

S U R I

SHELTER UNIT for RAPID INSTALLATIONS

SURICATTA
SYSTEMS

by

urbana 

INNOVATION
DEVELOPMENT
RENOVATION

*SURI is a supported project by CDTI Center for
Technological Industrial Development.
Ministry of Science and Technology.
Government of Spain.*



*Patent PCT
pending*

“ Suricatta Systems is a business project born from Urbana IDR company, which was created during the reconstruction of several buildings after the earthquake in Lorca (Spain) in 2011, using the experiences lived by our volunteer teams who were in Haiti and the expertise of our staff in peacekeeping missions.

In Lorca we had the opportunity to check, in-situ, the harsh living conditions in which the victims found themselves, together with the difficult working conditions that the people helping them had to face.

The initial contact with specialized UN agencies and NGOs involved, made us realize that this was an area for great development. These and other similar situations were being experienced every day in many parts of the world, and millions of people are still being affected.

Our experience in the construction field as well as our corporate philosophy to provide solutions, led us to work on the design of a product which seeks to improve the living / working conditions of all those people involved.

For the last three years a multidisciplinary team has been working to try to resolve the problem and now the product is already a reality.

We offer a modulating construction system that could solve many of the problems that are faced in conflictive areas and this has made us aware of the range of needs that still have to be addressed. ”

ACHIEVEMENTS



TRANSITIONAL SHELTER

SURI (Shelter Unit for Rapid Installation) Designed for global solutions with immediate results.



LOW COST

Competitive price offering many advantages.



LOGISTICS

Lightweight, resistant, easy to transport and assemble.



FLEXIBLE

Each unit can be joined from both directions, allowing clusters to be formed providing shelters of different dimensions to create any type of buildings within in camps.



IMPROVED LIVING / WORKING CONDITIONS

Improves higrathermal comfort. Facades are breathable, waterproof and thermally and acoustically insulated. SURi offers solutions for extreme climates.



RE-FILLABLE

To reduce transport costs and difficulties, SURi was designed to be re-fillable once in its destination to reinforce its stability and protection. Local materials such as earth, debris, sand etc...



NATURAL LIGHTING & SOLAR PANELS

The design has taken into consideration natural light regulated for optimum temperature and light intake within the shelter as well as providing sufficient energy for light and electricity.



RAINWATER COLLECTION

A water collection system has been designed to take the rainwater to a tank. After passing through a filter it is converted into drinking water.



100% RECYCLABLE AND SUSTAINABLE

The entire unit is made of a variety of recyclable plastic and some of the parts have been made from recycled materials, helping to be environmentally friendly.



URBANISATION

The unit integrates into the landscape and promote social activities.



ANTI-MOSQUITO

The walls are treated with a brand new product which is harmless to humans and provides protection against mosquito and other insects. This is essential to prevent serious diseases in the camps.



LIFE EXPECTANCY

10 years, 100% UV protected.



TRANSPORT LOGISTICS

by CONTAINERSHIP [*]



TOTAL LOAD: 11.000 CONTAINERS = 66.000 SHELTERS = 330.000 UNITS

330.000 UNITS = 33.000 TONES

by PLANE [**]



TOTAL LOAD: 170 SHELTERS = 850 UNITS

850 UNITS = 85 TONES

TRANSPORT TIME: 1 DAY

by CONTAINER 40" HIGH-CUBE [***]



TOTAL LOAD: 12 SHELTERS = 60 UNITS

60 UNITS = 6 TONES

- * Emma Maersk
- ** Antonov An-225
- *** Shelter measures:


