Better Shelter
Assembly Overview
Better Shelter

- Better Shelter is a humanitarian innovation project.
- We design and develop modular temporary shelters with an aim to improve the lives of persons displaced by war and natural disasters. Providing them a safer and more dignified home.

Better Shelter Unit

- Temporary, lightweight, modular shelter.
- Can easily be dismantled, moved and reassembled and adapted to different needs and areas of use.
- It has 17.5 m², designed for 5 persons, and according to Sphere Standards of 3.5 m² per person.
- Dimensions: L 5.7 m x W 3.3 m x H 2.8 m
- Expected lifespan is three years, depending on climate conditions and maintenance.
- Thanks to its optimized design, the shelter can withstand strong wind (up to 28 m/s) rain, snow (up to 10.5 kg/m²) and heavy impact.

- Units and respective spare parts should be stored in a proper warehouse where they can be monitored and safely kept.
- Bad storage conditions which may lead to the break or loss of elements within the package.

- It can be transported in 20 ft containers - 17 units; 40 ft - 36 units and 40 ft HC - 48 units.
- One shelter is delivered in two boxes, 169 kg in total and 1.15 m³.
- Each box comes with manuals, which can be quite helpful in the first stage of implementing the project and building the units.

- Frame – made of strong galvanized steel.
- Panels – opaque, semi-hard polyolefin foam panels.
- Door – lockable from the inside and the outside,
- Windows and Ventilation – The shelter has 4 windows and 4 ventilation openings
- Ground Anchoring
- PV System - Solar panel, for light and charge devices
Assembly overview

Assembly takes min 4 persons and between 4 and 6 hours.

The shelter is assembled in three stages:

**BOX A**

**Steel foundation**

| 1. Fix the ground pipes and plates using the ground template |
| 2. Fix the anchoring system, foundations of the unit |
| 3. Build and fix the ground frame, base for the shelter |

**Roof**

| 4. Build the roof frame |
| -- Place the roof on top of the ground frame -- |
| 5. Fix the cross bracing |
| 6. Place roof pipes |
| 7. Assemble roof panels and ventilation |
| 8. Build and fix the solar panel |

**BOX B**

**Walls**

| 9. Fix wall pipes, frame |
| -- Place the roof on top of the wall frame -- |
| 10. Fix the cross bracings |
| 11. Assemble wall panels, windows and door |
| 12. Place and fix the ground plastic flooring |
| 13. Place the curtain and lamp |

**BOX A**

**Steel foundation**

1. Fix the ground pipes and plates using the ground template
3. Build and fix the ground frame, base for the shelter
Roof

4. Build the roof frame

5. Fix the cross bracing
6. Place roof pipes

6. Assemble roof panels and ventilation
7. Build and fix the solar panel
BOX B
Walls

8. Fix wall pipes

-- Place the roof on top of the wall frame --

9. Fix the cross bracings

10. Assemble wall panels, windows and door
11. Place and fix the ground plastic flooring

12. Place the curtain and lamp