

INSTALLATION MANUAL **INSTALLATIONSANLEITUNG**

R95&HA-1001 to pitch roof
R095&HA-1001 mit Haken

1.Tools

1.Werkzeuge



Allen wrench
(M8-M12)
Innensechskantschlüssel
(M8-M12)



Tape Measure
Bandmaß



Twist Wrench
(M8-M12)
Schraubenschlüssel
(M8-M12)



Wood Hammer
Holzhammer



Electric Screw Machine
Elektrische Schraubenmaschine



Wrench
(M8-M12)
Schlüssel
(M8-M12)



Rope
Seil



Electric Rotor
Innensechskant Nuss Satz



Awning Turned
Bohrer

2.Components List

2.Komponentenliste



Rail
Schiene
(R095)



Rail Splice
Schienenverbindung
(SR-0087)



Mid Clamp
Mittelklemme
(CM-0163)



Hook
Haken
(HA-1001)



Rail Cap(L/R)
Schienenkappe
(DG-0056)



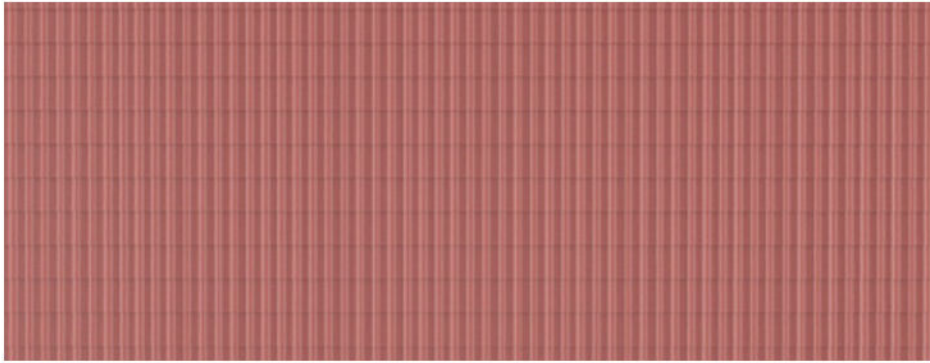
Screw
Schrauben
(FA-0985)

3. Installation Step

3. Installationsschritt

3.1 Measuring the spacing of wooden beams under a tiled roof

3.1 Messung des Abstandes von Holzbalken unter einem Ziegeldach

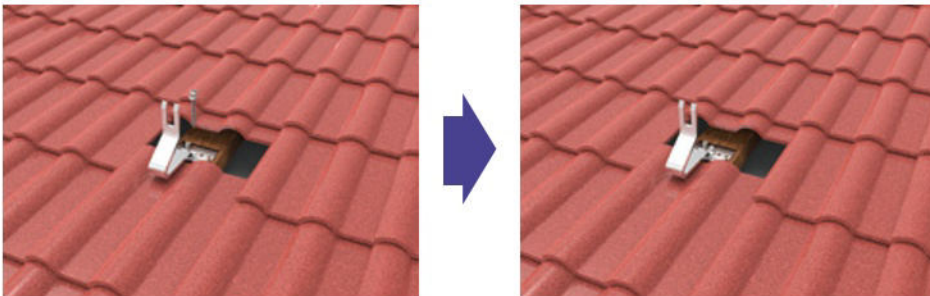


3.2 Hook Installation

3.2 Hakeninstallation

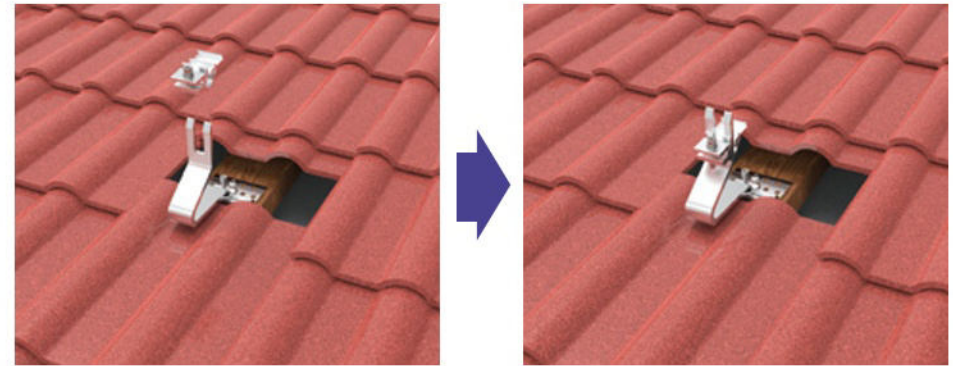
3.2.1 Lift the roof tiles, adjust the hook position so that it does not interfere with the tiles, and then drive in the wood screws (FA-0985). If you need to adjust the position of the base and the hook, loosen the bolts on the hook and adjust it left/right/up/down.

