ContainerHome.info Mini Series

Presentation Book 20 - "Demark Upcycle House"



Valued Reader,

Following the incredible popularity of our digital book series – The Most Influential Shipping Container Homes Ever Built – we have decided to release a number of expanded titles for 2015 showcasing in greater detail some of the best in Container based Construction from around the World.

This **Booklet Number 20** in the series is free as an electronic download.

If you are interested in reviewing our first book or any others in the series please drop us an email, we would be happy to send you a copy for free.

As the World's leading educator in Container Home Construction we strive to bring our readers the very best in Container Home Design, Inspiration and Educational Resources.

If you have any questions about this booklet or our site in general please email us at admin@containerhome.info

Regards

Victor Wallace www.containerhome.info



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~^~	Project Type	High Level Upcycled Content	
	Container Type	2 x Type 1A 40' Containers	
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Ebook 20	Country	Nyborg, <u>Denmark</u>	THE REAL PROPERTY AND
	Architect / Engineer	Lendager Arkitekter	and a state of the
7 7	Size / Cost	129 sqm / \$175,000 USD	
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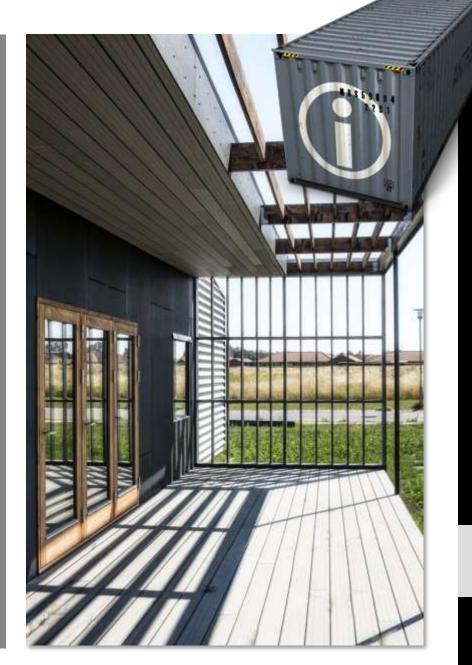
Upcycle House is an experimental project, aimed at exposing potential carbon-emission reductions through the use of recycled and upcycled building materials.

Upcycling is the process of converting wastematerials or waste products into new materials or products of higher quality resulting in a reduction in production and therefore CO2-emissions.

In the case of Upcycle House, the reduction has been 86% compared to a benchmark house.

With increasing building performance in regards to operational energy consumption, focus has now shifted towards CO2-emissions related to construction.

When building houses, it is therefore environmentally beneficial to think in terms of material recycling, since the materials have already emitted CO2. It is even better to develop processes where garbage or useless materials can be upcycled and reused for new building materials of higher utility value than they had originally.







