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

IZVOR LESA

Gozd

TIP LESA

Okrogli les

VRSTA OBRAVNAVANEGA LESA

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

VPLIV NA OKOLJE IN BIODIVERZITETO

Positive

VPLIV NA PRIHODKE

Positive: decreased building time

POTENCIAL IZKORIŠČANJA

--

VOZLIŠČE

--

GOSPODARSKI VPLIV

Possibility of modular construction

POTREBNO SPECIFIČNO ZNANJE

None

POTENCIAL ZA MOBILIZACIJO

5-10 m3 / building

TRAJNOST - VREDNOST

--

ENOSTAVNOST IZVEDBE

Difficult

ENOSTAVNOST IZVEDBE - OCENJEVANJE

--

KLJUČNI PREDPOGOJI

Building quality lightly decreased

VRSTA DOGODKA, NA KATEREM JE BIL PREDSTAVLJEN TA BPI

--

VPLIV NA DELOVNA MESTA

Positive: increased efficiency of materials

STROŠKI IZVEDBE (EURO - €)

--

VEČ PODROBNOSTI

IZZIV

--

DOMENA

Lesena gradnja

TIP REŠITVE

--

KLJUČNE BESEDE

--

DIGITALNE REŠITVE

No

INOVACIJA

Da

IZVORNA DRŽAVA

Španija

OBSEG UPORABE

Nacionalni

ZAČETNO IN KONČNO LETO

2018 - 2020

KONTAKTN PODATKI

LASTNIK OZ. AVTOR

amatex@amatex.es

POROČEVALEC

REFERENCES AND RESOURCES

SPLETNA STRAN

http://www.amatex.es

VIRI

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SPLETNA STRAN PROJEKTA

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REFERENCA PROJEKTA

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PROJEKT, V OKVIRU KATEREGA SO BILI ZBRANI OSNOVNI PODATKI

Rosewood

DATUM OBJAVE

13 Sep 2019

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