3.2.1 Heben Sie die Dachziegel an, passen Sie die Hakenposition so an, dass sie die Ziegel nicht behindert, und schrauben Sie dann die Holzschrauben (FA-0985) ein. Wenn Sie die Position der Basis und des Hakens anpassen müssen, lösen Sie die Schrauben am Haken und passen Sie ihn nach links/rechts/oben/unten an.



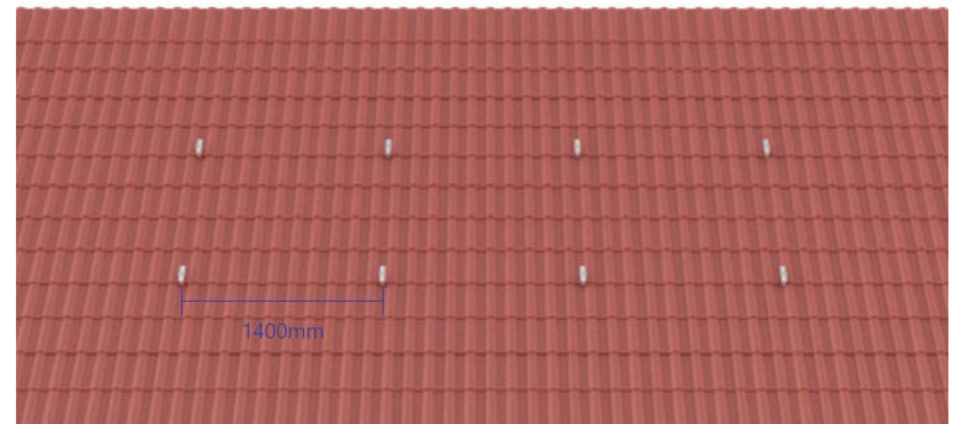
3.2.2 Place the guide rail seat groove and fixing block assembly (HA-0921) on the hook.

3.2.2 Platzieren Sie die Führungsschienensitznut und die Befestigungsblockbaugruppe (HA-0921) am Haken.



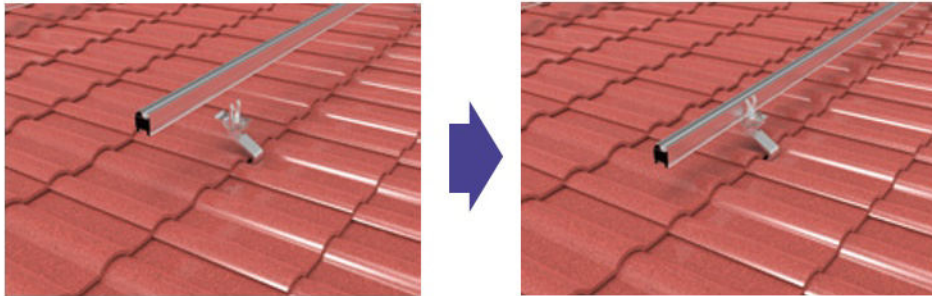
3.2.3 Drive wood screws in sequence according to the spacing between wooden beams to complete the installation of the hooks.

3.2.3 Drehen Sie die Holzschrauben der Reihe nach entsprechend dem Abstand zwischen den Holzbalken ein, um die Montage der Haken abzuschließen.



