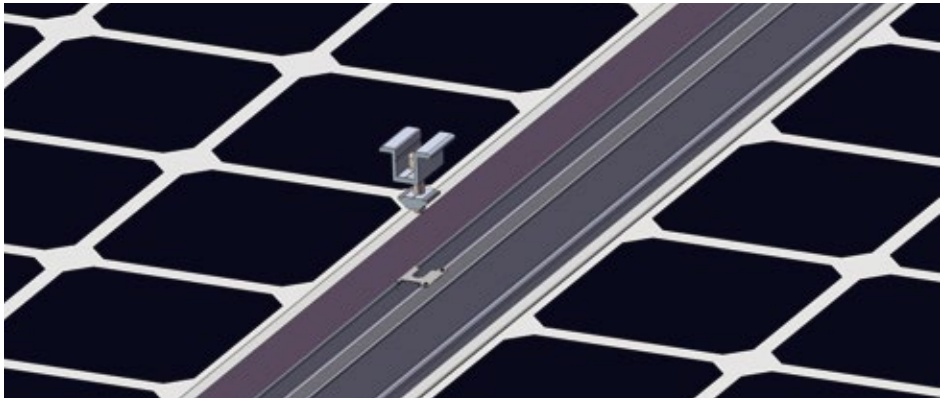
3.53 Install end clamps: Attach the end clamps by placing them into the rail gutter to secure the panel in place

3.53 Endklemme-Installation: Setzen Sie die Endklemme in die Nuten der Schienen ein, um das Solarmodulen zu fixieren



3.54 Install mid clamps: place the panels sequentially, attach the mid clamp between two panels. Make sure the conductive sheet is positioned beneath the mid clamp, and the panels are pressed against the conductive sheet

3.54 Mittelklemme-Installation: Platzieren Sie die Solarmodulen der Reihe nach und platzieren Sie die Mittelklemme zwischen den beiden Solarmodulen, legen Sie die Erdungsklammer unter die Mittelklemme und drücken Sie die Solarmodulen auf die Erdungsklammer



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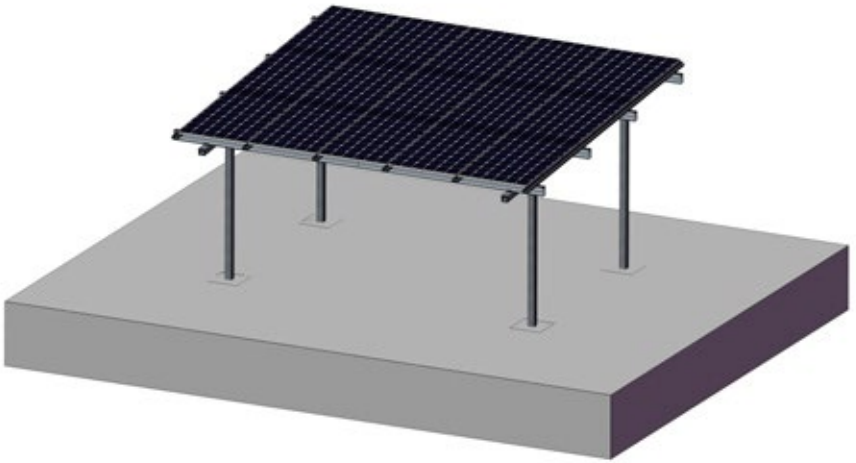
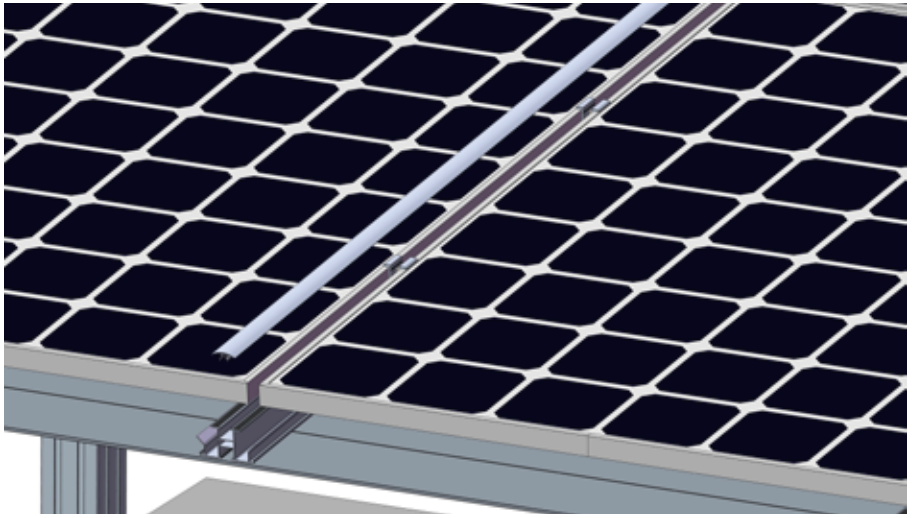
3.55 Repeat the above steps to complete the installation of solar panels

3.55 Wiederholen Sie die oben genannten Schritte, um die Installation aller Solarmodulen abzuschließen



3.56 Press and fit the mid clamp cover plate into the inner gutter of the mid clamp

3.56 Drücken Sie den Kappe der Mittelklemme in die Innennut der Mittelklemme und lassen Sie ihn einrasten



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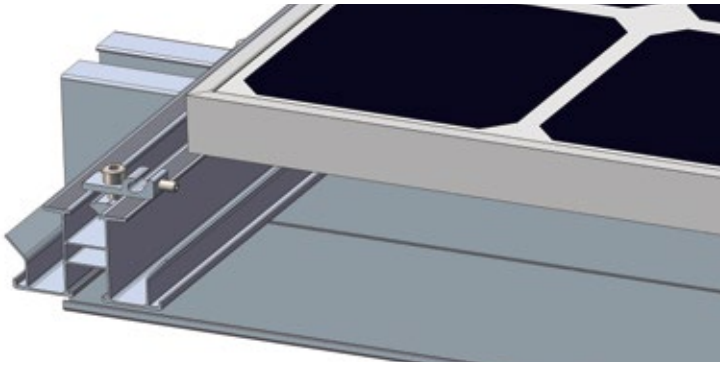
3.6 At the end of each row of guide rails, slide the grounding copper clamp into the water guide gutter to complete the installation of the grounding copper clamp

