# 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.

## DETALII

SURSA DE LEMN

Pădure

TIPUL DE LEMN

Lemn masiv

TIPUL DE LEMN îN CAUZă

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

IMPACTUL ASUPRA MEDIULUI șI BIODIVERSITățII

Positive

EFECT ASUPRA VENITURILOR

Positive: decreased building time

POTENțIAL DE EXPLOATARE

--

HUB

--

IMPACT ECONOMIC

Possibility of modular construction

CUNOșTINțE SPECIFICE NECESARE

None

POTENțIALUL DE MOBILIZARE

5-10 m3 / building

POTENțIAL DE SUSTENABILITATE - VALOARE

--

FACILITATEA DE IMPLEMENTARE

Difficult

FACILITATEA DE IMPLEMENTARE - EVALUARE

--

CONDIțII CHEIE PREALABILE

Building quality lightly decreased

TIPUL DE EVENIMENT LA CARE A FOST PREZENTAT ACEST IPB

--

EFECT ASUPRA LOCURILOR DE MUNCă

Positive: increased efficiency of materials

COSTURI PENTRU IMPLEMENTARE (EURO - €)

--

## MAI MULTE DETALII

PROVOCARE ABORDATă

--

DOMAIN

Industria construcțiilor din lemn

TIP DE SOLUțIE

--

CUVINTE CHEIE

--

SOLUțIE DIGITALă

Nu

INOVAțIE

Da

ȚARA DE ORIGINE

Spania

SCARA DE APLICARE

Național

ANUL DE îNCEPUT șI DE SFâRșIT

2018 - 2020

## DATE DE CONTACT

PROPRIETAR SAU AUTOR

amatex@amatex.es

REPORTER

## REFERENCES AND RESOURCES

PAGINă WEB

http://www.amatex.es

WEBSITE PROJECT

--

REFERINță PROIECT

--

RESURSE

--

PROIECTUL îN CADRUL CăRUIA A FOST CREATă ACEASTă FIșă INFORMATIVă

Rosewood

DATA POSTăRII

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