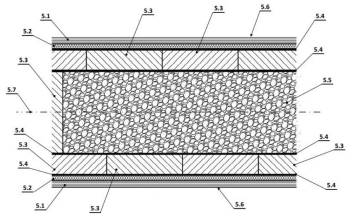
Innovative massive doors



Slika 5.

Innovative massive front door made of reinforced and stabilized oak panel used for general use and construction

The subject invention relates to a technical solution for reinforcing oak panels/slabs where one tries to avoid or reduce the phenomenon of deformation that occurs in differential climate conditions due to different levels of moisture and temperature on certain sides of panels/slabs/doors. This phenomenon is especially present in wooden front doors, but also in other wood products that are located between different climatic conditions. As a result of testing and collected data on deformations, a reinforced and stabilized oak board for general use and construction was constructed as a solution to a technical problem. The middle layer of this panel is made of a frame made of oak elements with insulation material, which is covered with an oak panel on both sides. Between the solid oak board and the oak sticker, a pre-stressed cloth made of glass or carbon fibers is inserted. This technical solution is particularly suitable for use at the boundaries of external and internal use systems (exterior/interior), i.e. in conditions of exposure to differential climate, because the reinforcements in the sublayer allow the migration of moisture and thereby result in negligible deformations of the product. This is especially practical for elements of larger formats, e.g. 1200×2600 mm, where the finished products are placed vertically (entrance doors, facade cladding elements, advertising panels,...), and especially if the direction of the wood fibers is turned horizontally (that is, where the dominant swelling and weighting of wood in width).

MER INFORMATION

UTMANING SOM ADRESSERAS

6. Odla den skogsbaserade bioekonomin genom cirkulär användning och mervärdesprodukter

DOMäN

Forskning och utveckling

TYPE AV LöSNING

Cirkulära, biobaserade produkter

NYCKELORD

oak; massive; reinforced; stabilized

DIGITAL LöSNING

Nej

INNOVASION

Ja

UPPHOVSLAND

Kroatien

POTENTIAL

Gränsöverskridande/transnationell

START OCH SLUTåR

2018 - 2022

KONTAKT INFORMASION

ÄGARE ELLER FöRFATTARE

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REFERENCES AND RESOURCES

HEMSIDA (HUVUDSIDA)

https://spacva.eu

RESURSER

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PROJEKTETS HEMSIDA

https://spacva.eu/eu-projects/eu-project-spacva-d-d

PROJEKTREFERENS

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LOGO FöR BEST PRACTICE

LOGO, HUVUDORGANISATION

SPAČVA

PROJEKT SOM DETTA FACTSHEET SKAPATS INOM

Rosewood 4.0

DATUM FöR INLäGG

24 mar 2023

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A TOOL FROM ROSEWOOD 4.0, DESIGNED AND DEVELOPED BY

cesefor
Centro de Servicios y Promoción Forestal y de su Industria de Castilla y León