2.67 x 2.94 x 6.74 m



by 2 PEOPLE

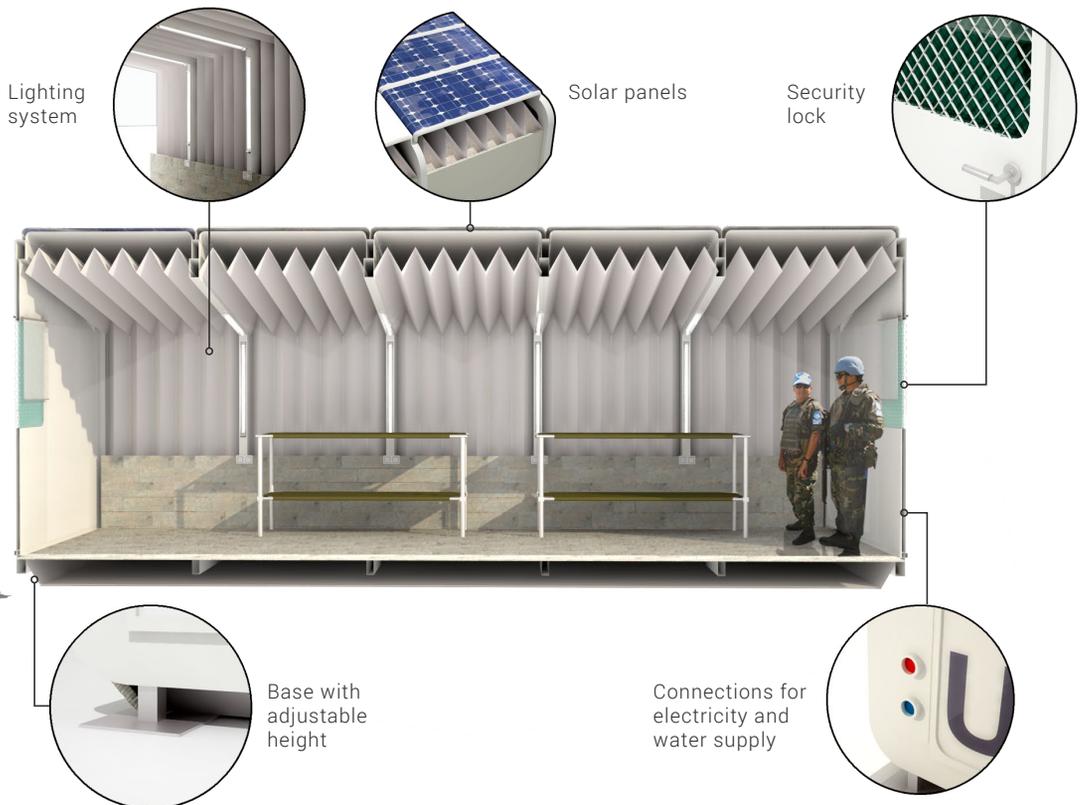


TOTAL LOAD: 1 UNIT

1 UNIT = 2 PACKS = 110 Kg (220 lb)

- ESTRUTURE + SKIN = 40 Kg (88 lb)
- FLOOR + ROOF = 30 Kg (66 lb)
- FAÇADES = 30 Kg (66 lb)

A SURI SHELTER MODEL



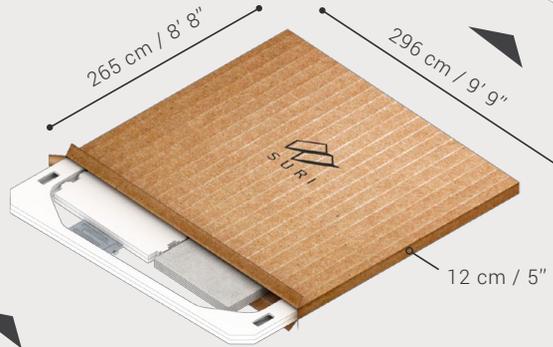
SURI UNIT PACKS

PACK CONTENT:

- 2 structural frames
 - 2 folding walls
 - 2 multi-functional skirting
 - 4 insulating textile walls
 - 1 roof
 - 8 picks
 - 1 universal tool to assemble
-
- 1 floor
 - 2 technical façade

