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.

DETAILS

HERKUNFT DES HOLZES
Wald

ART DES HOLZES
Stammholz

ART DES BETROFFENEN HOLZES
Sawn timber, glued laminated timber, wood-cement boards, particle boards, OSB

AUSWIRKUNGEN AUF UMWELT UND BIODIVERSITäT
Positive

EINKOMMENSEFFEKT
Positive: decreased building time

VERWERTUNGSPOTENZIAL
--

NABE
--

WIRTSCHAFTLICHE AUSWIRKUNGEN
Possibility of modular construction

SPEZIFISCHES WISSEN ERFORDERLICH
None

MOBILISIERUNGSPOTENZIAL
5-10 m3 / building

POTENZIAL FüR NACHHALTIGKEIT - WERT
--

LEICHTE IMPLEMENTIERUNG
Difficult

LEICHTE IMPLEMENTIERUNG - BEWERTUNG
--

WICHTIGE VORAUSSETZUNGEN
Building quality lightly decreased

ART DER VERANSTALTUNG, AUF DER DIESE BPI VORGESTELLT WURDE
--

ARBEITSPLATZEFFEKT
Positive: increased efficiency of materials

KOSTEN DER IMPLEMENTIERUNG (EURO - €)
--

MEHR DETAILS

ANGESPROCHENE HERAUSFORDERUNG

--

SCHLüSSELWöRTER

--

HERKUNFTSLAND

Spanien

DOMäNE

Holzbau-Industrie

DIGITALE LöSUNG

Nein

UMFANG DER ANWENDUNG

National

ART DER LöSUNG

--

INNOVATION

Ja

ANFANGS- UND ENDJAHR

2018 - 2020

KONTAKTDATEN

EIGENTüMER ODER AUTOR

amatex@amatex.es

REPORTER

REFERENCES AND RESOURCES

HAUPT-WEBSITE

http://www.amatex.es

PROJEKT-WEBSITE

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PROJEKT-REFERENZ

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RESSOURCEN

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PROJEKT, IN DESSEN RAHMEN DIESES FACTSHEET ERSTELLT WURDE

Rosewood

BEITRAGSDATUM

13 Sep 2019

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Link to Rosewood 4.0

A TOOL FROM ROSEWOOD 4.0, DESIGNED AND DEVELOPED BY