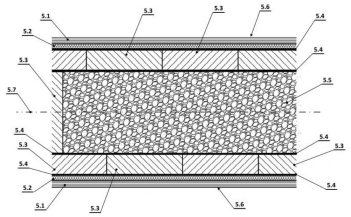
Innovative massive doors



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).

VIAC INFORMáCIí

RIEšENá VýZVA

6. Rozvoj lesného biohospodárstva prostredníctvom obehového využívania a produktov s pridanou hodnotou

DOMAIN

Výskum a vývoj

TYP RIEšENIA

Obehové, bioprodukty

KľúčOVé SLOVá

oak; massive; reinforced; stabilized

DIGITALNE RIEšENIE

Nie

INOVáCIE

Áno

KRAJINA PôVODU

Chorvátsko

ROZSAH APLIKáCIE

Cezhraničný/multilaterálny

ZAČIATOK A KONIEC ROKA

2018 - 2022

KONTAKTNé úDAJE

VLASTNíK ALEBO AUTOR

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REFERENCES AND RESOURCES

HLAVNá WEBSTRáNKA

https://spacva.eu

ZDROJE

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PROJEKTOVá WEBSTRáNKA

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

REFERENCIA PROJEKTU

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LOGO NAJLPEŠEJ PRAXE

LOGO HLAVNEJ ORGANIZáCIE

SPAČVA

PROJEKT, V RáMCI KTORéHO BOL TENTO INFORMAčNý PREHľAD VYTVORENý

Rosewood 4.0

DáTUM ODOSLANIA

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