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

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

EU contribution
€ 989 050,12

Participants (0)
UNIVERSITAET STUTTGART

Germany

EU contribution

€ 598 000

Address

Keplerstrasse 7
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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

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Activity type

Research Organisations

Website

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TROCELLEN ITALIA SPA

Italy

EU contribution

€ 513 625

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Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)
PAREXGROUP MORTEROS SA
Spain
EU contribution
€ 659 093.75

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Calle Italia 13-21 - Poligono Industrial Pla Llerona
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Activity type
Private for-profit entities (excluding Higher or Secondary Education Establishments)

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FLAG SPA
Italy
EU contribution
€ 435 312.50

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

Contact the organisation

COMMISSARIAT A L ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES
France
EU contribution
€ 500 005

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Activity type
Research Organisations

Website
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SORANE SA
Switzerland
EU contribution
€ 0

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Activity type
Private for-profit entities (excluding Higher or
WAVESTONE LUXEMBOURG SA

Luxembourg

EU contribution
€ 119 000

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

Website
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