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

TIPO DE MADEIRA EM CAUSA

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

IMPACTE NO AMBIENTE E BIODIVERSIDADE

Positive

IMPACTE NAS RECEITAS

Positive: decreased building time

POTENCIAL DE EXPLORAçãO

--

HUB

--

IMPACTE ECONOMICO

Possibility of modular construction

CONHECIMENTOS ESPECIFICOS NECESSáRIOS

None

POTENCIAL DE MOBILIZAçãO

5-10 m3 / building

SUSTENTABILIDADE POTENCIAL - VALOR

--

FACILIDADE DE IMPLEMENTAçãO

Difficult

FACILIDADE DE IMPLEMENTAçãO

--

PRE-REQUISITOS CHAVE

Building quality lightly decreased

TIPO DE EVENTO EM QUE ESTE BPI TEM SIDO APRESENTADO

--

IMPACTE NO EMPREGO

Positive: increased efficiency of materials

CUSTOS DE IMPLEMENTAçãO (EURO - EUR)

--

MAIS DETALHES

DESAFIO ABORDADO

--

DOMíNIO

Industria da madeira para construção

TIPO DE SOLUçãO

--

PALAVRAS-CHAVE

--

SOLUçãO DIGITAL

Não

INOVAçãO

Sim

PAíS DE ORIGEM

Espanha

ESCALA DE APLICAçãO

Nacional

ANO DE INíCIO E FIM

2018 - 2020

DADOS DE CONTACTO

PROPRIETáRIO OU AUTOR

amatex@amatex.es

REPóRTER

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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