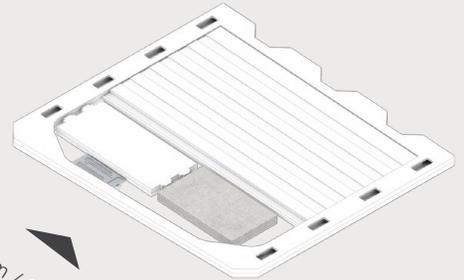


1

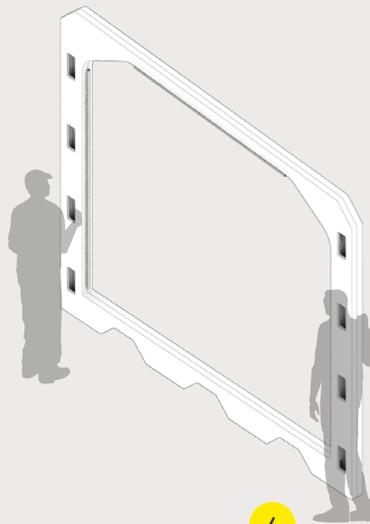


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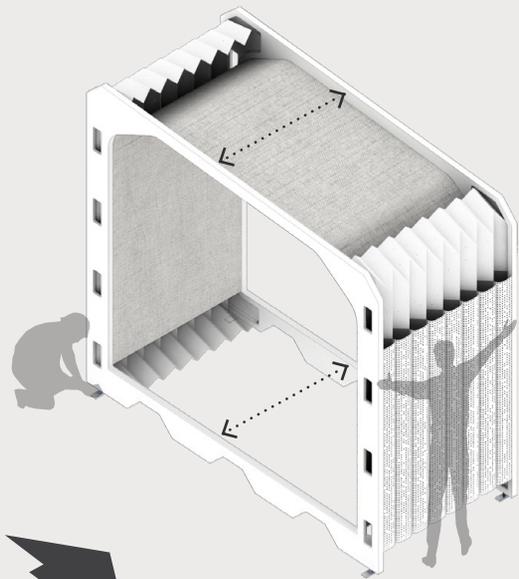
Handles and wheels for easy transport



