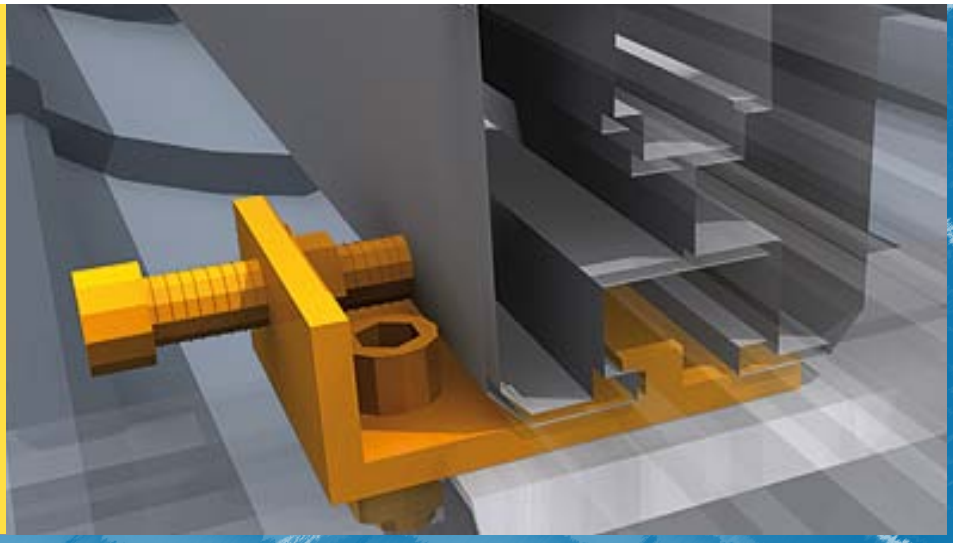
Solar Competence



# ALUMERO Metal Components
# Assembly Instruction
# for Solar Mounting System DT-1

ALUMERO

Systematic Solutions

*ALUMERO GROUP*

# Your big advantage!

+ In-house consulting and design office
+ Qualified, reliable workforce
+ Aluminium surface-mount and customer-designed special profiles
+ Professional machining
+ Complete production and packaging from one source
+ Mounting technology for stand-alone and roof-mounted systems
+ Clamping technologies, laminate and module clamp solutions
+ Individual solutions from planning to the finished product
+ Short response times, quick and flexible processing
+ On-schedule flexible delivery and logistic concepts

## Under-roof installation

### 1 ) Plain tile covered roof

Remove the plain tiles above the rafter on which the roof hook is intended to be installed.

Fasten the hook onto the rafter above the roof strip using screws. Ensure that the suitable flat piece of metal is placed between the tile and the hook being installed.

Cut the plain tiles so that they fit together after being laid again.

Close the roof by laying the plain tiles removed earlier.

### 2 ) Slate / shingle covered roof

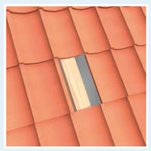
Remove the shingles from the place where the roof hook is intended to be fixed to a wooden panel.

Place the hook on the wooden panel.

Tighten the screws.

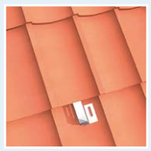
Cover the roof with the shingles removed earlier.

### 3 ) Tile roof


Remove the tiles above the rafter on which the roof hook is intended to be installed.

Place the hook on the rafter and fasten it with screws.

Tighten the screws.


Fit the tile by cutting it appropriately. Close the roof by installing the tile removed earlier.



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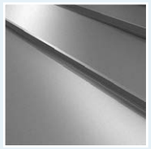
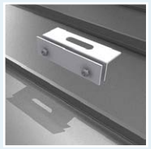
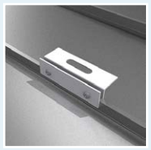
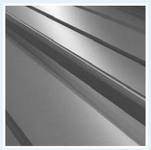
### 4 ) Lap-joint sheet covered roof

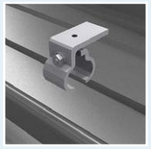

Before fastening the clip to the flat sheet, determine the place on the roof where it should be fastened.

