

TECHNICAL SHEET



About COCOBOARD®

Cocoboard® is a sustainable, high-performance panel made entirely from coconut husks and a proprietary bio-based adhesive. Developed by NaturLoop, Cocoboard champions environmental innovation by transforming agricultural waste into durable panels with a distinctive natural aesthetic. Designed for both residential and commercial applications, Cocoboard enables creative, toxin-free design with excellent workability, without compromising on strength or indoor air quality.

Applications

Furniture & Storage	Interior Design	Retail & Commercial
Furniture	Wall cladding & decorative panels	Retail displays & fixtures
Tabletops	Decorative partitions & room dividers	
Cabinetry (kitchen & storage)	Ceiling panels (false ceilings)	
Storage units (e.g., wardrobes, shelving systems)	Trim & mouldings	
Doors		

Surface Finishing & Moisture Exposure

Cocoboard is sold unfinished, with a smooth, sanded surface that is ready to receive a wide variety of coatings. For most applications, it is strongly recommended to apply a protective finish such as varnish, wax, or oil to enhance surface durability and moisture resistance.

Cocoboard is moisture-resistant, but not waterproof. It should not be used in areas with direct or prolonged water exposure (e.g., kitchen countertops, bathroom showers) unless fully sealed, including all edges.

Edge sealing is essential for high-humidity environments.

Technical Specifications

All properties listed below are based on internal testing and industry-standard protocols. Testing was conducted according to relevant European Norm (EN) standards for mechanical performance, emissions, and moisture resistance

Thickness	12 mm	EN 324-1
Density	750 kg/m ³	EN 323
Moisture content	5-13%	EN322
Final sanding	120 grain size	-
Bending strength	18-21 N/mm ²	EN310
Modulus of elasticity in bending	1800-1900 N/mm ²	EN310
Internal bond strength	0.7-0.8 N/mm ²	EN319
Swelling in thickness 24h	11-12 %	EN 317
Formaldehyde content	< 0,01 mg HCHO/m ² h	EN ISO 12460-3
Formaldehyde emission	< 0,01 ppm, < Class E1	EN 717-1
Fire reaction*	C-s1, d0	EN 13823 - EN 13501
Face screw hold*	1509 N	EN 320

* Values obtained from tests conducted on 16 mm panels.

Biological Durability

Higher biological resistance than any other wood-based composites (e.g. marine plywood)

- highly resistant to subterranean and drywood termites
- highly resistant to powder-post beetles
- highly resistant to decay fungi

Packaging

Panel dimensions: 1.22 x 2.44 m

Panel thickness: 12mm

Environmental Impact and Certifications

NaturLoop has conducted an initial internal Life Cycle Assessment (LCA) to evaluate the environmental footprint of Cocoboard®. This LCA provides valuable insights but is based on pre-industrial data and will be updated following batch production in September 2025.

Following this, NaturLoop will pursue third-party verification and plans to develop a verified Environmental Product Declaration (EPD) in line with European standards.

Other certifications such as Cradle to Cradle Certified®, or equivalent circularity-focused labels are under consideration as we scale production and refine the material flow.

Storage

- Store indoors only in a well-ventilated, clean, and dry area
- Avoid exposure to moisture, dirt, or dust
- Store flat on stickers or a level, hard surface
- Maintain stable humidity and temperature
- Let panels acclimate to site conditions for 48–72 hours before lamination or installation

Handling & Safety

Handling & Transportation

- Use forklifts or plate lifts whenever possible
- If moved manually, transport panels vertically, one at a time, to prevent warping or damage

Safety & Processing

- Sawing or grinding may release dust; use appropriate dust extraction systems
- Wear respiratory and eye protection during cutting or sanding
- Keep away from open flames or sparks
- Cocoboard is chemically stable, contains no added formaldehyde, and is non-toxic

End-of-Life & Circularity

Cocoboard is designed with sustainability in mind, not only during production but also at the end of its lifecycle.

After use, Cocoboard panels can be:

- Reused or repurposed for secondary applications
- Recycled through mechanical or material recovery routes
- Safely incinerated in a waste-to-energy facility, producing CO₂-neutral energy

NaturLoop is currently exploring third-party testing for biodegradability and compostability under industrial and natural conditions. While Cocoboard contains only natural fibers and a bio-based adhesive, formal certification is pending further analysis.

In parallel, we are evaluating take-back systems and circular design pathways with partners to ensure long-term material value and reduce waste.