

STRUCTURAL CORK BOARD

1. Description

This product is a single-layer particle board made from natural cork and heather fibers, bonded with a two-component bio-based epoxy resin (adhesive + catalyst), and featuring two natural fiber meshes — one on each face — integrated into the single-layer structure of the board during the hot-pressing process.

The innovation of the board is currently in TRL4 (*Technology Readiness Level 4*).

2. Applications

This product is recommended for construction applications for exterior use as a structural element, as defined by standard UNE EN 13986, with performance characteristics consistent with a P5-type product according to standard UNE EN 312:

- P5: Structural board for use in humid conditions.

3. Specifications

a. Dimensional Characteristics

Dimensional Characteristics		
Parameters	Unity	Results
Length	m	2,50
Width	m	1,25
Thickness	mm	10

b. Physical and Mechanical properties

Physical and Mechanical properties			
Parameters	Test Method	Unity	Results
Moisture	UNE EN 322	%	2 - 5
Density	UNE EN 323	kg/m ³	900 - 1100
Thickness Swelling	UNE EN 317	%	< 5
Tensile Strength	UNE EN 319	N/mm ²	> 1
Bending prop. MOE	UNE EN 310	N/mm ²	> 2550
Bending prop. MOR	UNE EN 310	N/mm ²	> 18

4. Logistics and availability

The EMBEDDED project shall make available up to 20 construction boards to the selected sub-projects, to be allocated in descending order of evaluation score until the available stock is fully exhausted.

Boards are stored in Campillos, Málaga, Spain. All costs, responsibilities, and arrangements related to the collection, handling, transportation, and delivery of the boards from the storage location to the sub-grantees' premises shall be borne exclusively by the sub-grantees.

Boards shall be supplied by units. Sub-grantees shall provide written notice to the EMBEDDED project at least one (1) month in advance of the intended collection date. The EMBEDDED project shall not be held liable for any delays or inability to supply the material where such notice is not duly provided.

Transfer of Risk. The risk of loss of or damage to the boards shall transfer to the sub-grantee at the moment the material is made available for collection at the storage location. From that point onwards, the sub-grantee shall bear all risks and liabilities associated with the handling, loading, transport, storage, and use of the boards, including any loss, damage, or deterioration of the material, regardless of the cause, except in cases of wilful misconduct or gross negligence attributable to the EMBEDDED project.

5. Liability Waiver

To the maximum extent permitted by applicable law, the sub-grantees acknowledge and agree that the boards are provided “as are” and without any express or implied warranties, including but not limited to warranties of merchantability or fitness for a particular purpose. The EMBEDDED project shall not be liable for any direct, indirect, incidental, consequential, or special damages arising out of or in connection with the use, handling, transport, storage, or application of the boards by the sub-grantees or any third party. The sub-grantees shall assume full responsibility for ensuring that the use of the boards complies with all applicable laws, regulations, and safety requirements, and shall indemnify and hold harmless the EMBEDDED project against any claims, damages, or liabilities arising from such use.