ECOWALL - NOVEL COMPOSITE CONCRETE INSULATED BUILDING MATERIALS OPTIMISED

ECOWALL

Many family homes are built with bricks and concrete block walls – a process which needs a lot of energy and raw materials. EcoWall aims to reduce those requirements and associated environmental impacts by producing modular composite concrete panels that offer savings in construction costs and improved thermal insulation. EcoWall will use industrial waste materials and recycled concrete aggregates to make the panels. Foamed concrete will provide insulation, which in turn will save energy. The objective is to produce a long-lasting and durable product which retains the attractive appearance of traditional materials.

Results

- The project will establish a pilot plant in Estonia to start production. Initially, the plant will make 100,000 m² of wall panels annually.
- Taking account of construction and use over a 50-year period, a single family home built using the EcoWall panels can expect to achieve energy savings of more than 1,840 GJ and a reduction in CO2 of 111 tonnes.

Partners and coordinator

<table>
<thead>
<tr>
<th>Partner</th>
<th>Country</th>
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<tbody>
<tr>
<td>Ardoran Ltd</td>
<td>Estonia</td>
</tr>
<tr>
<td>Luca, Dr Luca &amp; Partner Engineering Ltd</td>
<td>Germany</td>
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</tbody>
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Contact

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Contact point

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Budget

Overall budget: 1.574.334,00 € (EU contribution: 50,00 %)

In brief

Sector: Buildings and Construction

Duration: 01/10/2010 to 30/09/2013

Contract number: ECO/09/256190

Website: http://www.xx

Tags:

building
composite materials
concrete
eco-product
insulation
recycling

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