The FlatFix installation guide for flat roofs

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Patent pending

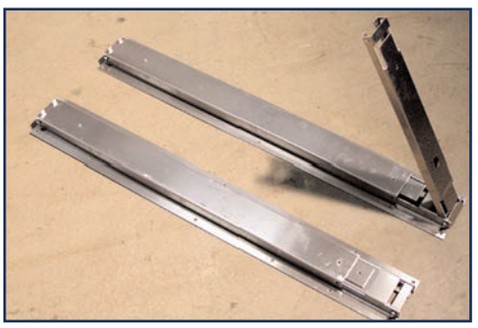
Material

A FlatFix assembly set contains the following items:

1 FlatFix support
2 two nylon sleeves
3 M6 stainless steel bolt en nut
4 end clamps with bolt
5 middle clamps with bolt

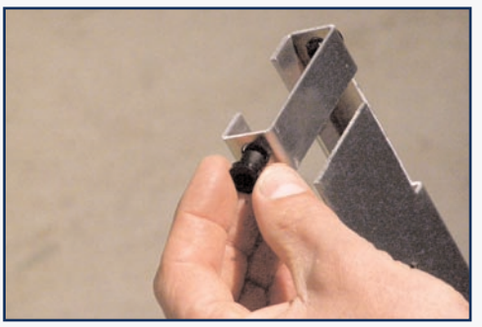
Tools needed

1 Ratchet with socket 10
2 Spanner 10
3 Tape measure



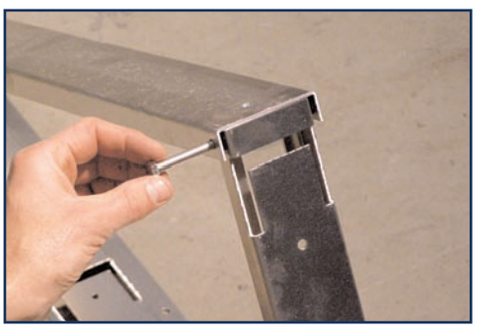
1. Unfolding the FlatFix support

Unfold the short leg from under the ground leg of the FlatFix support



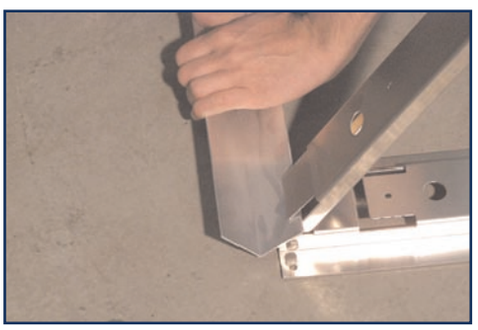
2. Placing the nylon sleeves

Put the two nylon sleeves in the holes of the (now upstanding) short leg.



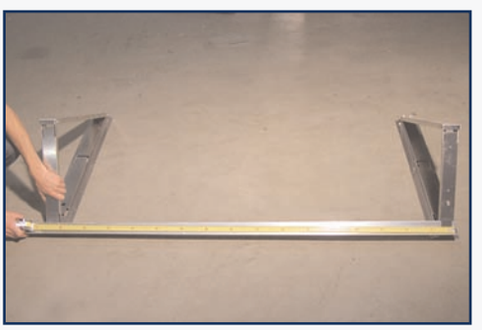
3. Assembling the support to form a triangle

Unfold the long leg from the ground leg en let it rest on the short leg.
Align the holes and slide the M6 bolt through both legs and fixate it with a self locking nut.
Pay attention that the nylon sleeves are correctly placed in the short leg.



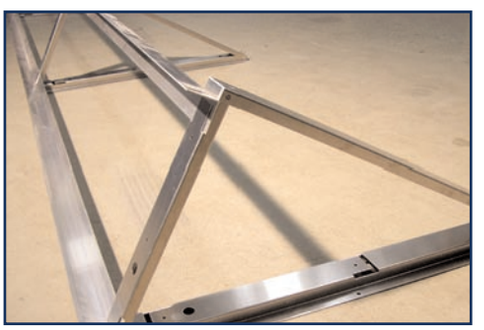
4. Assembling the aluminium profile

A standard aluminium profile 50x50x2 is used to align the modules, and for putting in ballast
Simply slide and snap the aluminium profile in the lower recess of the short leg.



5. Placing the other supports

Measure the required distance between the FlatFix supports, and mark this on the aluminium profile. Snap the required number of FlatFix supports on the aluminium profile.

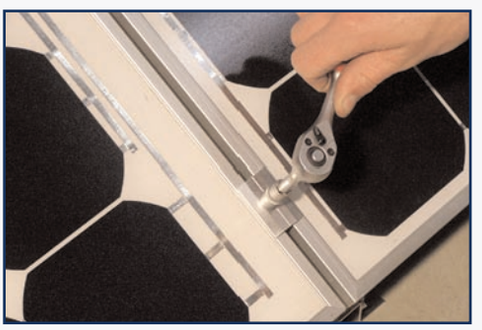


6. Placing the second aluminium profile

After all the FlatFix supports are laid down, the second aluminium profile is placed.
Again simply slide and snap the aluminium profile in the upper recess of the short leg.

7. Installing the first solar module

Put the first solar module on the FlatFix supports, and fasten it on one side with two special end clamps.



8. Installing the other solar modules

Put the solar modules on the FlatFix supports, and fasten them with two clamps.
The last solar module in a row is fastened exactly as the first, see 7.

9. Placing ballast

The ballast is placed after all the solar modules are fastened and all the cabling is finished. This is done with standard concrete tiles of 40 x 40 cm or 40 x 60cm.These tiles fit exactly in the 2 aluminium profiles. When the backside is completely filled every module has about 80kg of ballast. When in some cases this is not sufficient one can also put aluminium profiles with tiles in the ground legs.