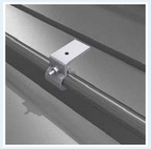

Loosen the clip and put it in the chosen place.


Tighten the screws.

### 5 ) Kalzip roof


Before fastening the Kalzip clip, determine the place on the roof where it should be fastened.


Loosen the clip and put it in the chosen place.


Tighten the screws.

### 6 ) Felt covered roof

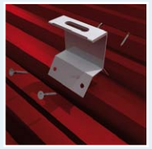
Before fastening the double-thread screw, determine the place where it should be fastened (rafter or purlin).

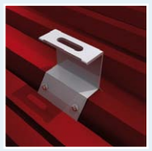
Insert the previously assembled double-thread screw.

Tighten the screws and nuts.

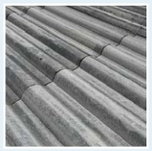
### 7 ) Troughed sheet covered roof

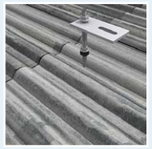
Before fastening the troughed sheet support, determine the place on the roof where it should be fastened.


Place the support on the troughed sheet and fasten it with screws.


Tighten the screws (Art. 800644), taking care not to strip them.

### 8 ) Corrugated sheet roof

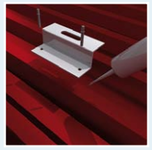

Before fastening the double-thread screw, determine the place where it should be fastened (rafter or purlin).

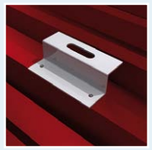

Drill a hole in the corrugated sheet and place the previously assembled double-thread screw inside.

Tighten the screws and nuts.

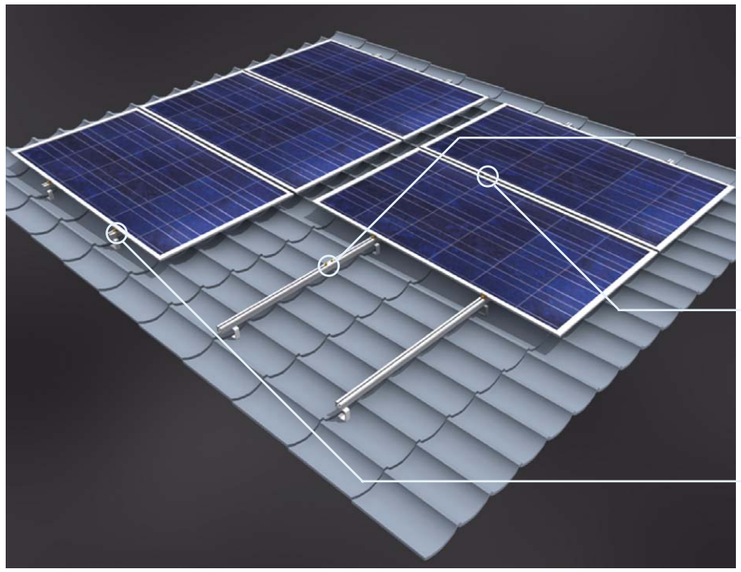
### 9 ) Troughed sheet covered roof (universal)

Before fastening the universal troughed sheet support, determine the place where it should be fastened.

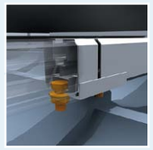

Place the universal support on the sheet using sealing compound (Art. 800700).


Fasten the universal support using rivets (Art. 800651).