3



4



5

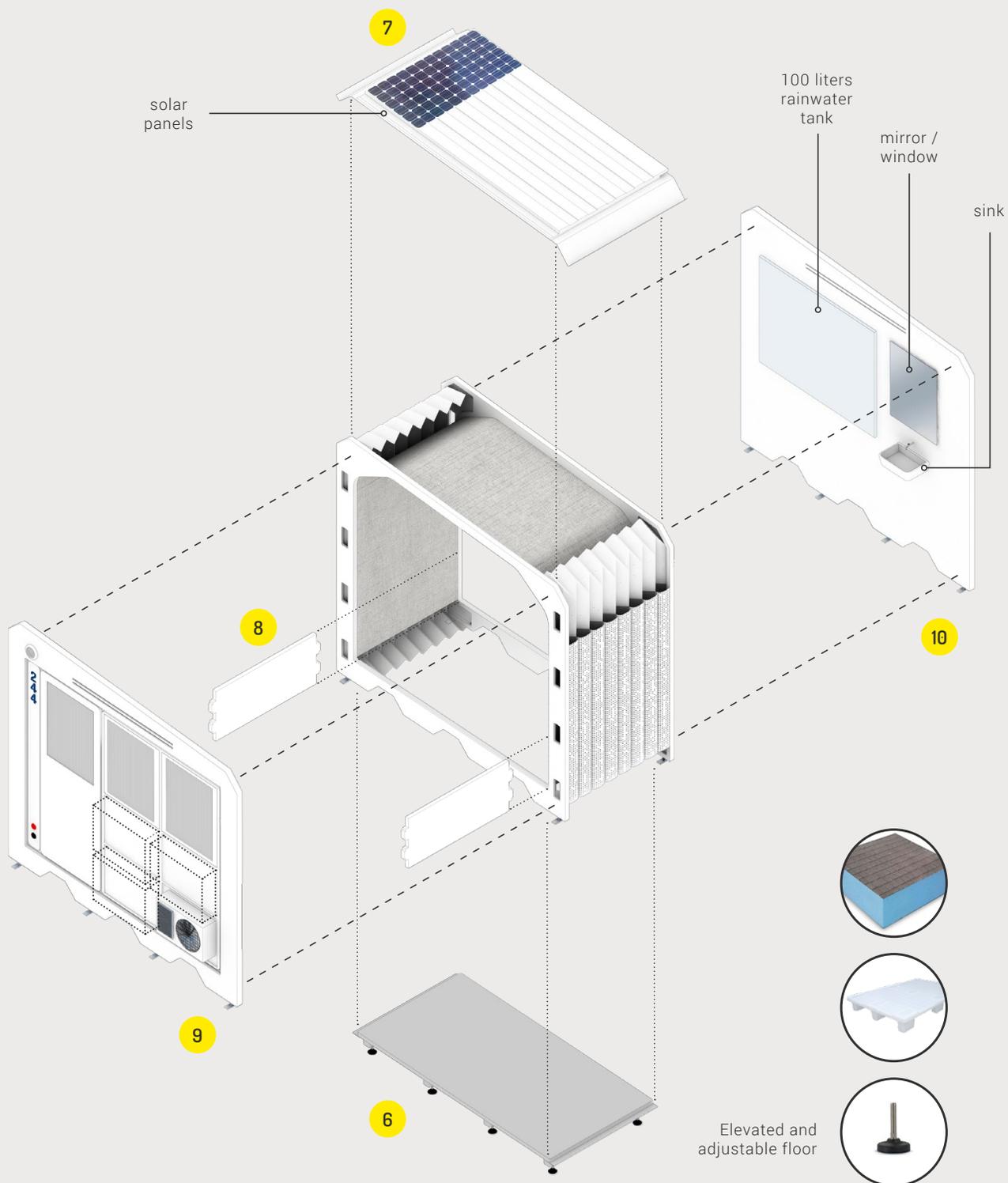
130 cm
width

3.5 m² / 7.8 m³

10 cm
width

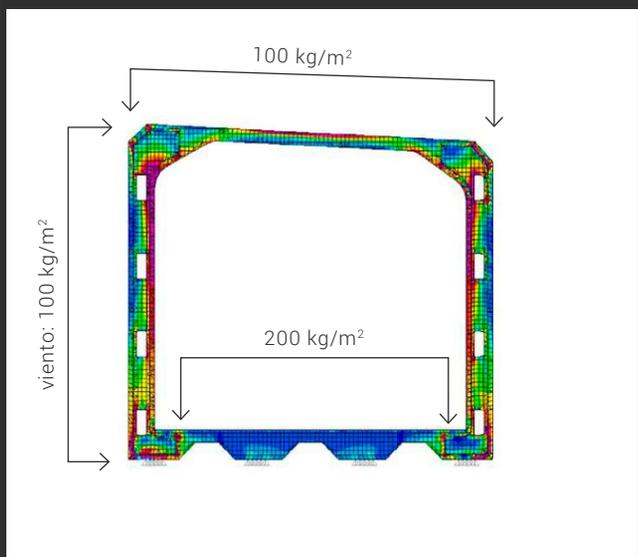
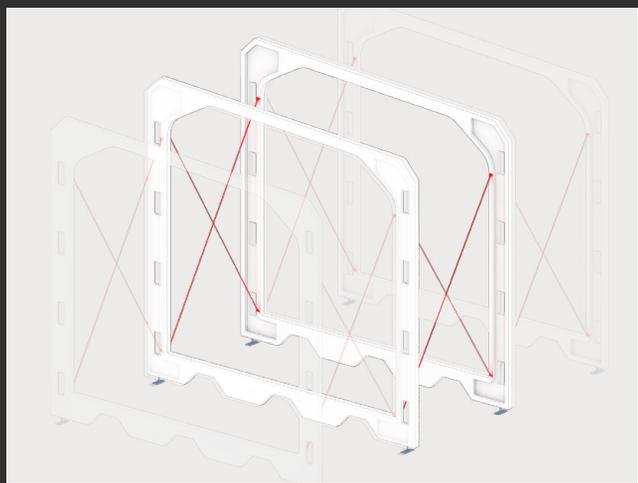