3.6 Schieben Sie am Ende jeder Führungsschienenreihe den Klemmblock in die wasserdichte Führungsschienennut, um die Installation der geerdeten Kupferdrahtklemme abzuschließen



3.7 Complete the installation of the end caps of rails

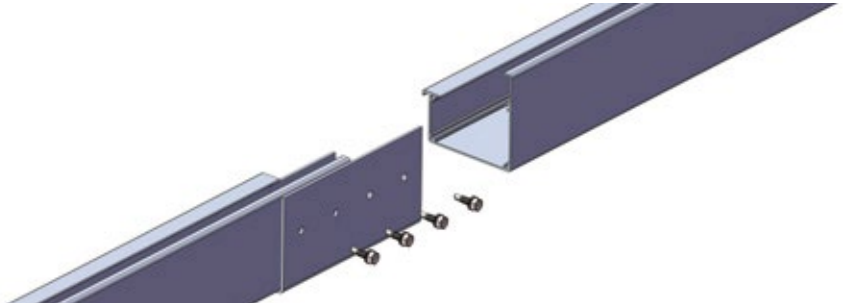
3.7 Schließen Sie die Montage der Endkappen der Querschienen ab

3.8 Install water guide gutter

3.8 Entwässerungsrinne zur Installation

3.81 The water guide gutter is fixed by connectors and self-tapping screws ST6.3, which need to be glued at the connectors and fastening points

3.81 Die Befestigung der Entwässerungsrinne erfolgt über den Entwässerungsrinne-Verbinder und selbstschneidende Schrauben st6.3. An den Verbindungs- und Befestigungspunkten ist eine Verklebung erforderlich



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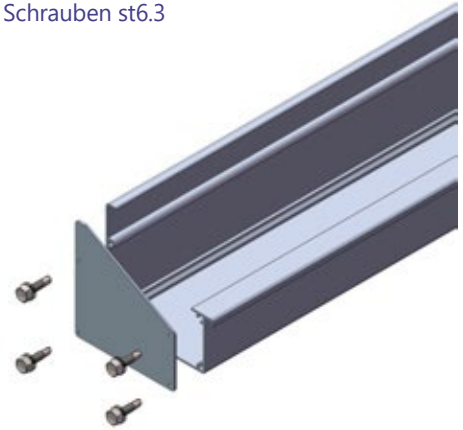
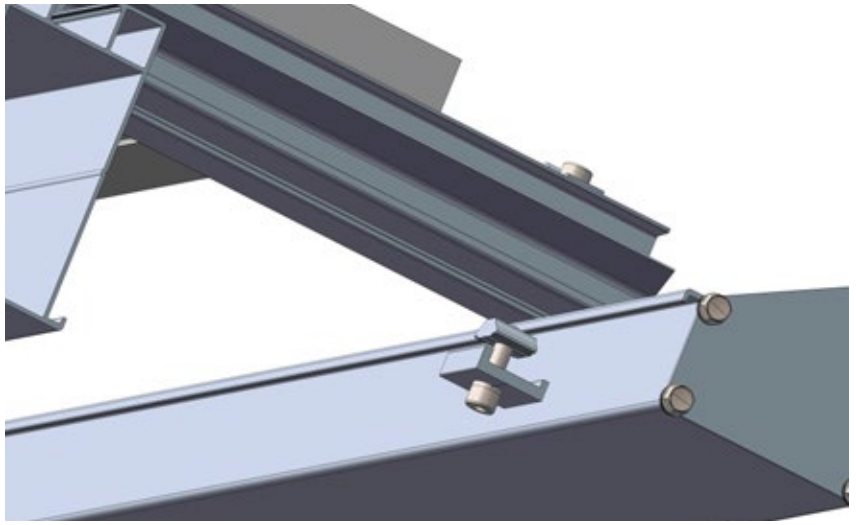
3.82 Fix the water guide cover plate by using self-tapping screws ST6.3 at both ends of the water guide gutter

3.82 Befestigen Sie die Entwässerungsrinne-Kappe an beiden Enden der Entwässerungsrinne mit selbstschneidenden Schrauben st6.3



3.83 Put rail clamp 2 into the bottom gutter of the waterproof rail, secure it, and repeat this process. Lock the bolt after fixing the water guide gutter

3.83 Platzieren Sie den Klemmblock der Schienenklemme 2 in der unteren Nut der wasserdichten Schiene, verriegeln Sie die Sschienenklemme, wiederholen Sie den Vorgang, sichern Sie den Entwässerungsrinne und ziehen Sie dann die Schrauben fest



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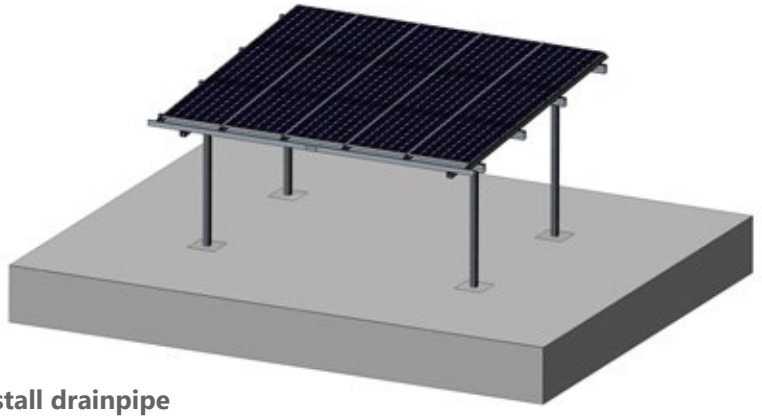
3.84 Complete the installation of water guide gutter

3.84 Schließen Sie die Installation der Entwässerungsrinne ab



3.9 Install drainpipe

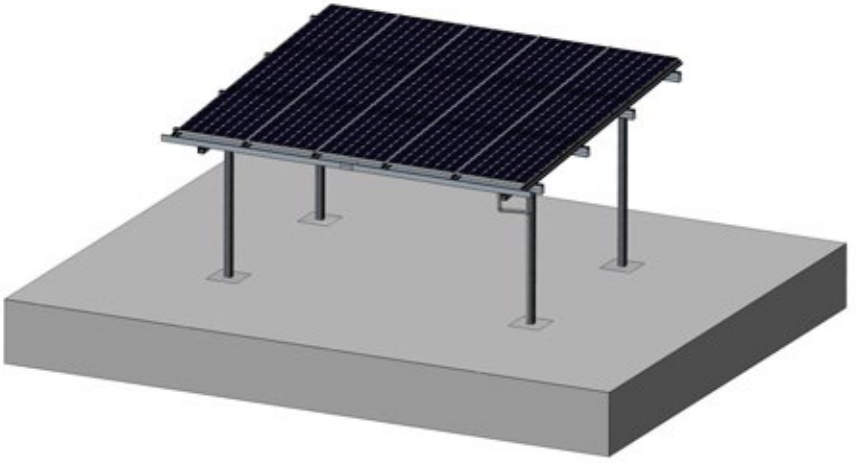
Note: The drainpipe is optional, please refer to the actual product received