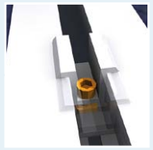
# Single-layer installation



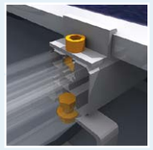
## 1 ) Modules in frame



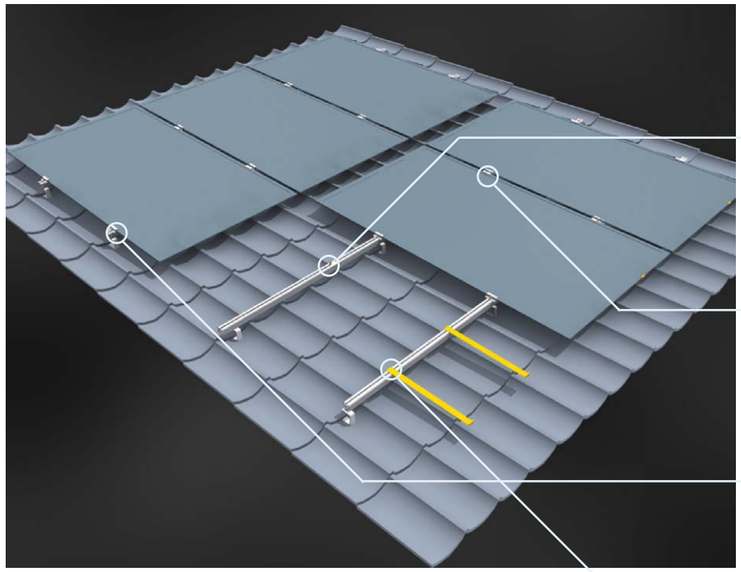
Load-bearing profile (Art. 800101-800112)
Profile fastener (Art. 800151-800154)
Hexagonal bolt (Art. 800622)
M10 hexagonal nut with locking teeth (Art. 800634)



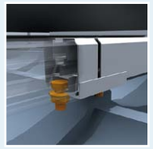
Middle clamp (Art. 800301-800303)
Allen key bolt depending on module height (Art. 800602-800605)
Square nut (Art. 800631)
Washer (Art. 800632)



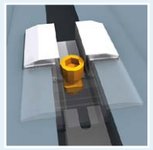
End clamp (Art. 800304-800306)
Allen key bolt (Art. 800603)
Square nut (Art. 800631)
Washer (Art. 800632)
Roof hook (Art. 800401-800425)
Load-bearing profile (Art. 800101-800112)
Hexagonal bolt (Art. 800622)
M10 hexagonal nut with locking teeth (Art. 800634)



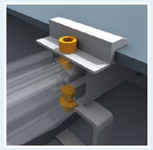
## 2 ) Modules without frame



Load-bearing profile (Art. 800101-800112)
Profile fastener (Art. 800151-800154)
Hexagonal bolt (Art. 800622)
M10 hexagonal nut with locking teeth (Art. 800634)



Central clamp (Art. 800311, 800321)
Allen key bolt (Art. 800602)
Square nut (Art. 800631)
Washer (Art. 800632)

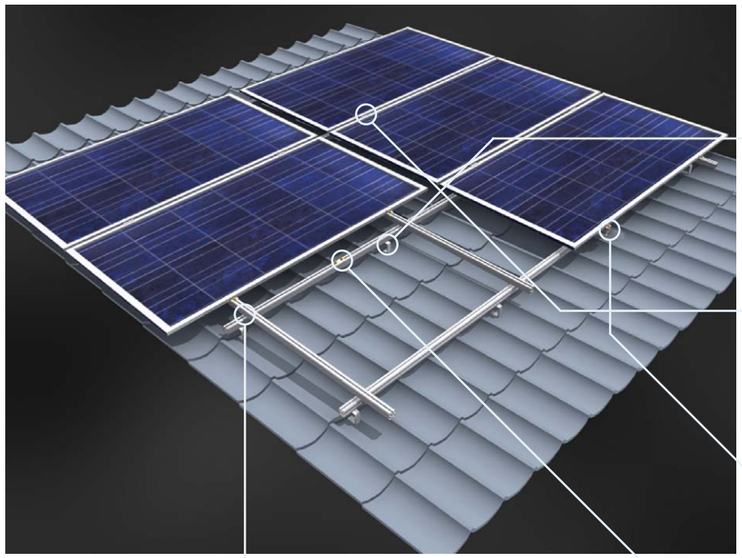


End clamp (Art. 800304-800306)
Allen key bolt (Art. 800603)
Square nut (Art. 800631)
Washer (Art. 800632)
Roof hook (Art. 800401-800425)
Load-bearing profile (Art. 800101-800112)
Hexagonal bolt (Art. 800622)
M10 hexagonal nut with locking teeth (Art. 800634)

