HOMES Key INsulating material

Fact Sheet

Project Information

HOMESKIN
Grant agreement ID: 636709

Project website

Start date 1 February 2015
End date 31 January 2018

Funded under H2020-EU.2.1.5.2.
Overall budget € 6 291 529,38
EU contribution € 4 517 567

Coordinated by PCAS
France

Objective

The Advanced Aerogel-Based Composite (AABC) materials are a unique new class of materials. The HOMESKIN project aims at developing a new silica Advanced Aerogel-Based Composite material possessing the lowest thermal conductivity of all insulation materials found in the market. The proposed solution will bring to the market new insulation technologies that do not only possess very high thermal insulation performance but also are thinner, lighter, non flammable, and with lower CO2 and VOC emissions. The new material developed can be applied to new buildings as well as for old buildings retrofit applications. Among our objectives in this project are to develop more sustainable construction with lower embodied energy, and develop healthy, fire resistant and moisture controlled insulating layers, as well as eco-innovative binders and adhesives, to enhance the durability and reduce maintenance costs, and to demonstrate the energy and health efficiency of building envelopes based on such new materials. The HOMESKIN project shall bring key contributions to the very high performance insulation standards and policies. Different tasks will be carried out by the partners involved. One part of the work is dedicated to
the material development. This material will become the basis for the development of the insulation systems. Coatings and interface materials will be developed according to the AABC integration in the insulation systems solutions (for inside, outside, singular points and thermal bridges insulation applications). These advanced insulating systems will be assessed to validate their acoustical, thermal, hygrothermal, fire safety, and VOC emissions properties. A life cycle analysis will also be performed. The performances of these solutions will then be tested on buildings under real weather conditions, from Passys cells to houses in different European regions and finally to a public authority infrastructure.

Field of science

/engineering and technology/civil engineering/architecture engineering/sustainable architecture/sustainable building

Programme(s)

Topic(s)

Call for proposal

H2020-EeB-2014

Funding Scheme

IA - Innovation action

Coordinator

PCAS

Address
21 Chemin De La Sauvegarde
21 Ecully Parc
69134 Ecully
France

Activity type
Private for-profit entities
(excluding Higher or Secondary Education Establishments)

EU contribution
€ 989 050,12

Website

Contact the organisation
UNIVERSITAET STUTTGART

Germany

EU contribution

€ 598 000

Address

Keplerstrasse 7
70174 Stuttgart

Activity type

Higher or Secondary Education Establishments

Website

Contact the organisation

INSTITUT DE TECNOLOGIA DE LA CONSTRUCCION DE CATALUNYA

Spain

EU contribution

€ 452 975

Address

Calle Wellington 19
08018 Barcelona

Activity type

Other

Contact the organisation

ASSOCIATION POUR LA RECHERCHE ET LE DEVELOPPEMENT DES METHODES ET PROCESSUS INDUSTRIELS

France

EU contribution

€ 250 505,63

Address

Boulevard Saint Michel 60
75272 Paris

Activity type

Research Organisations

Website

Contact the organisation

TROCELLEN ITALIA SPA

Italy

EU contribution

€ 513 625

Address

Via Della Chimica 23
20867 Caponago

Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)
<table>
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<tr>
<th>Organisation Name</th>
<th>Country</th>
<th>EU Contribution</th>
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<td>PAREXGROUP MORTEROS SA</td>
<td>Spain</td>
<td>€ 659,093.75</td>
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<td>COMMISSARIAT A L ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES</td>
<td>France</td>
<td>€ 500,005</td>
<td>Rue Leblanc 25 75015 Paris 15</td>
<td>Research Organisations</td>
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<tr>
<td>SORANE SA</td>
<td>Switzerland</td>
<td>€ 0</td>
<td>Route De Bois 37 1024 Ecublens</td>
<td>Private for-profit entities (excluding Higher or</td>
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WAVESTONE LUXEMBOURG SA

Luxembourg

€ 119 000

Address
10 Rue Du Chateau D'eau
3364 Leudelange

Activity type
Private for-profit entities (excluding Higher or Secondary Education Establishments)

Website
Contact the organisation

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