3.9 Installation des Abwasserrohrs

Hinweis: Das Abflussrohr ist optional, bitte beachten Sie das tatsächlich erhaltene Produkt

3.91 Fix the drainpipe to the ground based on the site's actual conditions, passing it through the openings in the gutters as needed

3.91 Entsprechend der tatsächlichen Situation vor Ort wird das Entwässerungsrohr durch die Öffnung der Entwässerungsrinne am Boden angeschlossen und befestigt



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4. Completion

4. Die Installation ist abgeschlossen

Purchaser/End User/Installer Notice:

Purchasers should confirm whether they are able to install this product and obtain relevant permits in accordance with local laws and regulations, including but not limited to government, community, adjacent property owners, and property rights holders.

Purchasers should engage qualified installers, professionals, or self-install only where permitted by law.

Purchasers should also ensure that the installation supports the building or its accessories safely and meets installation requirements, and is sufficient to support the product and its photovoltaic power generation system for over 20 years.

Purchasers should not install or use this product in environments with corrosive air or water, such as acids or alkalis in the vicinity.

Purchasers should fully assess and bear the consequences of product installation and usage and their impact on the surroundings, including but not limited to potential lightning strikes, electrical or magnetic conduction, light reflection/pollution, obstruction of passage, collision with people, snow accumulation and ice shedding, depreciation of buildings, and their consequences.

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Purchasers are solely responsible for safety during installation, throughout the installation process, and subsequent usage, and/or any impact on third parties.

After installing the product, purchasers or their appointed installers should carry out waterproof, leak-proof, and anti-seepage construction at the junction of the product and the building to protect the building supporting the product, and conduct periodic inspections and maintenance in the future (at intervals not exceeding 1 year).

Purchasers should be aware that nothing other than the photovoltaic power generation system should be supported on this product, and no additional weight should be placed on the product during installation or subsequent usage, particularly human suspension or leaning. It should not be used for any purpose other than supporting photovoltaic brackets. Purchasers should be aware that nothing other than the photovoltaic power generation battery system should be supported on this product, and no additional weight should be placed on the product during installation or subsequent usage, particularly human suspension or leaning. It should not be used for any purpose other than supporting photovoltaic brackets.

We shall not be liable for any consequences resulting from failure to comply with local legal requirements and/or failure to follow instructions, warnings, etc., during the installation of this product, nor shall we be liable for any losses to the supporting building or any third party resulting from the installation process or subsequent usage, nor shall we be liable for any multiple installations, disassembly and reuse, or second-hand purchases of this product.

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INSTALLATION MANUEL

MANUALE DI INSTALLAZIONE

Système de Montage pour Carport Solaire V1.0

Sistema di montaggio per parcheggio fotovoltaico (L051) V1.0

1.Outils d'Installation
1.Strumenti per l'installazione

Clé Allen
(M8-M12)
Chiave esagonale interna
(M8-M12)

Mètre à Ruban
Metro a nastro

Clé à Molette
(M8-M12)
Chiave inglese regolabile

Perceuse à Main
Trapano elettrico

Clé à Cliquet
(M8-M12)
Chiave a cricchetto
(M8-M12)

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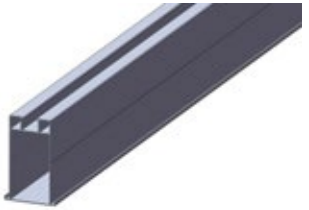
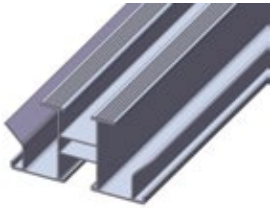
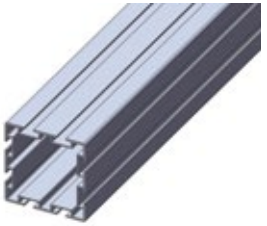
2. Détails des Pièces
2. Specifiche dei componenti



Rail horizontal
Binario trasversale



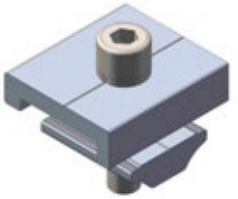
Rail étanche
Binario impermeabile



L051 Colonne
Pilastro

Coin en forme de U (5°)
Staffa angolare a U（5°）

Pince à rail (80mm)
Morsetto per binario（80mm）



Pince à rail 1
Morsetto 1 per binario

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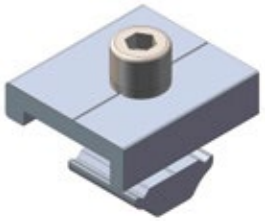

Pince à rail 2
Morsetto 2 per binario

Pince d'extrémité
Morsetto laterale

Pince centrale
Morsetto centrale

Base en L
Staffa angolare a L

Cache de pince centrale
Piastra di copertura

Rail auxiliaire étanche
Staffa impermeabile

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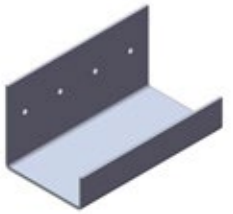
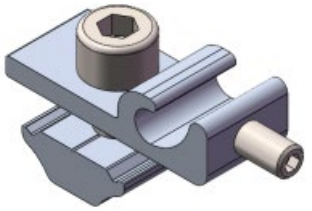
Aqueduc
Canalina di scolo

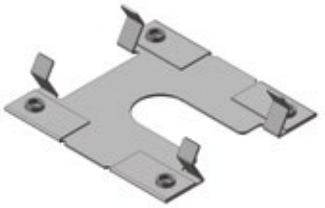


Connecteur d'aqueduc
Raccordo per canalina di scolo

Cache d'aqueduc
Copertura per canalina di scolo



Pince de masse
Morsetto per cavo di terra



Feuille conductrice
Lamelle conduttive

Connecteur de rail
Raccordo per binari

(Please continue reading the content on the back)