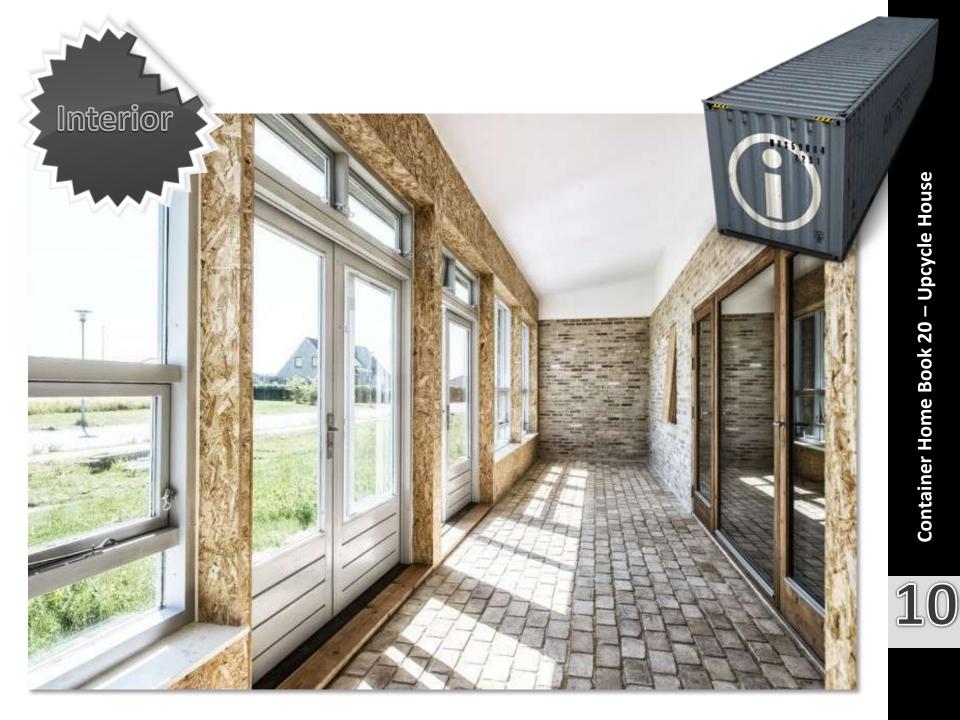


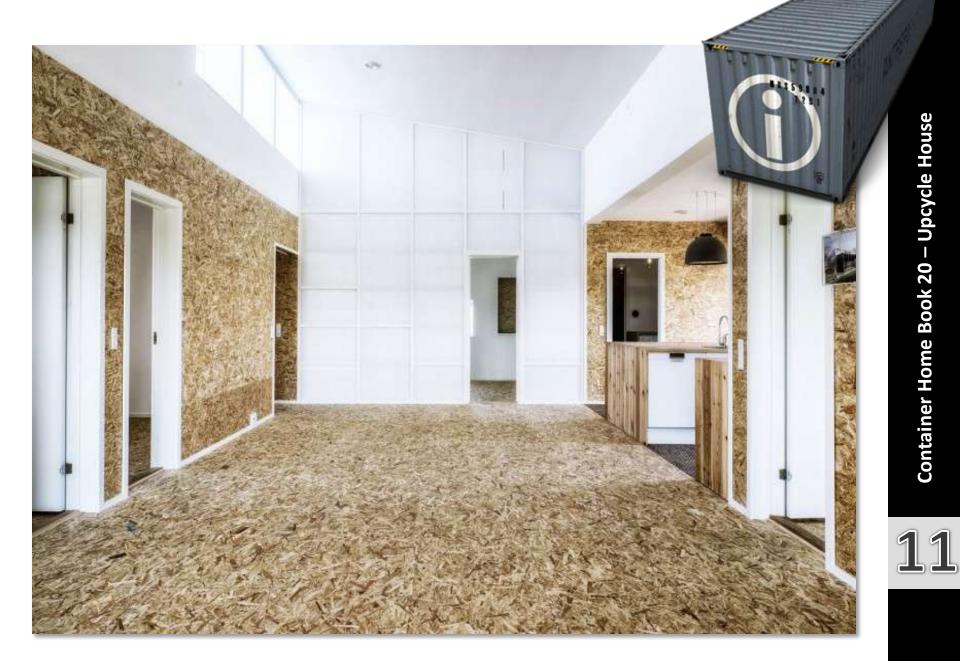


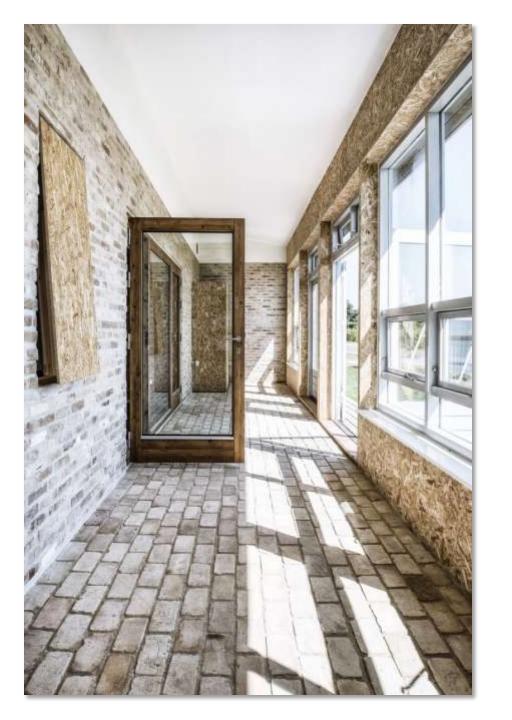
Realdania Byg (a Danish foundation that promotes innovation and good practice in the building sector) has developed and constructed a single-family house with Lendager Architects called Upcycle House conveying the principles of upcycling in a tangible and clear example.

