

REFUGEE HOUSING UNIT

CREATING BETTER HOMES FOR EMERGENCY RELIEF AND BEYOND

The Refugee Housing Unit RHU is an innovative shelter resulting from a partnership between UNHCR, the IKEA Foundation and the Refugee Housing Unit, designed to improve the living conditions of people displaced by natural disasters and conflicts.



THE REFUGEE HOUSING UNIT



The Refugee Housing Unit (RHU) is composed of three individual parts – RHU Frame, Panels and PV System. All RHU components can be assembled on site without additional tools and equipment.

Prototypes have been tested and evaluated by UNHCR with respect to the personal, social and cultural expectations of the people that it aspires to rehabilitate, the environment that it is designed for, and the critical logistical and financial aspects of a large scale production and deployment, so as to deliver a dignified and viable end user experience.

Currently the design and engineering is finished and will be made ready for production.



FRAME



PANELS



PV-SYSTEM

Modular Design

The Refugee Housing Unit is composed of a modular design to make it a viable solution in the most shifting contexts. The RHU Frame is filled with pre-manufactured panels to create a temporary home. An included Photo Voltaic system can be attached to provide energy for the supplied light or to charge a mobile phone. Moreover, many Refugee Housing Unit• can be connected together to create bigger structures suitable for larger families or other functions. Additional winter and hot climate kit• are under development to make the Refugee Housing Unit even more suitable for different climate types.

Better Living Comfort

The design of the RHU was derived using the regulated European building codes. As a consequence, it provides a high standard of living comfort and safety. The spacious volume offers good ergonomics with full standing height, which also provides useful storage space.

Logistic Friendly

The RHU is optimised to meet high volume production conditions and flat pack logistic demands required to be cost efficient in the long run. Due to the materials and processes used, manufacturing and packaging of the RHU is suitable for global production.

SPECIFICATIONS



| | |
|------------------------|------------------------------------|
| Floor area | 17,5m ² |
| Windows | 4 pieces (620cm ² each) |
| Ventilation openings | 2 pieces (800cm ² each) |
| Door | 1 piece (740x1690mm) |
| Sphere compliant | Yes |
| Minimum ceiling height | 1840mm |
| Expected lifespan* | 3 years |
| UV | 2700 UVA – 100% functionality |
| Wind speed (frame) | 18 m/s (EC1) |
| Snow loads | 10 kg/m ² (EC1) |
| Modular | Yes |
| PV system | 4h light/day and USB power |
| Package Weight | 140 kg |
| Package Volume | 1.04 m ³ |
| Package A | 1960x1100x240mm (70kg) |
| Package B | 1960x1100x240mm (70kg) |
| Pallet dimensions | 1960x1100x140mm |
| Container 40 feet | 36 RHU shelters |
| Container 40 feet HC | 48 RHU shelters |

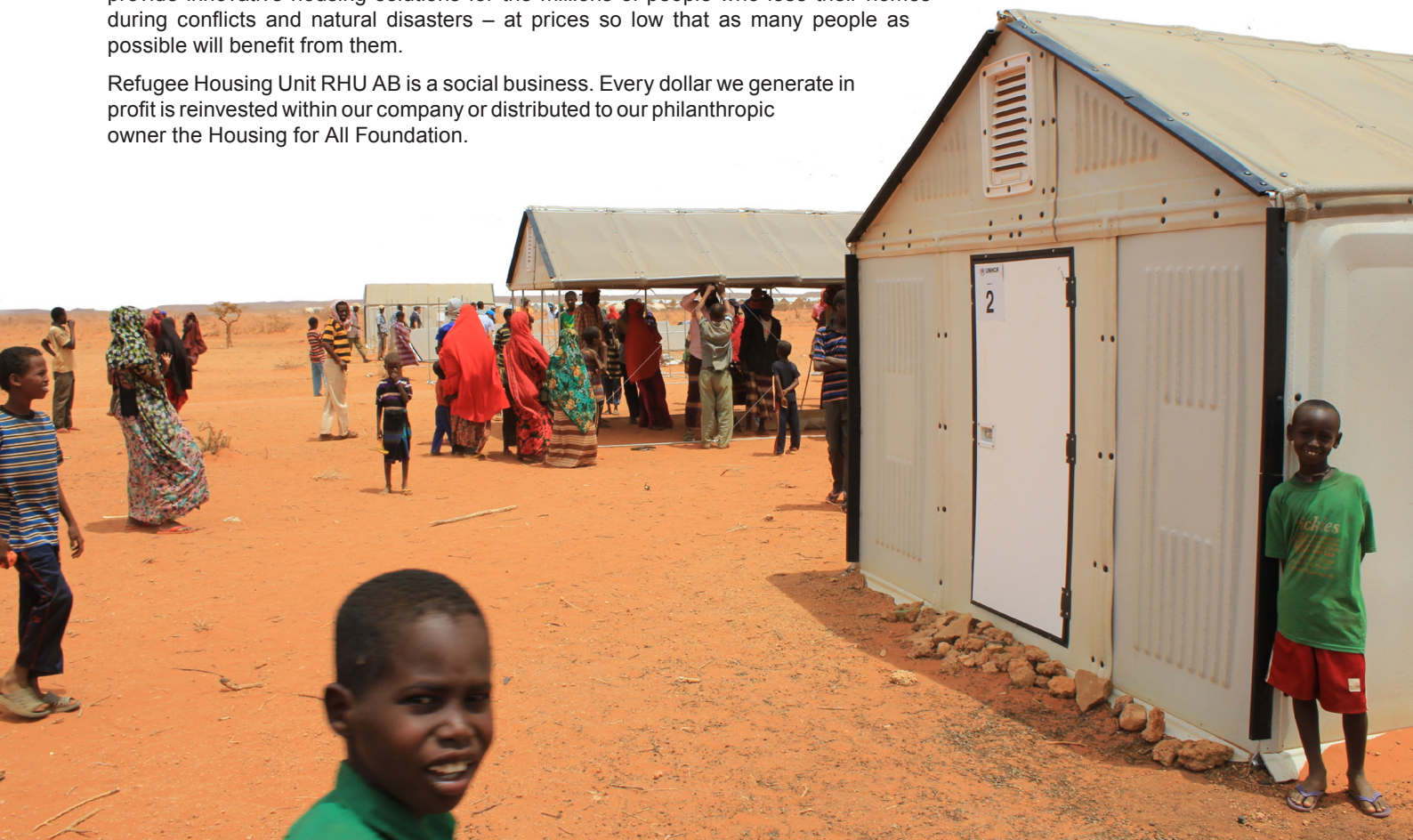
*Expected lifetime without maintenance 1,5 years, with maintenance 3 years

REFUGEE HOUSING UNIT – A SOCIAL BUSINESS

The RHU is a groundbreaking example of collaboration, technical innovation and practical application. Tested by some of the worlds most vulnerable families, putting their experience and needs at the heart of the development process.

The RHU is marketed by Refugee Housing Unit RHU AB. Our mission is to develop and provide innovative housing solutions for the millions of people who lose their homes during conflicts and natural disasters – at prices so low that as many people as possible will benefit from them.

Refugee Housing Unit RHU AB is a social business. Every dollar we generate in profit is reinvested within our company or distributed to our philanthropic owner the Housing for All Foundation.



Above: Kobe Refugee Camp, Dolo Ado, Ethiopia

Below: Kawergosk Refugee Camp, Erbil, Iraq

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