3. Étapes de Construction

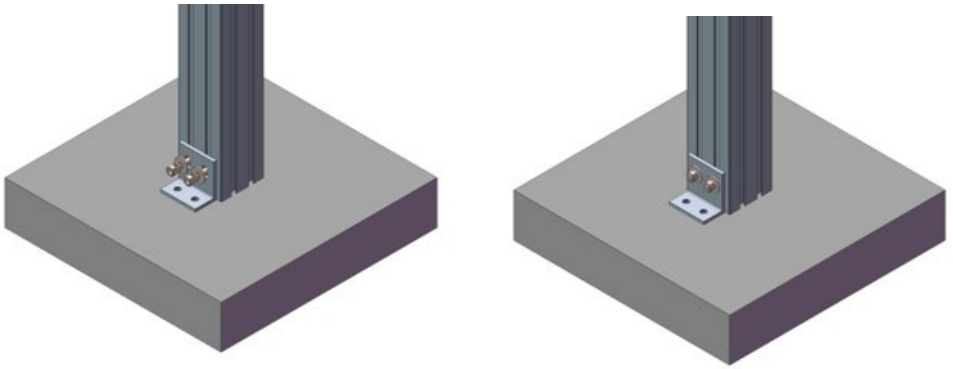
3. Fasi di costruzione

3.1 Installation de base en L et de colonnes

3.1 Installazione del pilastro e della staffa angolare a L

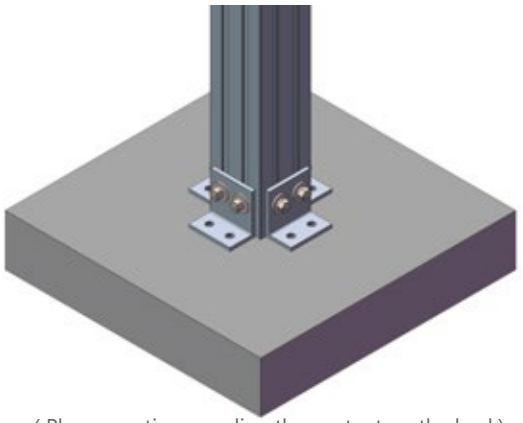
3.11 Posez d'abord les fondations en ciment, puis érigez la colonne selon le dessin et fixez la base en L à la colonne à l'aide de boulons en T

3.11 Realizzare la base di calcestruzzo e, in conformità al disegno, sollevare il pilastro. Fissare la staffa angolare a L al pilastro utilizzando i bulloni a forma di T



3.12 Répétez l'étape 3.11, Complétez l'installation de la base en L dans les quatre directions de la colonne

3.12 Ripetete il passaggio 3.11, su ciascuno dei quattro lati del pilastro per completare l'installazione



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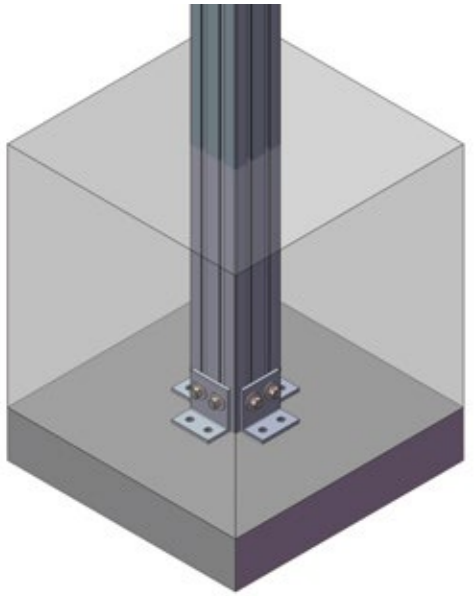
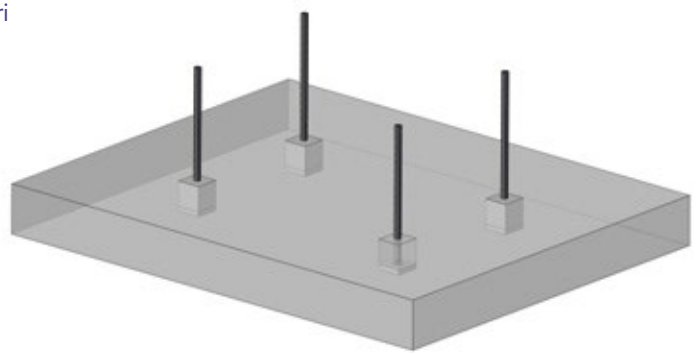
3.13 Versez la couche de ciment pour compléter la fondation en ciment. Enterrez ensuite les colonnes et les piliers en ciment sous terre

3.13 Versare il calcestruzzo e quindi seppellire la base del pilastro all'interno del calcestruzzo



3.14 Selon les dessins de conception, confirmez la distance entre les colonnes avant et arrière et répétez les opérations ci-dessus pour terminer l'installation des colonnes avant et arrière

3.14 Seguendo il disegno di progettazione, regolare la distanza tra i pilastri, dopodiché ripetere il passaggio precedente per completare l'installazione di tutti e quattro i pilastri



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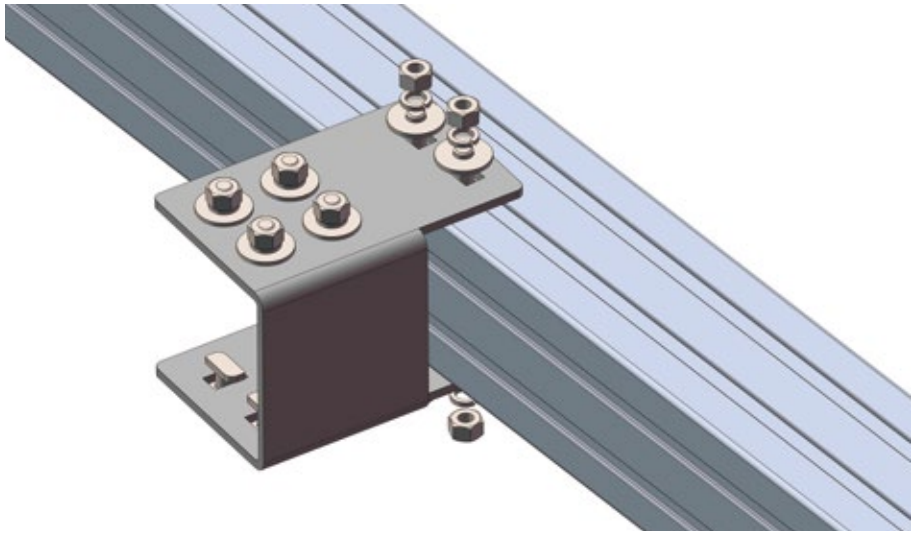
3.2 Pose de Poutre