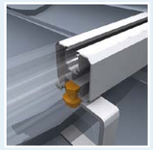
Load-bearing profile (Art. 800101-800112)
Safety hook (Art. 800351-800353)



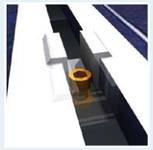
# Double-layer installation



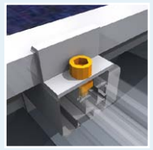
## 1 ) Modules in frame



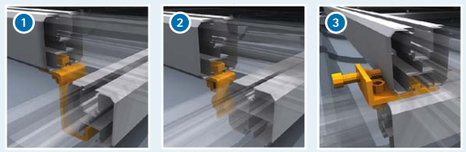
Load-bearing profile (Art. 800101-800112)
Roof hook (Art. 800401-800421)
Hexagonal bolt (Art. 800622)
M10 hexagonal nut with locking teeth (Art. 800634)



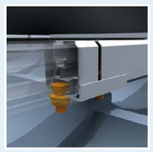
Middle clamp (Art. 800301-800303)
Allen key bolt depending on module height (Art. 800602-800605)
Square nut (Art. 800631)
Washer (Art. 800632)



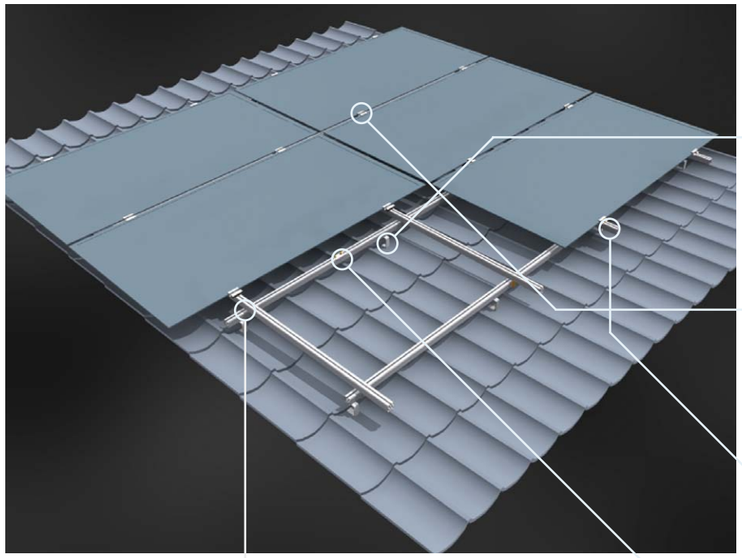
End clamp (Art. 800304-800306)
Allen key bolt (Art. 800603)
Square nut (Art. 800631)
Washer (Art. 800632)



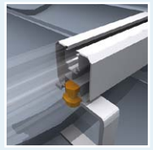

Cross joint installation
1. Cross joint (Artikel 800201, 800202)
2. Cross joint (Artikel 800203, 800204)
3. Cross joint (Artikel 800206)



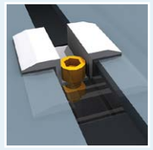
Load-bearing profile (Art. 800101-800112)
Profile fastener (Art. 800151-800154)
Hexagonal bolt (Art. 800622)
M10 hexagonal nut with locking teeth (Art. 800634)