The house is built of processed recycled materials and Upcycle House investigates how much it's actually possible to reduce the CO2 footprint by using upcycled materials to the extent possible. The loadbearing structure consists of two prefabricated shipping containers, while the roof and facade cladding is made from recycled aluminium soda-c<u>ans. Facade panels, consist of</u> post-consumer recycled granulated paper, which is pressed together and heat-treated. The kitchen floor is clad in tiled champagne cork-leftovers, and the bath tiles are made from recycled glass. Walls and floors are covered with OSB-panels consisting of wood-chips that are bi-products of various production sites, pressed together without glue. The recycled materials are not very visible and the house does not radiate a recycled look - The house looks and functions like a contemporary house built of conventional materials.



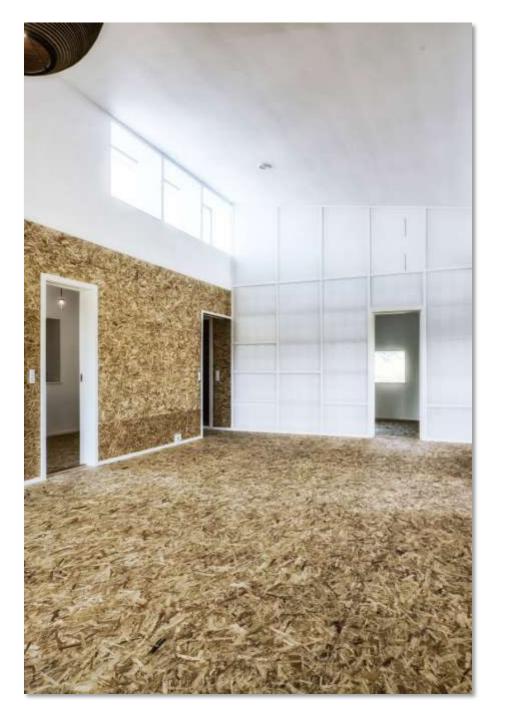






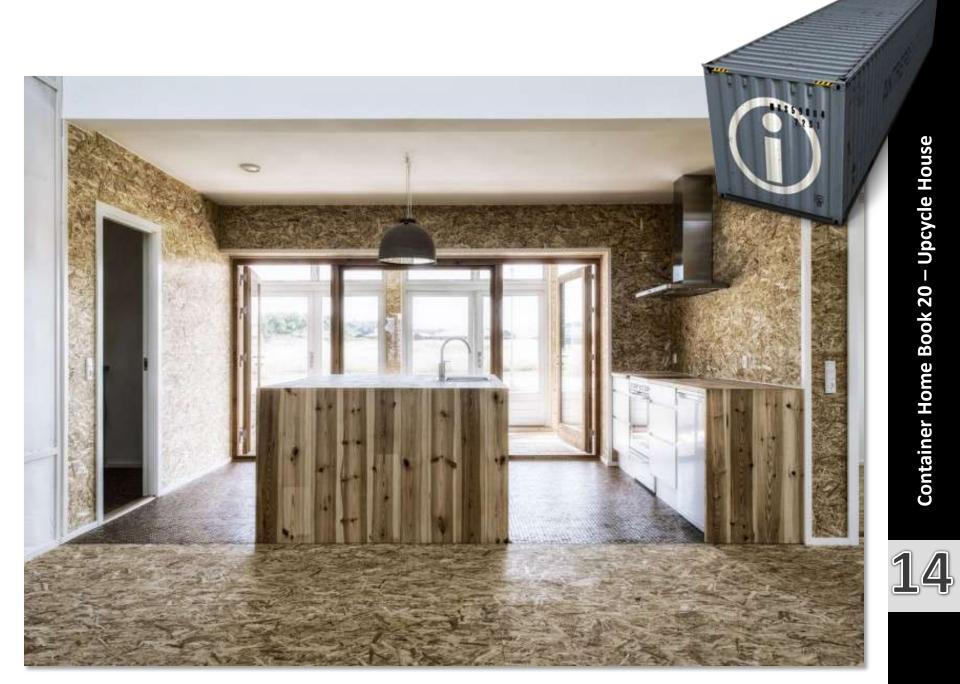






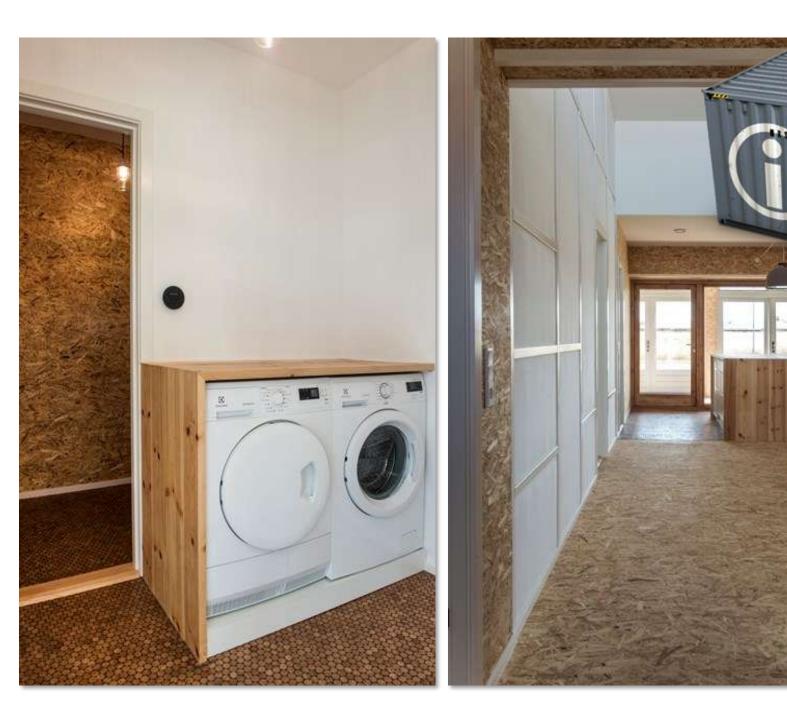




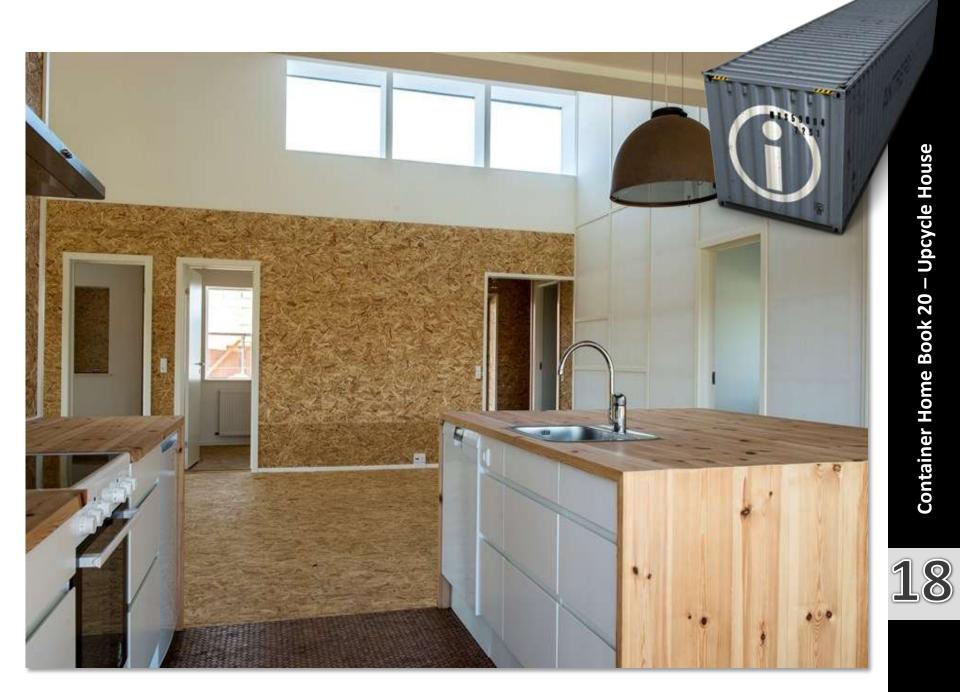








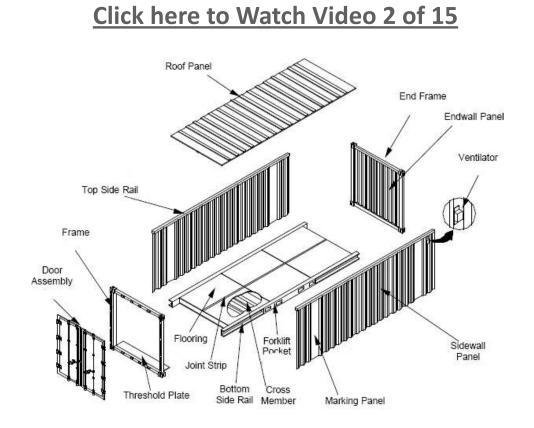








Video 2 in our series of 15 "How to Build a Container Home" Video Tutorials looks at How a Shipping Container is manufactured – Vital information if you want to re-engineer them.



