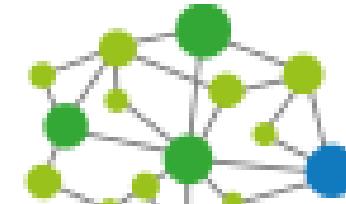


Development of visual and mechanical sorting tools for the enhancement of structural sawn timber



ROSEWOOD
4.0 Sustainable Wood
for Europe

Structural sawn timber intended for construction must offer similar guarantees to those offered by other materials and products intended for the structural construction sector. For this purpose, it is necessary to develop classification tools that allow manufacturers and marketers to certify the strength and stiffness values of all the wood that is placed on the market (adjusted to the species and origin that corresponds).

It is, in addition to being a legal obligation, a tool for the valuation of wood that is enabling a competitive improvement of its industrial network.

Technological development of structural sawn timber not only enables it to be directly promoted in the construction sector as a construction element, but also to be incorporated into the manufacture of technological products with high added value, such as glued laminated timber, duos, trios, CLT, prefabricated panels... These are high value-added products that require high levels of competitiveness that cannot be achieved without their main raw material, structural sawn timber, increasing its competitiveness, optimising its manufacturing times and its declared mechanical properties

Visual classification tools have been developed for the main commercial wood species found in Spanish forest stands, such as *Pinus sylvestris*, *Pinus insigne*, *Pinus nigra*, *Pinus pinaster*, *Abies alba*, *Pseudotsuga menziesii*, *Quercus rubra*, *Castanea sativa* and *Eucalyptus globulus*. Tools that in many cases enable the possibility of classifying structural sawn timber into three structural qualities, which allows the different qualities of wood that the timber industry places on the construction market to be classified and valued.

Mechanical classification systems are currently being developed for the main species of the *Pinus* genus. This is one more step in the competitive improvement of this type of wood, as it improves the classification times and the classifying performance in the different mechanical qualities.

Both developments have enhanced the value of the wood of the different wood species characterized, and have promoted its use in construction.

SZCZEGÓŁY

POCHODZENIE SUROWCA DRZEWNEGO

Przemysł

RODZAJ SUROWCA DRZEWNEGO

Drewno okrągłe

POTENCJAŁ DLA MOBILIZACJI DREWNA

300,000 m³

RODZAJ DREWNA

Pinus sylvestris, Pinus nigra, Pinus radiata, Pinus pinaster, Pseudotsuga menziesii, Larix sp, Quercus rubra, Abies alba

ŁATWOŚĆ WDROŻENIA

Very easy

WPŁYW NA ŚRODOWISKO I BIORÓŻNORODNOŚĆ

Positive, it mobilizes wood with a proper forest management

ŁATWOŚĆ WDROŻENIA - OCENA

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EFEKTY EKONOMICZNE

Positive, more quality timber is mobilized

KLUCZOWE WYMAGANIA

Experience on manufacturing and classification of structural timber

POTENCJAŁ W ZAKRESIE KOMERCYALIZACJI

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RODZAJ WYDARZENIA, W KTÓRYM WYSTĄPIŁA DANA BPI

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HUB

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EFEKTY W ZAKRESIE ZATRUDNIENIA

Positive through better competitiveness

WPŁYW NA GOSPODARKĘ

Structural timber value increases in 10€/m³ approximately

KOSZT IMPLEMENTACJI (EURO - €)

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WYMAGANA WIEDZA SPECJALISTYCZNA

Knowledge about Phisical-mechanical properties of wood. Harmonized rules

needed

WIĘCEJ
INFORMACJI

WYZWANIE	DOMENA	RODZAJ ROZWIAZANIA
--	Przemysły drzewne, bio-/ cyrkularna gospodarka	--
	Budownictwo drewniane	
SŁOWA KLUCZOWE	ROZWIAZANIE CYFROWE	INNOWACJA
--	Nie	Nie
KRAJ POCHODZENIA	SKALA APLIKACJI	ROK ROZPOCZĘCIA I ZAKOŃCZENIA
Hiszpania	Krajowa	2011 -

DANE
KONTAKTOWE

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STRONA INTERNETOWA PROJEKTU

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PROJEKT

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PROJEKT, W RAMACH KTÓREGO STWORZONA ZOSTAŁA NINIEJSZA FISZKA
Rosewood

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30 sie 2019



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□