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.

DETALJER

VEDENS URSPRUNG
Skog

TRäTYP
Rundvirke

TYP AV TRä
Sawn timber, glued laminated timber, wood-cement boards, particle boards, OSB

PåVERKAN På MILJö & BIOLOGISK MåNGFALD
Positive

EKONOMISK EFFEKT
Positive: decreased building time

KOMMERSIELL POTENTIAL
--

NAV
--

EKONOMISK PåVERKAN
Possibility of modular construction

SPECIFIKA KUNSKAPSBEHOV
None

MOBILISERINGSPOTENTIAL
5-10 m3 / building

HåLLBARHETS POTENTIAL - VäRDE
--

ENKEL IMPLEMENTERING
Difficult

ENKEL IMPLEMENTERING - UTVäRDERING
--

NYCKEL FöRUTSäTTNINGAR
Building quality lightly decreased

TYP AV EVENEMANG DäR DENNA BPI HAR PRESENTERATS
--

EFFEKT ANTAL ANSTäLLDA
Positive: increased efficiency of materials

KOSTNADER FöR IMPLEMENTERING (EURO - €)
--

MER INFORMATION

UTMANING SOM ADRESSERAS

--

DOMäN

Industri for träbyggnation

TYPE AV LöSNING

--

NYCKELORD

--

DIGITAL LöSNING

Nej

INNOVASION

Ja

UPPHOVSLAND

Spanien

POTENTIAL

Nationell

START OCH SLUTåR

2018 - 2020

KONTAKT INFORMASION

ÄGARE ELLER FöRFATTARE

RAPPORTöR

amatex@amatex.es

REFERENCES AND RESOURCES

HEMSIDA (HUVUDSIDA)

http://www.amatex.es

RESURSER

--

PROJEKTETS HEMSIDA

--

PROJEKTREFERENS

--

PROJEKT SOM DETTA FACTSHEET SKAPATS INOM

Rosewood

DATUM FöR INLäGG

13 sep 2019

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 862681

A TOOL FROM ROSEWOOD 4.0, DESIGNED AND DEVELOPED BY