Foundation

- Contact
- Anchor system
- Soil foundation
- Concrete slab foundation
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.
Frame installation
Ground anchoring

Section showing activated Ground anchor and affected earth pillar. This also shows the necessity of compacting the earth.

10 per shelter

Securing the frame – 5 lock points

1. Ground anchor wire secured to ground plate.
2. Ground pipe inserted into ground if possible.
3. L-bolt attached to ground plate and ground pipe.
4. L-bolt attached to metal joint 3 and ground pipe with a wing nut.
5. Wall wire attached to metal joint 3.
Important control steps marked in red
1

2

Max 6 degrees slope
CONTENTS Box A
Better Shelter
A1 _ Foundation
Assembly Manual

Manual de Montaje
Manuel de Montage
Montageanleitung
Manuale di Montaggio
CONTENTS Box A1

Legend

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

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

Steel
10x #011 (50cm)
4x #005 (49cm)
6x #004 (180cm)

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1. Hole directions simplified

Hole directions simplified

Recommended number of holes above ground

1
2
3
4

15cm
Repeat Step 5
Make sure L-bolt connects ground plate with ground pipe. 10 in total.
Simplified view

1. Pull to stop
2. 25/30cm
3. #070
4. #070
5. #017

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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.
Frame installation
Anchoring to concrete slab

Improves performance in these situations:
- Flooding prone areas.
- High wind areas (coast etc).
- Protracted situations.
- Non-family applications, such as clinics, distribution centers etc, i.e. high wear and tear).

- Increases general wind resistance
- Increases lifespan of shelter
- Increases beneficiary comfort

Concrete slab example
For 1 RHU

Ledge for water protection
MIN 3360 mm
MIN 5700 mm

Concrete slab recommended dimensions
Minimum thickness 150 mm

Placement of reinforcement

Recommended reinforcement bar type:
Mat, grid 100-150 mm
Bar, diam 6-8 mm

Bill of Quantity - 1 std RHU
- 5-10 m measuring tape
- Thick black pencil
- Power drill
- 40x M8 anchors*
- 40x M8 washers
- 40x M8 lock nuts
- Hammer
- Suitable wrench
- Drill 20-25 mm diam
- Drill (M8)

Bolt type suggestion
- Economy sleeve anchors
- Standard wedge anchors

Concrete slab assembly
Step by step

1. Mark out & Drill holes according to below drawing

Note the rotation of L-bolt entry direction on short sides

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Concrete slab assembly
Step by step

1. Mark out & Drill holes according to below drawing

Note the rotation of L-bolt entry direction on short sides
2. Use the ground plate as a detail template

3. Recommended: Insert Ground pipes

4. Hammer in chosen type of bolts

5. Place the 010 Ground plate - secure with bolt

6. Secure with nuts and washers

- Insert Ground pipes MIN 25 mm
- Place the 010 Ground plate - secure with bolt
- Hammer in chosen type of bolts
- Secure with nuts and washers

Do not overtighten