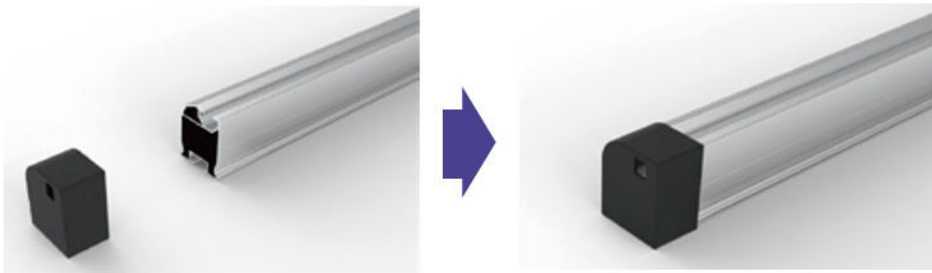
3.3 Insert the Rail R095 into the rail seat groove, adjust the height position, lock the fixing blocks at both ends, and lock the rail.

3.3 Setzen Sie die Schiene R095 in die Schienensitznut ein, stellen Sie die Höhenposition ein, verriegeln Sie die Befestigungsblöcke an beiden Enden und verriegeln Sie die Schiene.



3.4 Install Railing Cap.

3.4 Schienenkappe installieren.

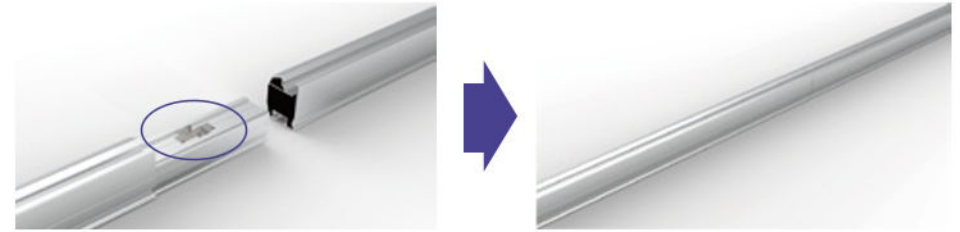


If the length is not enough, using rail splice to connect.

Reicht die Länge nicht aus, können die Verbindung mittels Schienenverbinder erfolgen.

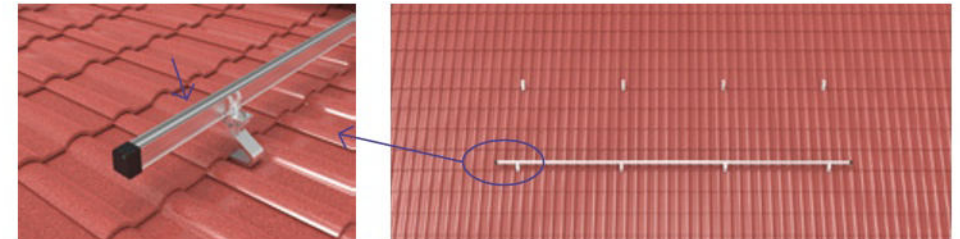
Note: Connect and fix through the block on the connector and the slot of the track

Hinweis: Verbinden und befestigen Sie den Block am Verbinder und am Schlitz der Schiene.



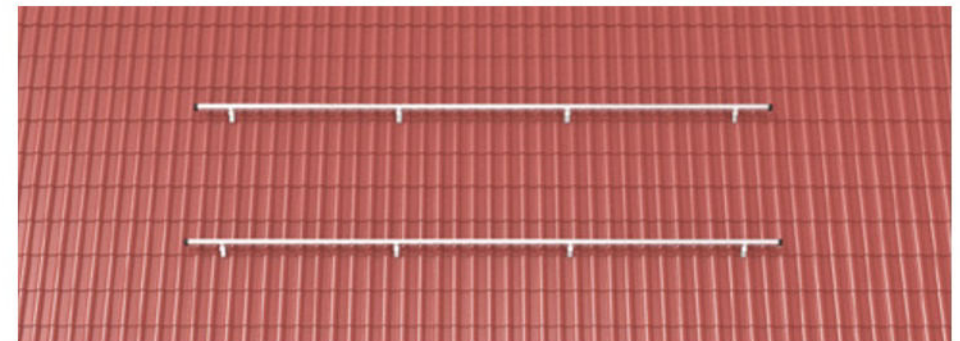
3.5 Slide the rail connector into the rail and lock it with the shrapnel on the rail connector so that it cannot be easily pulled out.