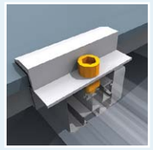
## 2 ) Modules without frame



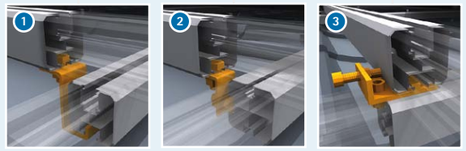
Load-bearing profile (Art. 800101-800112)
Roof hook (Art. 800401-800421)
Hexagonal bolt (Art. 800621-800626)
M10 hexagonal nut with locking teeth (Art. 800634)



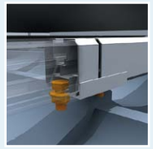
Central clamp (Art. 800311, 800321)
Allen key bolt (Art. 800602)
Square nut (Art. 800631)
Washer (Art. 800632)



End clamp (Art. 800312, 800322)
Allen key bolt (Art. 800602)
Square nut (Art. 800631)
Washer (Art. 800632)

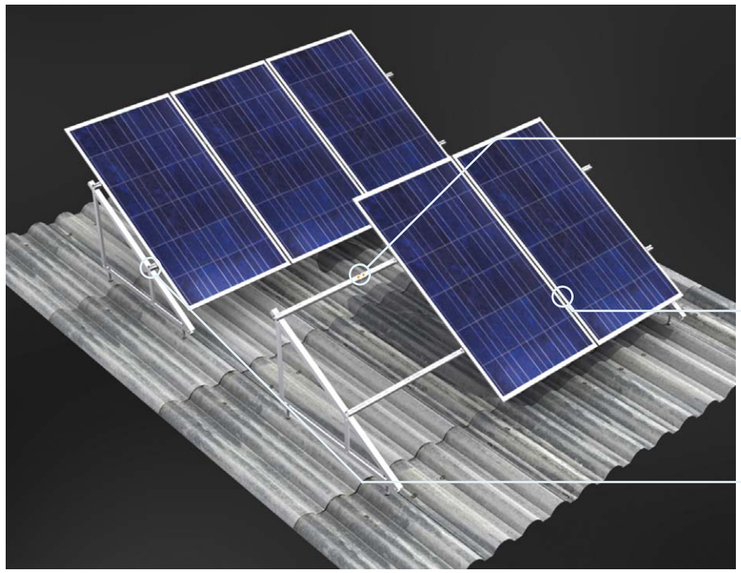



Cross joint installation
1. Cross joint (Artikel 800201, 800202)
2. Cross joint (Artikel 800203, 800204)
3. Cross joint (Artikel 800206)

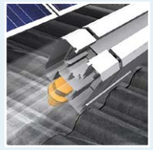


Load-bearing profile (Art. 800101-800112)
Profile fastener (Art. 800151-800154)
Hexagonal bolt (Art. 800622)
M10 hexagonal nut with locking teeth (Art. 800634)

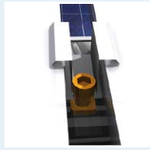
# Single-layer framed elevation



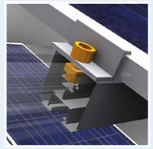
## 1 ) Installation parallel to the eaves



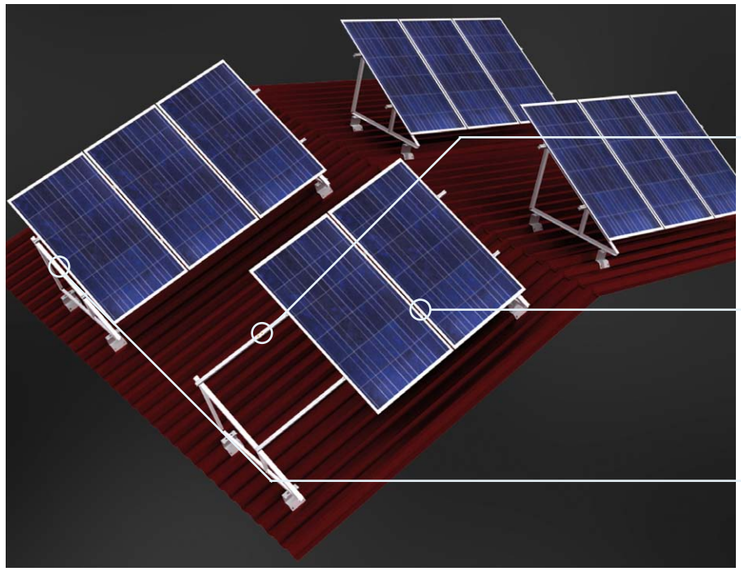
Carrier profile (Art. 800101-800112)
Profile connector (Art. 800151-800154)
Hexagon bolt (Art. 800622)
M10 hexagon nut with locking toothing
(Art. 800634)



