Assembly

- Contact
- Assembly overview and video tutorials
- Common mistakes (checklist)
- Assembly manuals
- Maintenance manual
We support partners before, during and after the implementation of our shelters.

Apart from technical support, we offer consultations on how you can adapt our shelters to meet your specific needs.

If you notice any inconsistencies in the content of this document or have any suggestions, please reach out.

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Better Shelter assembly overview

1. Identify appropriate location and ground conditions
2. Install anchors and foundation (video 1-5)
3. Assemble roof structure (video 6-8)
4. Attach panels, ventilation and solar panel (video 9-13)
5. Install pipes on foundation (video 14)
6. Mount roof on frame
7. Add pipes and cross wires
8. Attach panels (video 15)
9. Install windows and door (video 16-17)
10. Install windows and door (video 16-17)
11. Install floor (video 19)
Hope starts with a home

Common mistakes guide
Common mistake

Forgetting to insert the L-bolts in the ground plates.

This will lead to the risk of the shelter not properly being anchored to the ground, and compromising stability when facing strong winds, rain and torrents.

Correct approach

Ensure that the L-bolts are inserted to connect the ground plates with the ground pipes.
Common mistake

Not hammering the anchor to the correct depth into the ground.

Correct approach

Hammer the anchor to the correct depth.

If the anchor is not hammered deep enough, it may make the shelter vulnerable to strong winds. If the anchor is hammered too deep, there will not be enough cable left to attach to the ground plate.
Common mistake

Hammering the ground anchor too far from the ground plate.

Correct approach

Hammer the ground anchor close to the ground plate.

* The anchor will not be deep enough into the soil to be loadbearing and the shelter risks blowing away.
Common mistake

Placing the pipes with the holes facing the wrong direction.

Correct approach

Place the pipes with holes facing the correct direction.

* If the holes are placed in the wrong direction, inserting the L-bolts to attach the ground pipe, joint and wall column will not be possible. This can make the shelter unable to withstand strong winds.
Common mistake
Forgetting to insert the L-bolts in the joints that connect to the ground pipe.

Correct approach
Ensure that the L-bolts are inserted to connect the joints to the ground pipes.

May lead to the risk of the pipes slipping out of place when exposed to strong winds or torrents.
Common mistake

Not inserting the wall pipes all the way down so that they are resting on the L-bolts underneath.

Will pose a risk of compromising stability. The roof will not be able to take wind forces if the pipes are not resting on the L-bolts.

Correct approach

To ensure to insert the wall pipes all the way down so that they are resting on the L-bolts underneath.
Common mistake
Not attaching all four L-bolts to the roof truss.

Correct approach
To ensure that all the four L-bolts are attached to roof truss.

The L-bolts will support the roof truss and stabilise it when facing strong winds.
Common mistake

Overlapping the roof panels in the wrong direction, from left-to-right.

Will pose a risk of water leakage.

Correct approach

To ensure the roof panels are overlapping in the correct direction, from right-to-left.
Common mistake

Placing the roof panels on an uneven plane, so that a depression forms a gutter at the eave/edge of the roof.

Will pose a risk of water collecting on the roof and not being drained.

Correct approach

To ensure that the wall and roof panels are correctly placed on a straight, even plane to avoid forming a gutter.
Common mistake

Overlapping the wall panels in the wrong direction, from left-to-right.

Correct approach

To ensure that the wall panels are overlapping in the correct direction, from right-to-left.

* Will pose a risk of water leakage.
Common mistake

Not attaching the T-connectors to the L-bolts.

* Will pose a risk in compromising the stability of the shelter, as it will not work as one unit/system against strong winds and torrents.

Correct approach

To ensure to attach the T-connectors to the L-bolts.
Common mistake
Not attaching the T-connectors all the way into the pipe.

Will pose a risk in compromising the stability of the shelter, as it will not work as one unit/system against strong winds and torrents.

Correct approach
To ensure to attach the T-connectors all the way until the stop into the pipe.
Common mistake

Not connecting the wire bracing on the short side to the correct hole.