Container Homes of the World – Video Tutorials

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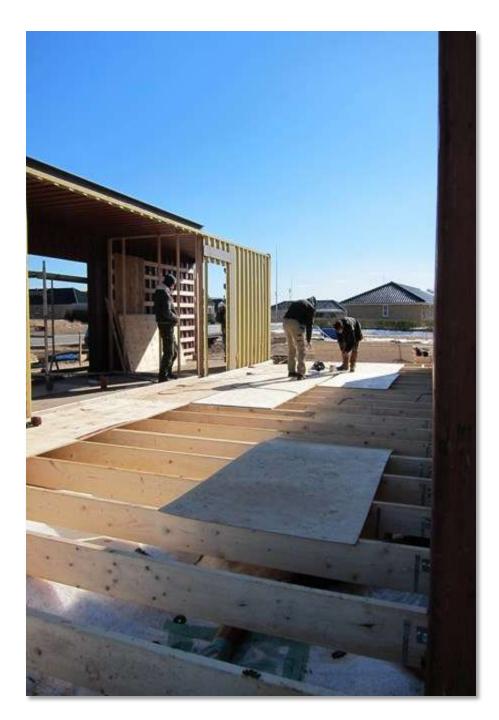
























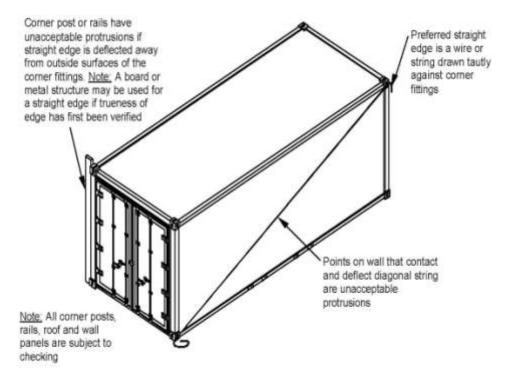






Video 3 in our series of 15 "How to Build a Container Home" Video Tutorials looks at Purchasing Second Hand Containers. What to look for and what to look out for !