Only 2 people
needed to
assemble

ASSEMBLY BY ONLY 2 PEOPLE

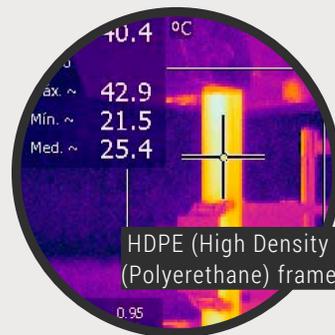
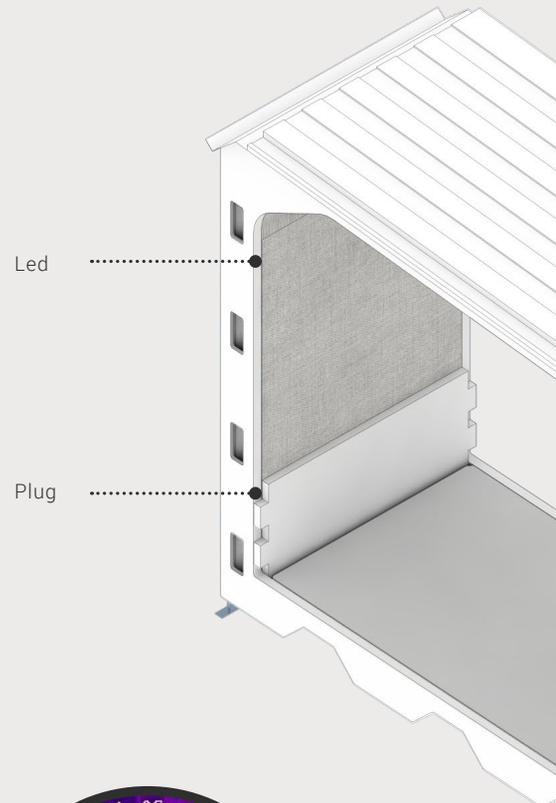