3.2 Installazione della trave portante

3.21 Selon le dessin de conception, retirez la poutre et le connecteur en forme de U, puis fixez-le avec des boulons en forme de T

3.21 Seguendo il disegno di progettazione, fissare la trave portante e la staffa a U tramite bulloni a forma di T



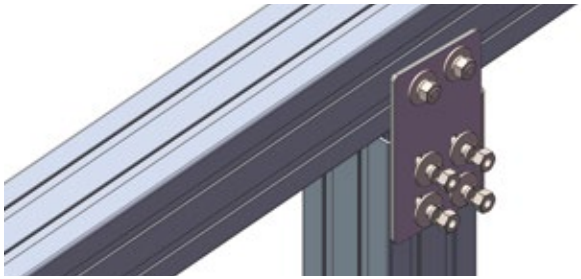
3.22 Répétez les étapes ci-dessus pour terminer l'installation de la poutre et du connecteur (pas encore verrouillés)

3.22 Ripetere i passaggi precedenti per completare l'installazione della trave e dei connettori (senza stringerli)

(Please continue reading the content on the back)

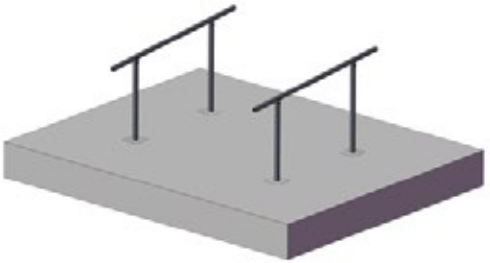
3.23 Connectez-vous à la colonne via des boulons en T des deux côtés du connecteur

3.23 La trave viene collegata ai pilastri grazie ai bulloni a T, posizionati ai suoi lati



3.24 Après avoir confirmé la distance entre les connecteurs avant et arrière, répétez les opérations ci-dessus, serrez les boulons et terminez l'installation de la poutre

3.24 Verificare le distanze tra i pilastri, poi ripetere le fasi precedenti e stringere i bulloni per completare l'installazione della trave portante

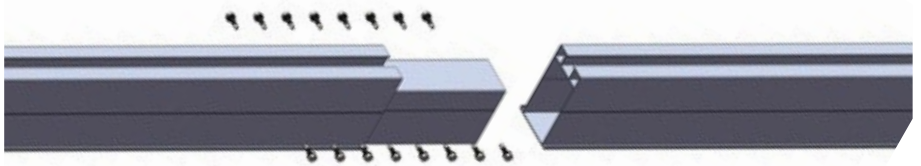


3.3 Installation de Rail Horizontal

3.3 Installazione del binario trasversale

3.31 Les rails horizontaux sont connectés via des connecteurs de rail de guidage et des vis autotaraudeuses ST6.3 enfoncées dans les rails de guidage

3.31 I binari trasversali vengono collegati insieme utilizzando il raccordo per binari e le viti autofilettanti ST6.3



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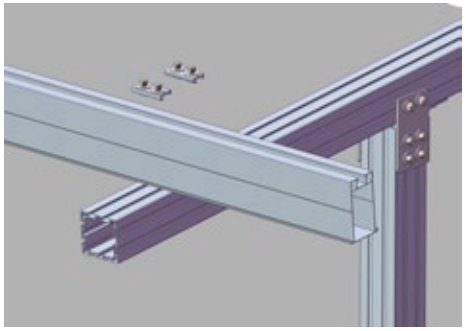
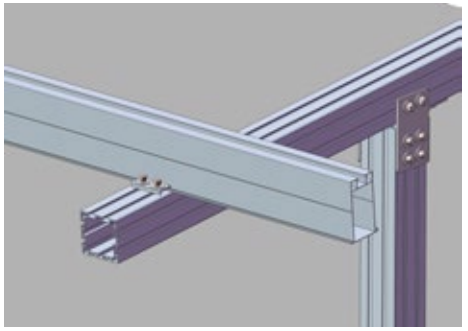
3.32 Placez le rail transversal sur la poutre longitudinale et fixez-le avec des colliers de serrage (80 mm) des deux côtés du rail de guidage

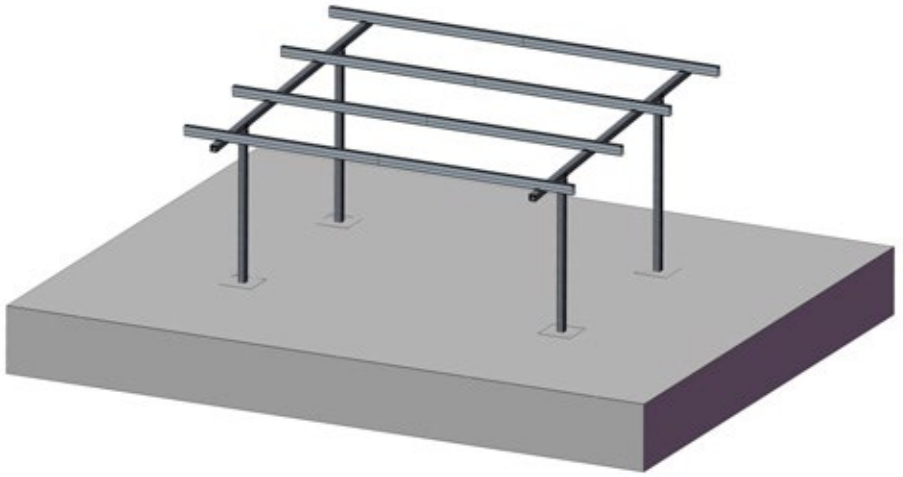
3.32 Posizionare il binario trasversale sulla trave portante e bloccarlo ai lati con i morsetti per binari (80mm)





