

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

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### 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

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### NABE

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### WIRTSCHAFTLICHE AUSWIRKUNGEN

Possibility of modular construction

### SPEZIFISCHES WISSEN ERFORDERLICH

None

### MOBILISIERUNGSPOTENZIAL

5-10 m<sup>3</sup> / building

### POTENZIAL FÜR NACHHALTIGKEIT - WERT

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### LEICHTE IMPLEMENTIERUNG

Difficult

### LEICHTE IMPLEMENTIERUNG - BEWERTUNG

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### WICHTIGE VORAUSSETZUNGEN

Building quality lightly decreased

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

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### ARBEITSPLATZEFFEKT

Positive: increased efficiency of materials

### KOSTEN DER IMPLEMENTIERUNG (EURO - €)

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## MEHR DETAILS

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### ANGESPROCHENE HERAUSFORDERUNG

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### SCHLÜSSELWÖRTER

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### HERKUNFTSLAND

Spanien

### DOMÄNE

Holzbau-Industrie

### DIGITALE LÖSUNG

Nein

### UMFANG DER ANWENDUNG

National

### ART DER LÖSUNG

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### INNOVATION

Ja

### ANFANGS- UND ENDJAHR

2018 - 2020

## KONTAKTDATEN

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### EIGENTÜMER ODER AUTOR

amatex@amatex.es

### REPORTER

## REFERENCES AND RESOURCES

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### 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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**A TOOL FROM ROSEWOOD 4.0, DESIGNED AND DEVELOPED BY**