MATERIAL TESTING

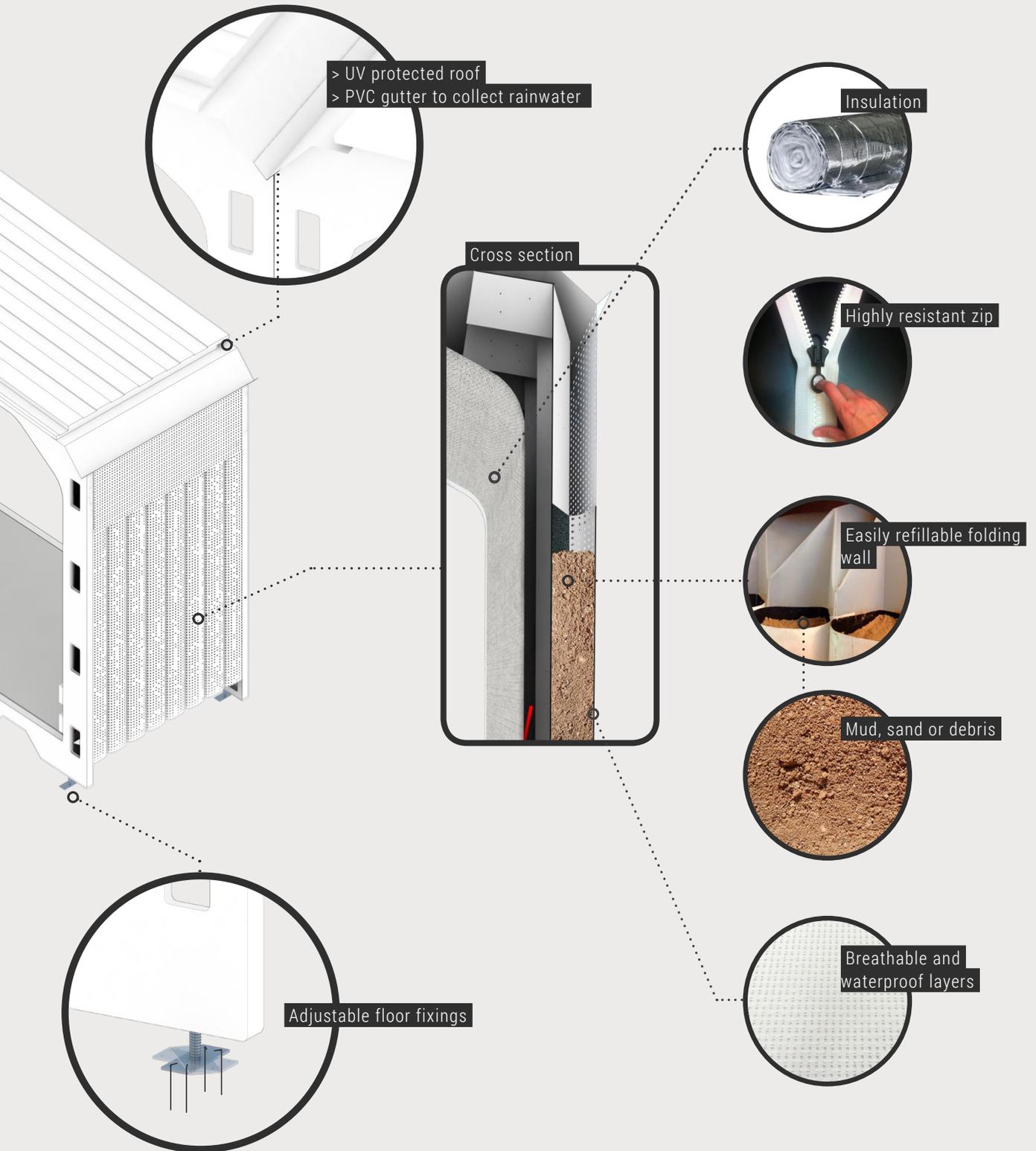
TECHNICAL FRAME



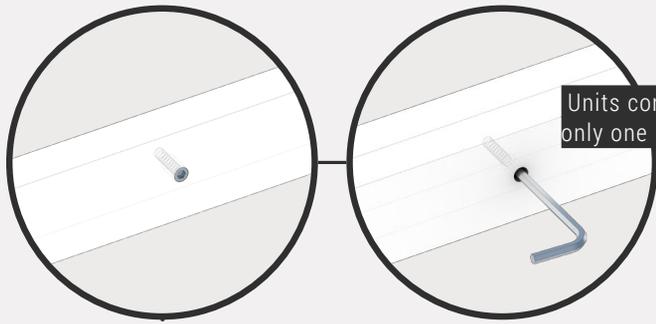
The Structural Design Department at the Faculty of Civil Engineering, University of Alicante, has tested the unit in order to comply with European regulations.



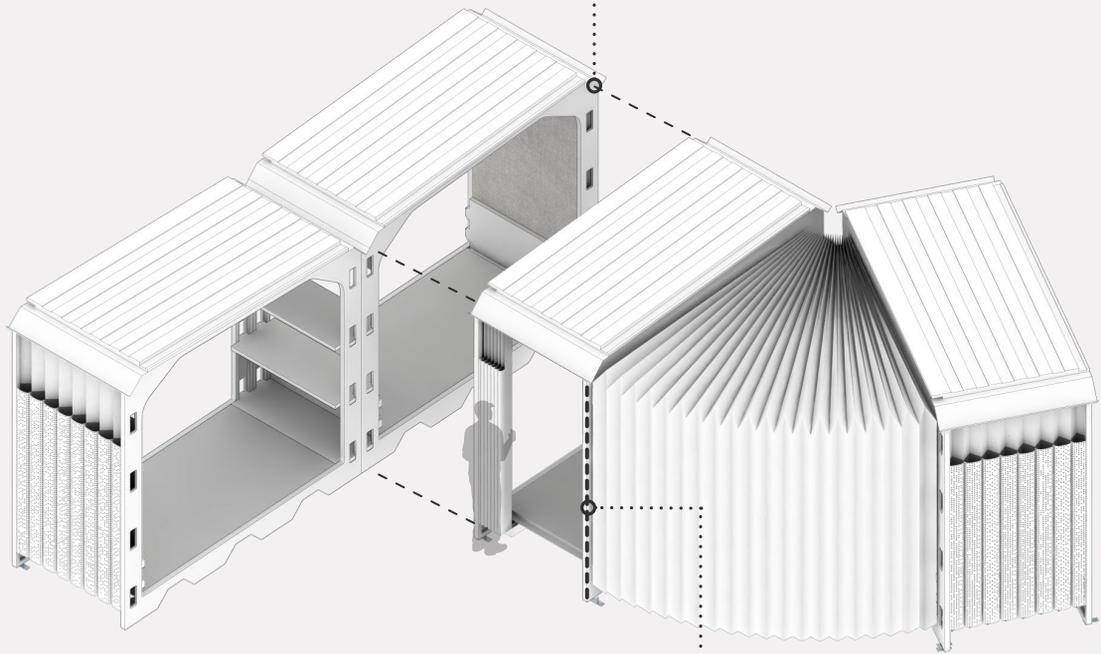
HDPE (High Density Polyethylene) + PU (Polyurethane) frame