3.33 Répétez les opérations ci-dessus pour terminer l'installation du rail horizontal

3.33 Ripetere i passaggi precedenti per completare l'installazione dei binari trasversali



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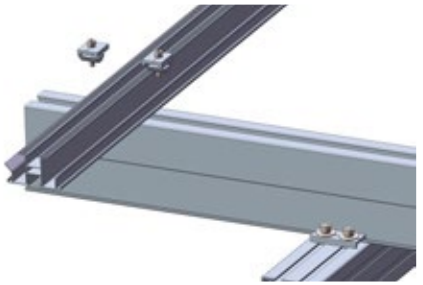
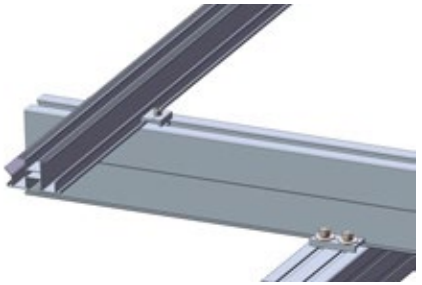
3.4 Installation de rail de guidage étanche

3.4 Installazione dei binari impermeabili

3.41 Selon le dessin de conception, placez le rail de guidage étanche sur le rail de guidage horizontal, puis enclenchez la pince 1 du rail de guidage dans la rainure de guidage horizontale. Et verrouillez un bloc de pression des deux côtés du rail de guidage étanche

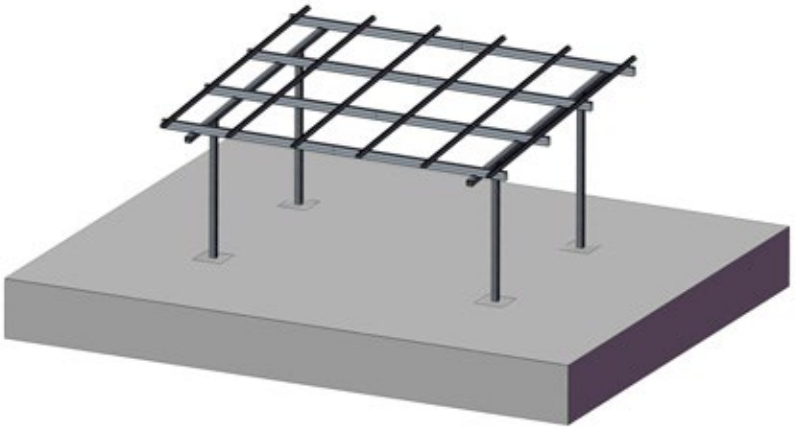
3.41 Seguendo il disegno, posizionare il binario impermeabile sopra il binario trasversale. Inserire i morsetti nella scanalatura del binario trasversale, fissarli uno a destra e uno a sinistra della guida impermeabile





3.42 Répétez les étapes ci-dessus pour terminer l'installation du rail de guidage étanche

3.42 Ripetere i passaggi precedenti per completare l'installazione della guida impermeabile



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3.5 Installation de panneaux solaires

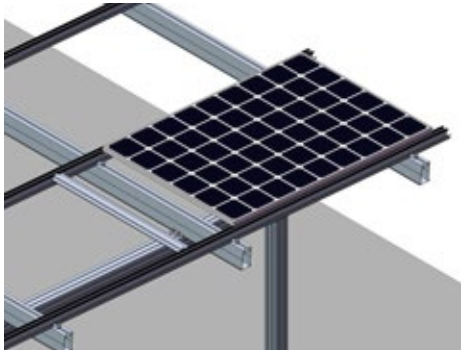
3.5 Installazione del pannello fotovoltaico

3.51 Placez les panneaux solaires sur les rails de guidage selon les dessins de conception

3.51 In base al disegno di progettazione, posizionare il pannello sopra i binari

3.52 Lors de la pose de panneaux solaires, le rail étanche auxiliaire doit être placé entre les deux rails étanches, sous l'espace entre les deux panneaux solaires

3.52 Durante l'installazione del pannello, inserire la staffa impermeabile tra le fessure dei due pannelli fotovoltaici



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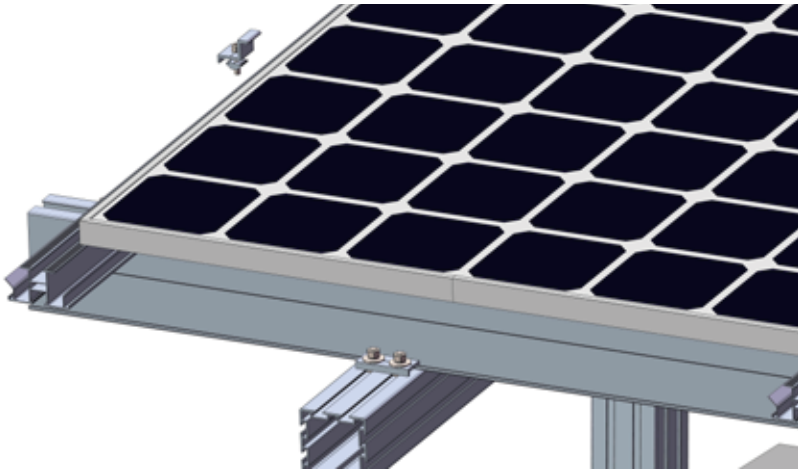
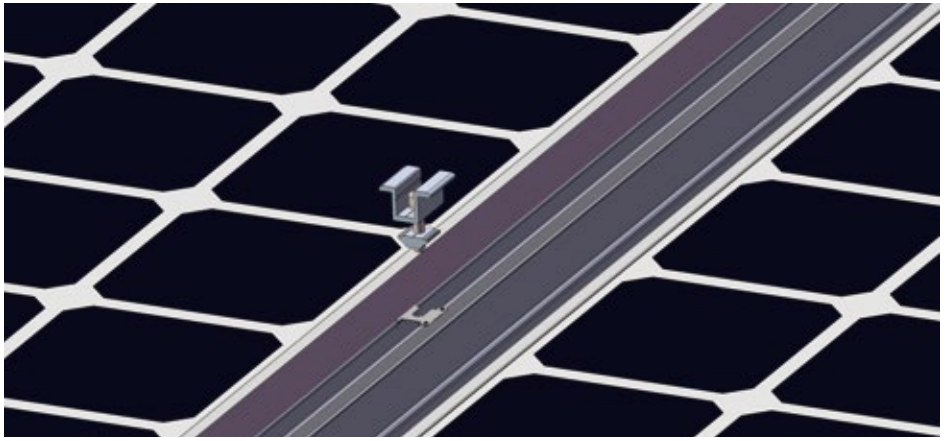
3.53 Installation de la pince d'extrémité : Placez la pince d'extrémité dans la rainure du rail pour fixer le panneau solaire

