

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.

## PODROBNOSTI

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### PÔVOD DREVA

Les

### DRUH DREVA

Kmeňové drevo

### UVAŽOVANÝ DRUH DREVA

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

### VPLYV NA ŽIVOTNÉ PROSTREDIE A BIODIVERZITU

Positive

### DOPAD NA PRÍJMY

Positive: decreased building time

### POTENCIÁL VYUŽITIA

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### ROZBOČOVAČ

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### EKONOMICKÝ VPLYV

Possibility of modular construction

### POTREBA ŠPECIFICKÝCH ZNALOSTÍ

None

### MOBILZAČNÝ POTENCIÁL

5-10 m3 / building

### POTENCIÁL UDRŽATEĽNOSTI - HODNOTA

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### UĽAHČENIE IMPLMENTÁCIE

Difficult

### UĽAHČENIE IMPLMENTÁCIE - HODNOTENIE

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### Kľúčové PREPOKLADY

Building quality lightly decreased

### TYP PODUJATIA, NA KTOROM BOL TENTO BPI PREZENTOVANÝ

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### DOPAD NA ZAMESTNANOSŤ

Positive: increased efficiency of materials

### NÁKLADY NA IMPLEMENTÁCIU (EURO - €)

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**VIAC  
INFORMÁCIÍ**

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**RIEŠENÁ VÝZVA**

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**Kľúčové SLOVÁ**

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**KRAJINA PôVODU**

Španielsko

**DOMAIN**

Odvetvie drevených konštrukcií

**DIGITALNE RIEŠENIE**

Nie

**ROZSAH APLIKÁCIE**

Národný

**TYP RIEŠENIA**

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**INOVÁCIE**

Áno

**ZAČIATOK A KONIEC ROKA**

2018 - 2020

**KONTAKTNÉ  
ÚDAJE**

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**VLASTNÍK ALEBO AUTOR**

**REPORTÉR**

amatex@amatex.es

**REFERENCES  
AND RESOURCES**

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**HLAVNÁ WEBSTRÁNKA**

<http://www.amatex.es>

**PROJEKTOVÁ WEBSTRÁNKA**

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**REFERENCIA PROJEKTU**

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**ZDROJE**

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A TOOL FROM ROSEWOOD 4.0, DESIGNED AND DEVELOPED BY

