

New modular construction system based on panels fixed to each other and pieces of heavy wooden framework.



The project aims to develop new models of prefabricated ultra-lightweight panels consisting of a combination of solid wood products, wood-based products and the use of thermal and acoustic insulation. The application of a tongue and groove system to assemble panels to each other and solid pieces of traditional heavy wooden framework, emulating a semi-heavy framework, will allow the development of a new innovative construction system aimed at modular construction, quick assembly and with enormous versatility and adaptation to different designs and types of construction.

Just started

The structural characterisation of the panels will be carried out by means of mechanical laboratory tests, as well as thermal, acoustic and watertightness characterisation by analytical means.

DETALHES

ORIGEM DA MADEIRA

Floresta

TIPO DE MADEIRA

Tronco

POTENCIAL DE MOBILIZAÇÃO

5-10 m3 / building

SUSTENTABILIDADE POTENCIAL - VALOR

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TIPO DE MADEIRA EM CAUSA

Sawn timber, glued laminated timber, wood-cement boards, particle boards, OSB

FACILIDADE DE IMPLEMENTAÇÃO

Difficult

IMPACTE NO AMBIENTE E BIODIVERSIDADE

Positive

FACILIDADE DE IMPLEMENTAÇÃO

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IMPACTE NAS RECEITAS

Positive: decreased building time

PRE-REQUISITOS CHAVE

Building quality lightly decreased

POTENCIAL DE EXPLORAÇÃO

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TIPO DE EVENTO EM QUE ESTE BPI TEM SIDO APRESENTADO

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HUB

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IMPACTE NO EMPREGO

Positive: increased efficiency of materials

IMPACTE ECONOMICO

Possibility of modular construction

CUSTOS DE IMPLEMENTAÇÃO (EURO - EUR)

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CONHECIMENTOS ESPECIFICOS NECESSÁRIOS

None

MAIS DETALHES

DESAFIO ABORDADO

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PALAVRAS-CHAVE

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PAÍS DE ORIGEM

Espanha

DOMÍNIO

Industria da madeira para construção

SOLUÇÃO DIGITAL

Não

ESCALA DE APLICAÇÃO

Nacional

TIPO DE SOLUÇÃO

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INOVAÇÃO

Sim

ANO DE INÍCIO E FIM

2018 - 2020

DADOS DE CONTACTO

PROPRIETÁRIO OU AUTOR

REPÓRTER

amatex@amatex.es

REFERENCES AND RESOURCES

WEBSITE PRINCIPAL

<http://www.amatex.es>

WEBSITE DO PROJETO

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REFERÊNCIA AO PROJETO

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RECURSOS

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PROJETO NO ÂMBITO DO QUAL A FOLHA DE DIVULGAÇÃO FOI CRIADA

Rosewood

DATA DE ENTRADA

13 Set 2019



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