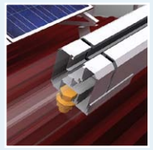
Middle clamp (Art. 800301-800303)
Socket screw, depending on module height
(Art. 800602-800605)
Square nut (Art. 800631)
Washer (Art. 800632)



End clamp (Art. 800304-800306)
Socket screw (Art. 800603)
Square nut (Art. 800631)
Washer (Art. 800632)

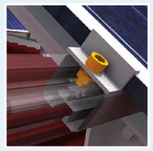


## 2 ) Installation parallel to the gable



Carrier profile (Art. 800101-800112)
Profile connector (Art. 800151-800154)
Hexagon bolt (Art. 800622)
M10 hexagon nut with locking toothing (Art. 800634)

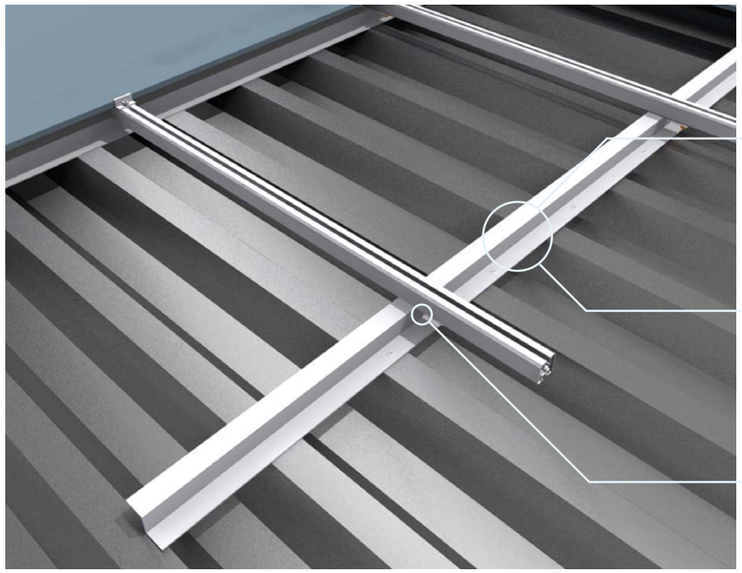
Middle clamp (Art. 800301-800303)
Socket screw, depending on module height
(Art. 800602-800605)
Square nut (Art. 800631)
Washer (Art. 800632)



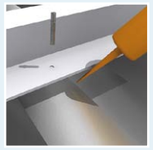
End clamp (Art. 800304-800306)
Socket screw (Art. 800603)
Square nut (Art. 800631)
Washer (Art. 800632)



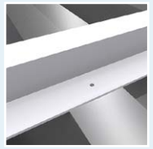
# Special installation



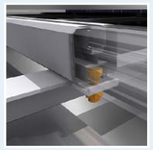
## 1 ) Installation using Z-section



Z-section (Art. 800131)
Sealing compound (Art. 800700)
Flat head blind rivet (Art. 800652)



Z-section (Art. 800131)
Flat head blind rivet (Art. 800652)



Load-bearing profile (Art. 800101-800102)
Z-shaped cross joint (Art. 800205)
Hexagonal bolt M10 × 20 (Art. 800622)
M10 hexagonal nut with locking teeth (Art. 800634)

All product images contained in these installation instructions serve as examples only and are not true to scale.
Subject to changes and errors.

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