Click here to Watch Video 3 of 15



- CHECKING FOR PROTRUSIONS

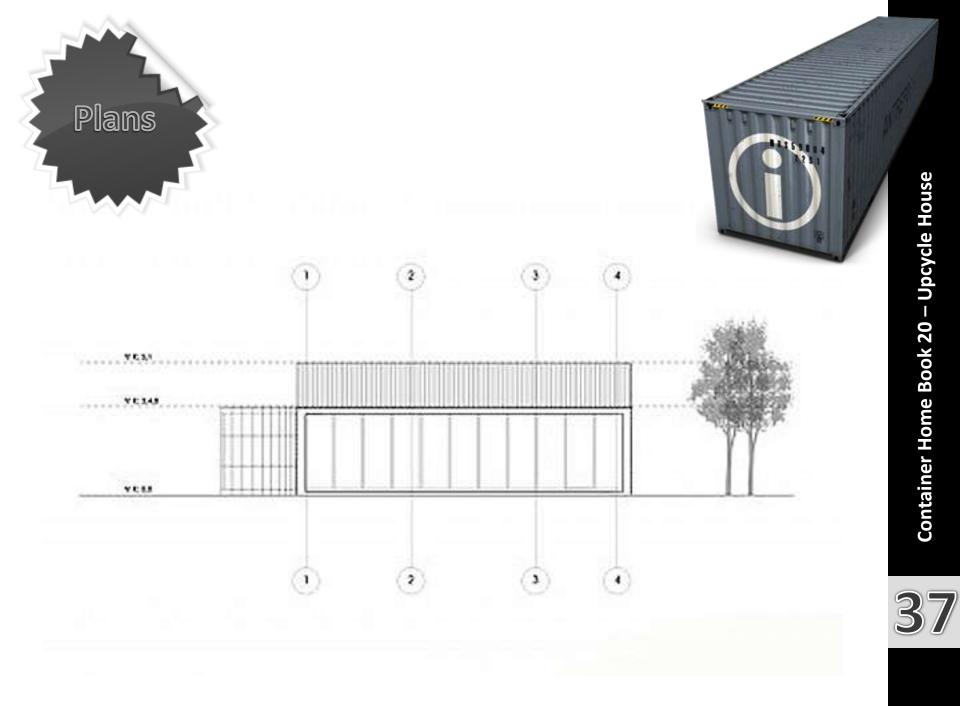
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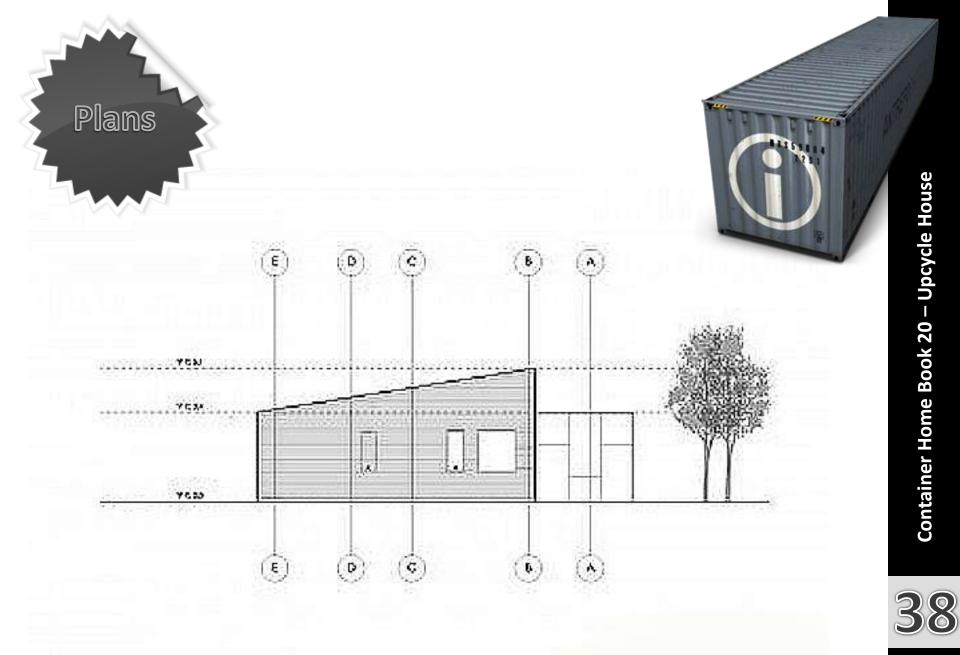