Correct approach

To ensure the wire bracing on the short side is connected to the correct hole.

* Will pose a risk in compromising the stability of the shelter, as it will not work as one unit/system against strong winds and torrents.
Common mistake

Not tightening the wire bracings enough when the build is done.

Will pose a risk in compromising the stability of the shelter, as it will not work as one unit/system against strong winds and torrents.

Correct approach

To ensure that the wire bracings are tightened to a sufficient tension when the build is done.
Common mistake

Mounting the door with the hinges facing a non-load-bearing pipe.

* Will pose a risk that the door will fail over time.

Correct approach

To ensure the door is mounted with the hinges facing a load-bearing pipe.
Common mistake

Placing the door canopy overlapping the wall and roof panels.

Will pose a risk of water leakage.

Correct approach

To ensure that the door canopy is placed under the roof panel and above the wall panel.
Important control steps marked in red
1.

Max 6 degrees slope
Better Shelter

A1 _ Foundation

Assembly Manual

Manual de Montaje
Manuel de Montage
Montageanleitung
Manuale di Montaggio

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CONTENTS Box A1

Steel

- 10x #001 (50cm)
- 4x #005 (149cm)
- 6x #004 (180cm)

Legend

1 2 Main steps of assembly
1 2 3 4 Sequence of assembly
2#004 Insertion path
X2 Number of parts in step or total
Part ID number
Number of repetitions

Movement direction
Active part
Information
Detail placement
Rotate part or move to opposite part of shelter
Important detail or position

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1. Hole directions simplified

2. Hole direction

Recommended number of holes above ground:

1
2
3
4
Repeat Step 5
Make sure L-bolt connects ground plate with ground pipe. 10 in total.
1. Simplified view

2. 

3. Pull to stop

25/30cm
Make sure all 10 ground anchors are fully attached to each ground plate.
Make sure all 10 joints are mounted the right way, leveled and attached to the ground pipes with L-bolts and wing nuts.
CONTENTS Box A2

A Box Main + A1

Legend

12 Main steps of assembly
1234 Sequence of assembly
2x Insertion path
Number of parts in step or total
#004 Part ID number
X2 Number of repetitions

Movement direction
Active part
Information
Detail placement
Rotate part or move to opposite part of shelter
Important detail or position

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Attach 4 L-bolts with wing nuts in each roof truss joint.
Make sure the centre joint is mounted with the correct orientation. Pointy side down.
Make sure L-bolts are inserted with wing nuts.
Do not tension fully, just reduce slack evenly across structure.
Pipes should be over the wires.
Start applying panels from right to left.
Push the fabric of the mosquito net all the way over the bolt so that the fabric does not get tangled up in the thread and the ventilation opening is rain proof.
Make sure both panels are fully inserted in the gable/U-profile
Better Shelter
PV System Assembly Manual

Manual de Montaje
Manuel de Montage
Montageanleitung
Manuale di Montaggio
CONTENTS PV Panel System

1x

#125

1x

#068

4x

#037

4x

#036

1x

#171

2x

1x

1x

1x

1x

1x

1x

CONTENTS PV Lamp (Box B)

#172

#187

#188

#199

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Insert cable inside the pipe before metal bolt goes through the pipe.
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B _ Walls Assembly
Manual

Manual de Montaje
Manuel de Montage
Montageanleitung
Manuale di Montaggio
Insert pipes all the way until it stops against the L-bolt
Insert the pipe all the way into the joint until the stop.

Do not tension fully, just reduce slack evenly across structure.
Push the fabric of the mosquito net all the way over the bolt so that the fabric does not get tangled up in the thread and the window frame is rain proof.
Start wall panel assembly from right to left.
Check assembly order of panels
1x

Center sheet on middle pipe

1x

X20

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Spare Part Kit Contents

- 20x
- 20x
- 10x
- 2x
- 2x
- 1x
- 1x
- 1x
- #038
- #559
- #153
- #152
- #181

2x *Spare Part Panel