3.53 Installazione del morsetto laterale: posizionare il morsetto nella scanalatura del binario per bloccare il pannello



3.54 Installation de Pince centrale : Placer les panneaux solaires en séquence et placer la moyenne tension entre les deux panneaux solaires, placer la feuille conductrice sous la Pince centrale, et appuyer le panneau solaire sur la feuille conductrice

3.54 Installazione del morsetto centrale: posizionare i morsetti sopra le lamelle conduttive e sotto i pannelli fotovoltaici



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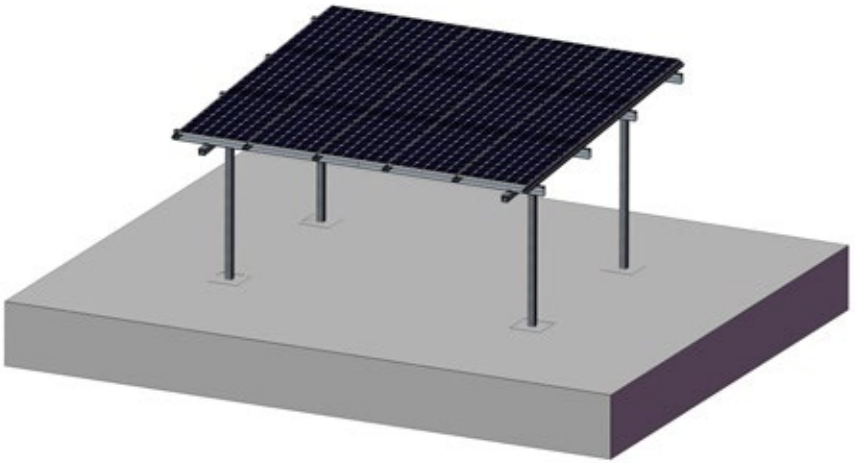
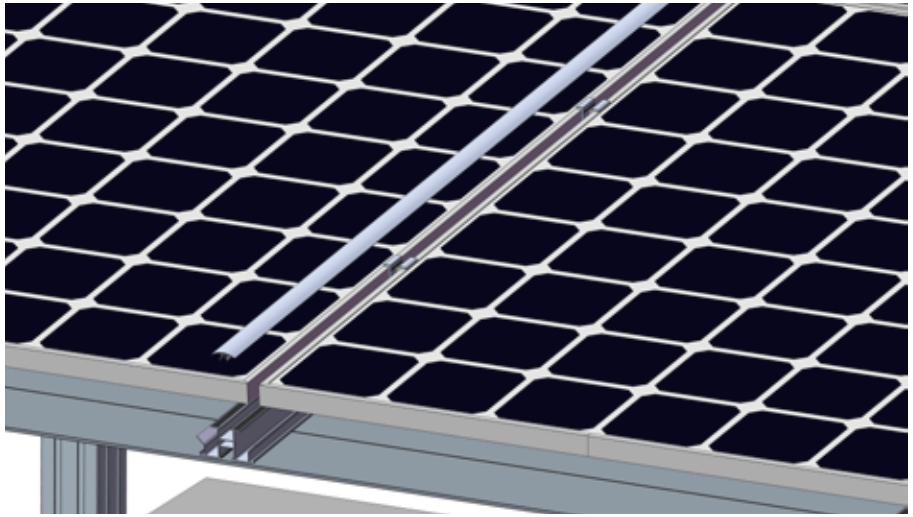
3.55 Répétez les étapes ci-dessus pour installer tous les panneaux solaires

3.55 Ripetere i passaggi precedenti per completare l'installazione di tutti i pannelli



3.56 Appuyez et enclenchez le couvercle de la pince centrale dans la rainure intérieure de la pince centrale

3.56 Inserire la piastra di copertura nella scanalatura tra i due pannelli



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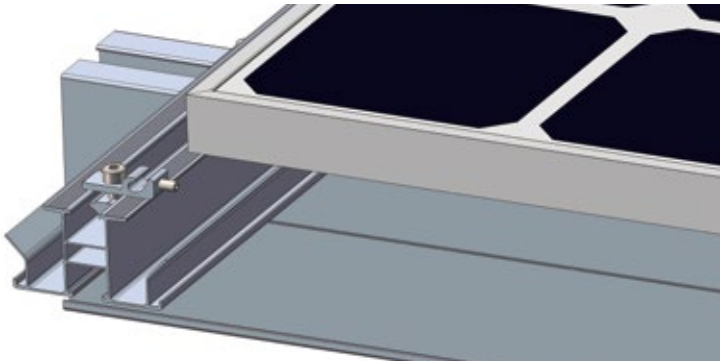
3.6 À l'extrémité de chaque rangée de rails de guidage, faites glisser le bloc de serrage dans la rainure étanche du rail de guidage pour terminer l'installation du clip en fil de cuivre mis à la terre

3.6 All'estremità di ciascun binario, far scorrere il morsetto nella scanala tura del binario stesso, per completare l'installazione del morsetto in rame di messa a terra



3.7 Installez les embouts du rail transversal. L'installation est terminée

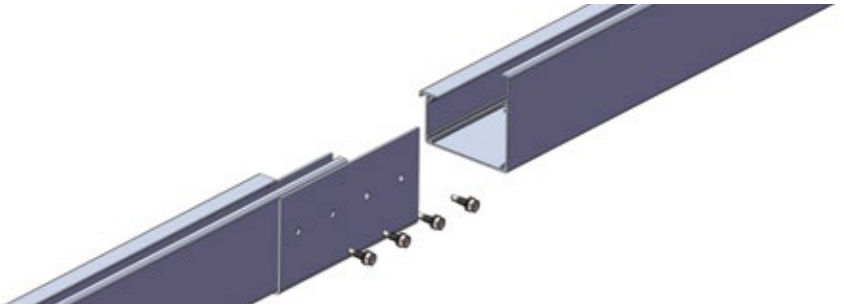
3.7 Completare l'installazione inserendo il tappo terminale del binario

3.8 Installation de l'auge de guidage

3.8 Installazione della canalina di scolo

3.81 La fixation de la gouttière se fait à l'aide du connecteur de gouttière et des vis autotaraudeuses ST6.3. Un collage est nécessaire aux points de connexion et de fixation

3.81 Due canaline di scolo vengono fissate tramite raccordi e viti autofilettanti ST6.3, è importante aggiungere una sigillatura di colla nelle zone di connessione dei pezzi



