

Pilot Plan Amphibian Housing as Solution to the Problem of Floods

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Abstract

1. Aut-Ark developed in 2012 a sustainable, self-sufficient floating home, based on the Passive house concept. Ikea had adopted the dwelling, and designed the interior with their sustainable products. This prototype is built of EPS.

2. Aut-Ark developed in 2013 in cooperation with SGS a sustainable foam concrete to make floating hulls. This Aut-Ark Foam concrete® is 100% recyclable, easy to produce even on the most inconvenient places of the world. This product has a SGS- quality certificate .

3. Because of the floods of 2010 in Latin America, for this specific case in La Mojana-Sucre Colombia., were sought different solutions than palafitic dwellings, because in the area they could not be built as they passed the flood quota.

For this Reason Aut-Ark BV and the Colombian government spoke in 2014 to seek a solution to the problem because of the floods in 2010.

The self-sustainable amphibious social housing of Aut-Ark is not only an economic solution, but also a good solution for the environment and makes the dwelling a decent habitat space for low-income people.

A pilot 150 amphibian dwellings should be started in the village Orejero in the La Mojana area. Till now nothing has been built by internal troubles.

4. By the umbrella as metaphor, in 2017 Aut-Ark developed an innovative building system to build floating and amphibian hulls much easier with lower costs

A foil as mould will be kept in shape by the steel construction which is in the meantime the concrete reinforcement.

Unique Selling Points are : building and production on location, no heavy transports or cranes

Keywords:

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