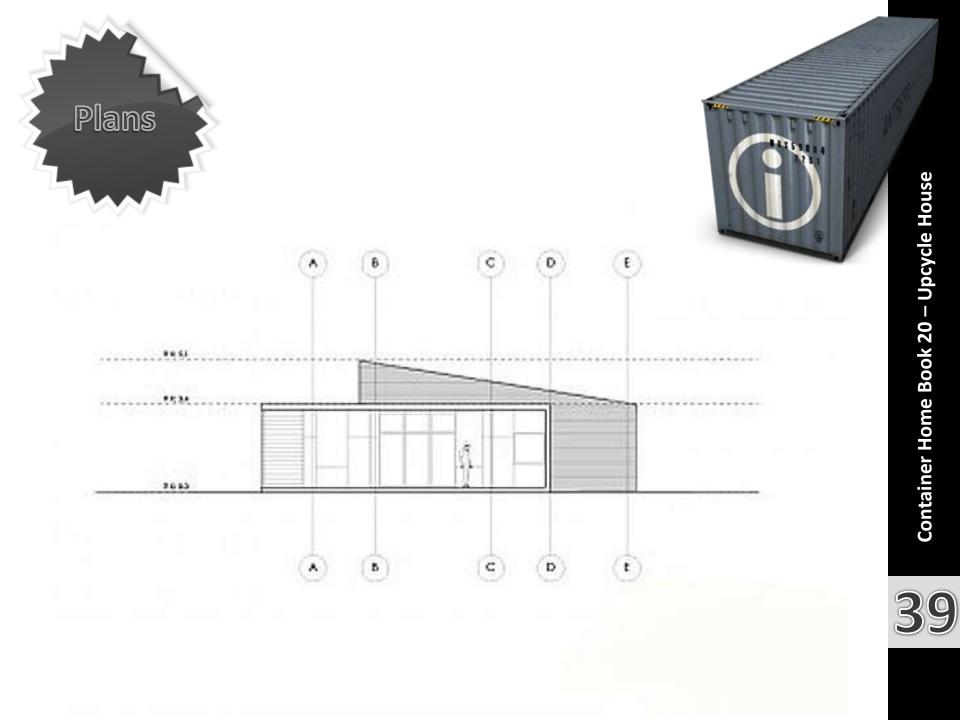


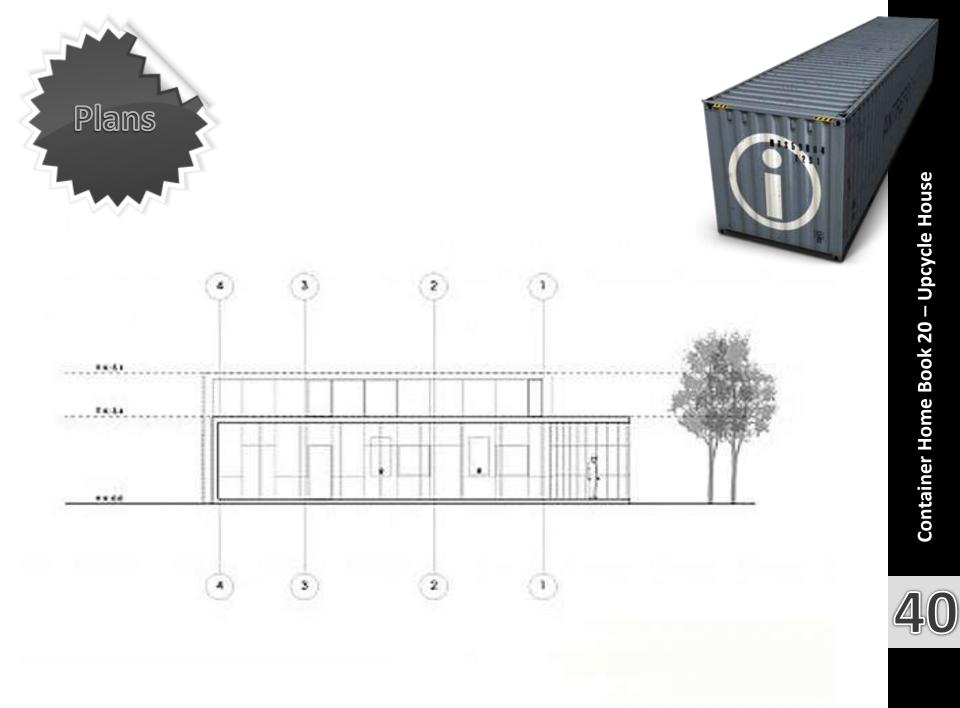




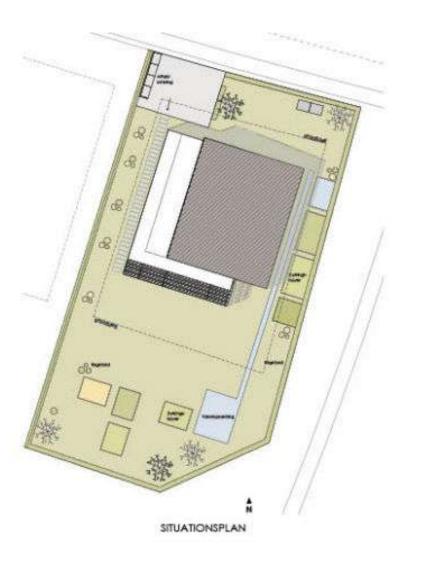






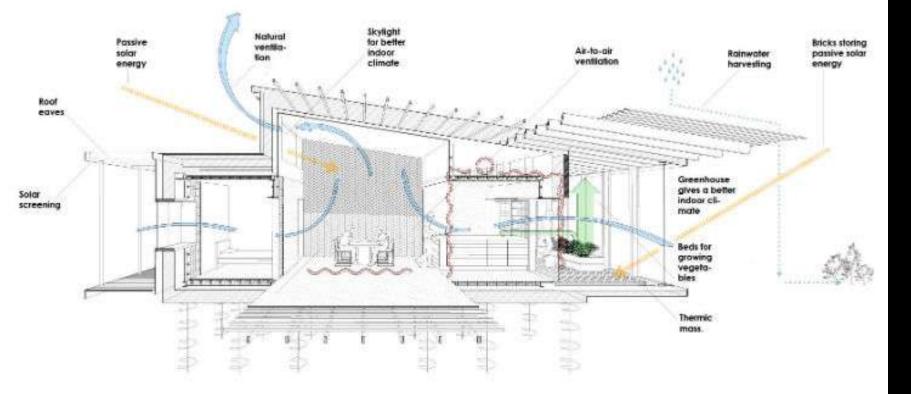




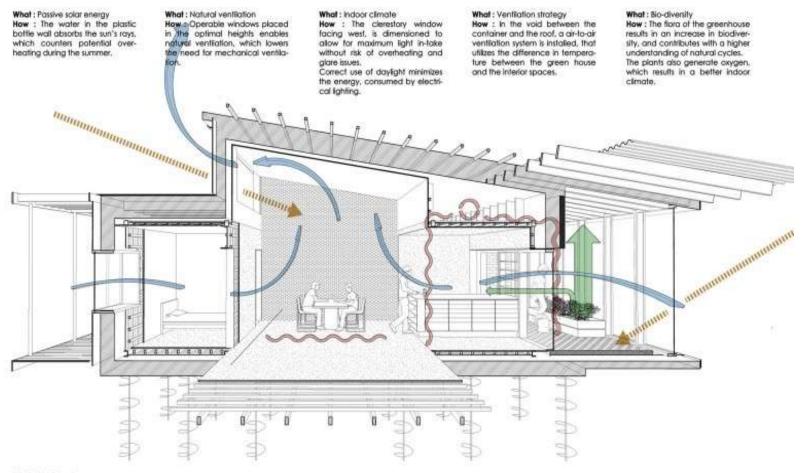












What: Roof overhang

How : The raof overhang around the house provides covered outdoor areas, making them useable for bigger parts of the year. The overhan also shields the facade from the rain, so maintainance costs are kept low.

What: Shading

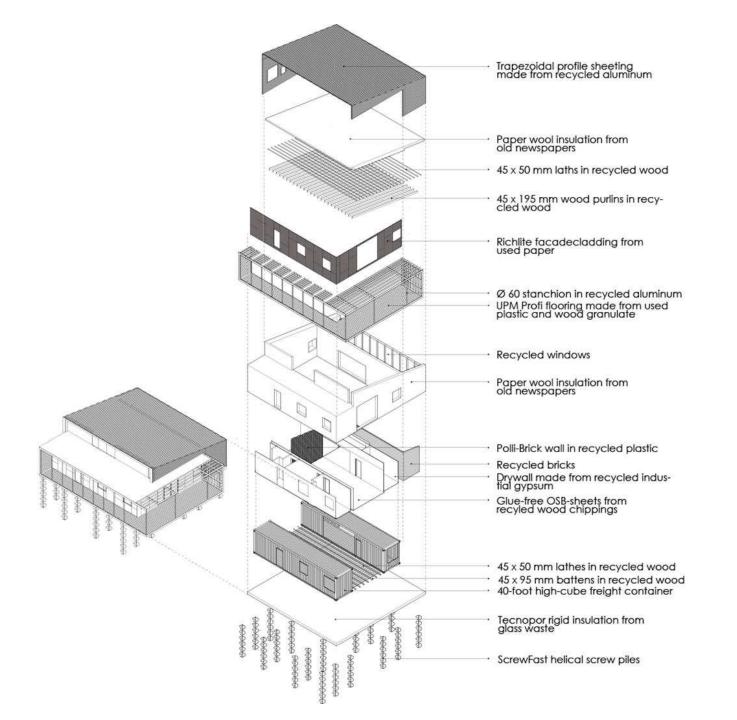
How : The roof overhang protects the house from solar rays, so the risk of overheating is minimized during the summer.

What: Thermal mass

How : The greenhouse is clad with recycled bricks, that function as thermal mass. The bricks are heated by the sun, and the excess temperature in the greenhouse can be tapped, when the overall temperature of the house has drapped.

What: Homegrown

How : The east-facing greenhouse allows for homegrown produce, which lowers the need for storebought food and has a posifive impact on the family's economy.





Video 4 in our series of 15 "How to Build a Container Home" Video Tutorials looks the 10 biggest mistakes people make when building a Container Home.

Click here to Watch Video 4 of 15



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