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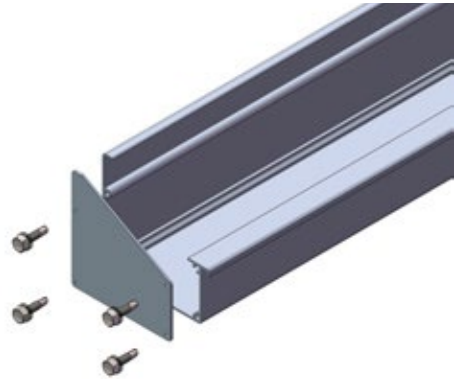
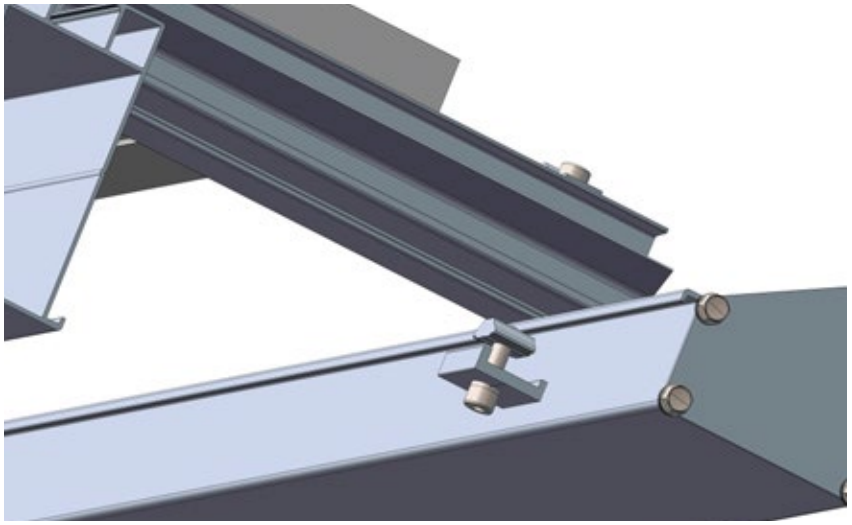
3.82 Fixez le couvercle de gouttière aux deux extrémités de la gouttière avec des vis autotaraudeuses st6.3

3.82 Utilizzare viti autofilettanti ST6.3 per fissare le coperture alle due estremità del canale di scolo



3.83 Placez le bloc de serrage du bloc de pression du rail de guidage 2 dans la rainure inférieure du rail de guidage étanche, verrouillez le bloc de pression du rail de guidage, répétez l'opération et serrez le boulon après avoir fixé le canal de guidage

3.83 Posizionare il morsetto 2 nella scanalatura inferiore del binario impermeabile, stringere il morsetto, ripetere i passaggi precedenti per fissare il canale di scolo e poi serrare i bulloni



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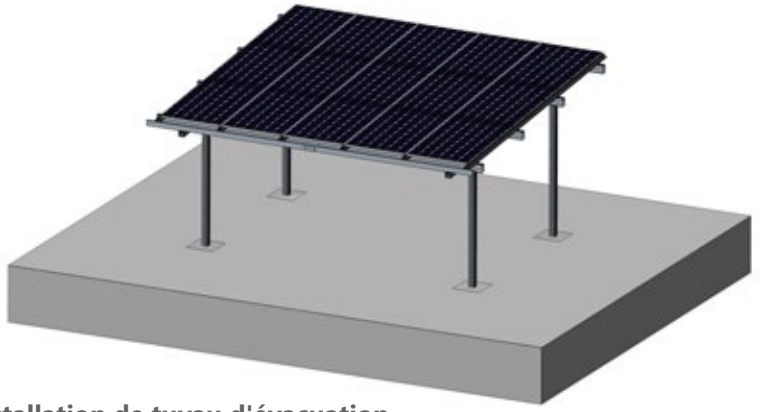
3.84 Terminer l'installation de la gouttière

3.84 Completare l'installazione del canale di scolo



3.9 Installation de tuyau d'évacuation

Remarque : le tuyau de drainage est facultatif, veuillez vous référer au produit réel reçu

3.9 Installazione del tubo di scolo per l'acqua piovana

Nota: il tubo di scarico è opzionale, fare riferimento al prodotto effettivamente ricevuto

3.91 Selon la situation réelle sur place, raccordez et fixez le tuyau de drainage au sol à travers l'ouverture du canal de guidage

3.91 In base alle condizioni circostanti, collegare il tubo di scolo al terreno attraverso un foro nel canale di scolo

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4. L'installation est terminée

4. Installazione completata

Purchaser/End User/Installer Notice:

Purchasers should confirm whether they are able to install this product and obtain relevant permits in accordance with local laws and regulations, including but not limited to government, community, adjacent property owners, and property rights holders.

Purchasers should engage qualified installers, professionals, or self-install only where permitted by law.

Purchasers should also ensure that the installation supports the building or its accessories safely and meets installation requirements, and is sufficient to support the product and its photovoltaic power generation system for over 20 years.

Purchasers should not install or use this product in environments with corrosive air or water, such as acids or alkalis in the vicinity.

Purchasers should fully assess and bear the consequences of product installation and usage and their impact on the surroundings, including but not limited to potential lightning strikes, electrical or magnetic conduction, light reflection/pollution, obstruction of passage, collision with people, snow accumulation and ice shedding, depreciation of buildings, and their consequences.

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Purchasers are solely responsible for safety during installation, throughout the installation process, and subsequent usage, and/or any impact on third parties.

After installing the product, purchasers or their appointed installers should carry out waterproof, leak-proof, and anti-seepage construction at the junction of the product and the building to protect the building supporting the product, and conduct periodic inspections and maintenance in the future (at intervals not exceeding 1 year).

Purchasers should be aware that nothing other than the photovoltaic power generation system should be supported on this product, and no additional weight should be placed on the product during installation or subsequent usage, particularly human suspension or leaning. It should not be used for any purpose other than supporting photovoltaic brackets. Purchasers should be aware that nothing other than the photovoltaic power generation battery system should be supported on this product, and no additional weight should be placed on the product during installation or subsequent usage, particularly human suspension or leaning. It should not be used for any purpose other than supporting photovoltaic brackets.

We shall not be liable for any consequences resulting from failure to comply with local legal requirements and/or failure to follow instructions, warnings, etc., during the installation of this product, nor shall we be liable for any losses to the supporting building or any third party resulting from the installation process or subsequent usage, nor shall we be liable for any multiple installations, disassembly and reuse, or second-hand purchases of this product.