

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

MOBILISIERUNGSPOTENZIAL

5-10 m³ / building

ART DES BETROFFENEN HOLZES

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

OSB

LEICHTE IMPLEMENTIERUNG

Difficult

AUSWIRKUNGEN AUF UMWELT UND BIODIVERSITÄT

Positive

LEICHTE IMPLEMENTIERUNG - BEWERTUNG

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EINKOMMENSEFFEKT

Positive: decreased building time

WICHTIGE VORAUSSETZUNGEN

Building quality lightly decreased

VERWERTUNGSPOTENZIAL

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ART DER VERANSTALTUNG, AUF DER DIESE BPI VORGESTELLT WURDE

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NABE

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ARBEITSPLATZEFFEKT

Positive: increased efficiency of materials

WIRTSCHAFTLICHE AUSWIRKUNGEN

Possibility of modular construction

KOSTEN DER IMPLEMENTIERUNG (EURO - €)

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SPEZIFISCHES WISSEN ERFORDERLICH

None

MEHR DETAILS

ANGESPROCHENE HERAUSFORDERUNG	DOMÄNE	ART DER LÖSUNG
--	Holzbau-Industrie	--
SCHLÜSSELWÖRTER	DIGITALE LÖSUNG	INNOVATION
--	Nein	Ja
HERKUNFTSLAND	UMFANG DER ANWENDUNG	ANFANGS- UND ENDJAHR
Spanien	National	2018 - 2020

KONTAKTDATEN

EIGENTÜMER ODER AUTOR REPORTER

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REFERENCES AND RESOURCES

HAUPT-WEBSITE	RESSOURCEN
http://www.amatex.es	--
PROJEKT-WEBSITE	
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PROJEKT-REFERENZ	
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PROJEKT, IN DESSEN RAHMEN DIESES FACTSHEET ERSTELLT WURDE

Rosewood

BEITRAGSDATUM

13 Sep 2019



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