FLEXIBILITY



Units connected by
only one universal tool

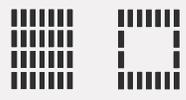


Highly resistant zip

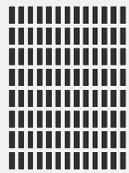
UNIT
1 person

SHELTER
5 units - 5 people

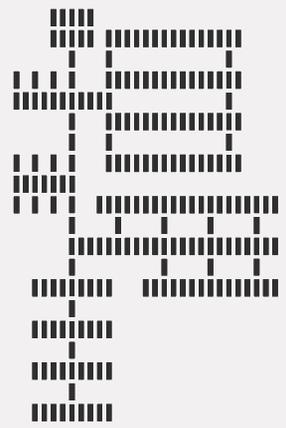
SHELTER
7 units - 7 people



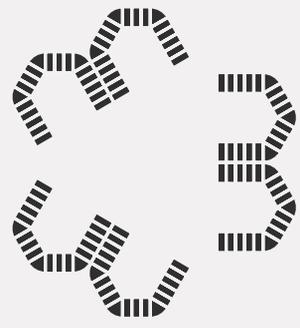
PAVILLION/PATIO



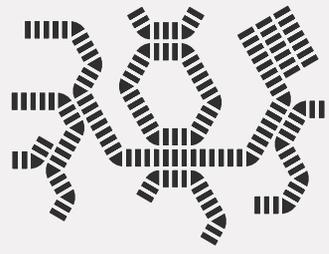
OFFICE/NURSERY



FIELD HOSPITAL



COMMUNITIES



ORGANIC STRUCTURE

“ With SURl you can build
wherever and whatever ”

OUR TEAM

Our great team is composed of the following companies, professionals and organizations:



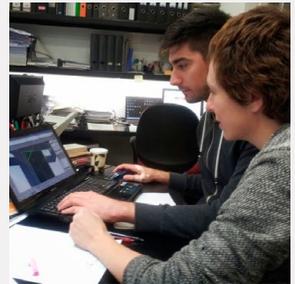
URBANA IDR

With expertise knowledge in renovating damaged buildings, years of experience bidding around the world and highly skilled staff in peacekeeping missions and emergency areas. Urbana are the innovators of SURI.



BARBARELA STUDIO

Founded by architects now they are a multidisciplinary team in charge of the design of SURI.



UNIVERSITY OF ALICANTE

The development of SURI is supported by Alicante University. We are working with the Structural department lead by Mr. Salvador Ivorra.



FAB LAB ALICANTE

Lab of innovation in singular prototypes, belonging to Alicante University and to "Fab Lab" network, created by MIT (Massachusetts Institute of Technology).



AIMPLAS

Centre for Innovation and Technology (CIT). They provide solutions in all sector related to plastics.



TYVEK DUPONT

A recognized global leader in selective barrier technology. Lightweight and durable, Dupont Tyvek has introduced new dimensions of protection, security and safety in a wide variety of industries.



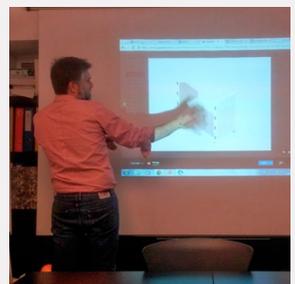
MEDENTECH

committed to driving a significant positive health impact globally by improving access to safe drinking water.



KOLMER

Providing high-tech products for construction and refurbishment sectors for more than 60 years they are responsible for the anti-mosquito solutions included in SURI.



○ **Price**

SURI is a very competitive product with a wide range of options. Although it is a new concept we have used existing materials to produce an innovative new product, ensuring a more economical solution whilst improving the quality.

○ **Availability**

First units will be available in summer 2014.

○ **Durability**

All the materials are treated for a UV resistant and other additions for 10 years expected life.

○ **Weight**

Designed to be assembled by only 2 people with only one small tool, never carrying more than 50 Kg. at one time.

○ **Resistance in extreme conditions: storms, floods, earthquakes, snow**

SURI has been developed under the Spanish Regulations and within the European Union framework and therefore fulfills all the expected construction aspects. In addition after filling the walls a solid structure able to withstand the most of extreme conditions is achieved.

○ **After sales-support**

A specific 24/7 department provide a complete after-sales service for our to the clients.

○ **Consultancy**

Our team can quickly provide the best solution for your needs. Don't hesitate to ask for a free study.

○ **Where is SURI made?**

Our first factory has been set up in the South of Spain.

○ **Next achievements**

We are working in new materials and additives such as graphen, kevlar to get more benefits (stronger structure or bullet proof walls).

For further information
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