3.5 Schieben Sie den Führungsschienenverbinder in die Führungsschiene und verriegeln Sie ihn mit der Federlasche am Führungsschienenverbinder, um ein leichtes Herausziehen zu verhindern.



Completed railing installation

Abgeschlossene Installation

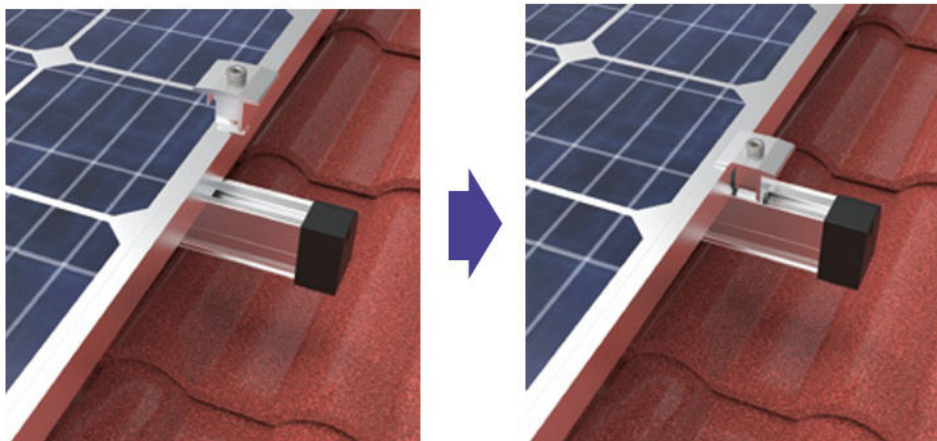


3.6 Installation of solar panels. 3.6 Installation von Solarmodulen.

3.6.1 Installation of the End clamp (CM-0163) on the side of the panel
3.6.1 Installieren Sie die Endklemme (CM-0163) auf der Seite des Solarmoduls

Step1: Directly press the End clamp into the railing.
Schritt1: Drücken Sie die Endklemme direkt in die Schiene.

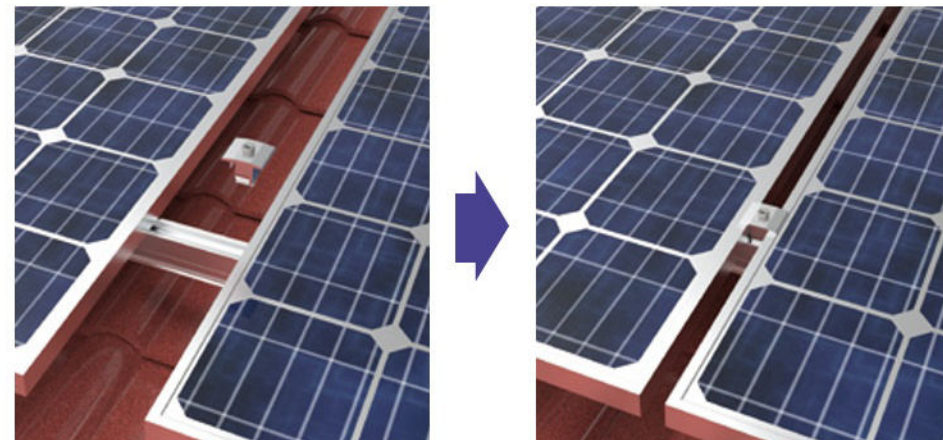
Step2: Tightening the bolt of middle clamp.
Schritt2: Festziehen der Schraube der Mittelklemme.



3.6.2 Installation of mid clamp(CM-0163) between panels
3.6.2 Installation der Mittelklemme (CM-0163) zwischen Solarmodulen

Step1: Directly press the End clamp into the railing, and put the 2nd panel
Schritt1: Drücken Sie die Endklemme direkt in die Schiene und legen Sie das 2. Solarmodul ein.

Step2: Tightening the bolt of mid clamp.
Schritt2: Festziehen der Schraube der Mittelklemme.



3.6.3 Repeat the above steps to complete the installation of the clamp.
3.6.3 Wiederholen Sie die obigen Schritte, um die Installation der Klemme abzuschließen.

Completed
Abgeschlossene Installation



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.

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.