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VISION

We fully embrace the "Cradle to Cradle" principle as we exclusively manufacture products that meet the requirements for achieving sustainable development and creating a circular economy.

Our objective is to become the leading manufacturer of high quality ecological building materials that are non-hazardous, fully recyclable and which have a negative carbon footprint.

We aim to invest on a global scale in production facilities based on technologies that are state-of-the-art and environmentally friendly.

We want to safeguard the world's environment and natural resources by producing sustainable building materials that support the circular economy.

MISSION

To develop, design and deliver innovative, recyclable and sustainable building materials that contribute to the development of a circular economy.

To become the world leader in the manufacturing of high quality ecological particle board produced from plant fibres originating from low value agricultural material.

To meet the increasing industry demand for ecological particle board and to satisfy the consumers' need for environmentally friendly and non-hazardous building materials.

To positively address the climate change issue by producing products with a negative carbon footprint resulting from cradle-to-cradle carbon capture and storage.



STRATEGY

We have successfully developed our own patented technology for producing a formaldehyde-free particle board from residual agricultural biomass fibres. This new ecological board has been certified to meet and even exceed the industry-specific international quality standards for OSB- and MDF-boards. The product provides a green, 100% recyclable, cost competitive, and higher quality alternative for the traditional boards while simultaneously offering a sustainable solution to residual agricultural fibre material.

Our first production facility is currently being developed in the harbour of Amsterdam, the Netherlands, together with a feedstock pre-treatment plant in Almeria, Spain. Production is planned to start in the first quarter of 2020 with an annual capacity of 240.000 m³.

In the years to come, we will continue to build new production locations. Development plans for a second plant in the Netherlands and two plants in Spain are well under way. Within the next 5 years, we aim to successfully realise an installed base of 3 production locations with a total production capacity of 500.000 m³ per annum.

Board^{eco}

A new sustainable ecological and 100% recyclable board with superior quality, produced from agricultural fibres. This product is a cost competitive and ecological alternative for the traditional Chipboard, OSB, MDF and Plywood boards.

SUPERIOR QUALITY

The quality of our BoardecoTM product has been independently tested and verified by the WKI Fraunhofer Institute in Germany. Our product was benchmarked against other wood-based particle boards on the basis of the strength and quality specifications as indicated in the international particle board standards (EN 312:2010 or ANSI A208.1).

The bending strength and surface soundness of the BoardecoTM are both well above the industry norms while its elasticity compares well with a traditional product like MDF. At the same time, its density is comparable, which means that the product is not heavier than wood-based board.

BoardecoTM has excellent moisture-resistant properties. After exposure to water, it swells only a third as much as the traditional board products. Moreover, during drying it returns to its original shape, whereas traditional board does not.

The standard fire-retardant properties of BoardecoTM slow down the burning process for 30 minutes without the use of chemical additives. This is achieved by using a production method whereby the oxygen content in the material itself is rendered extremely low. To reach the same fire-retardant characteristics, traditional board first needs to be chemically treated.

Boardeco meets the current industry quality standards for traditional board types such as Chipboard, OSB, MDF, Plywood, hard board and soft board. Testing has proven that Boardeco is a perfect alternative for all these types of boards.

ENVIRONMENTALLY FRIENDLY

BoardecoTM is produced from a wide range of renewable natural fibres, including several sources of agricultural and horticultural residues, resulting from the farming of tomatoes, capsicums, grapes, sugarcane, coconuts, wheat and many other vegetables and crops.

BoardecoTM is a fully recyclable board which fully complies with the "Cradle-to-Cradle" concept as developed by McDonough Braungart Design Chemistry. Our patented production process yields a product that can be re-used as feedstock after it has served its primary purpose. This up-cycling process, which eventually results in a high-quality product, also sequesters the carbon from the feedstock for the long term. In contrast, due to the resins and additives applied, traditional wood-based particle board products are not suitable for upcycling purposes.

Owing to our unique production process and the use of agricultural fibre materials, BoardecoTM has a negative carbon footprint. An independent study showed that our first production facility, with a capacity of 240,000 m³ board material, will realise a reduction of 130 ktons of CO₂ emissions compared to when the feedstock is composted.

In the production of BoardecoTM, use is made of a completely formaldehyde-free resin. As a result, the product conforms to both the strict European formaldehyde emission norm E0 according to EN 120 / EN 717 and the USA formaldehyde norm HUD 24. This makes the boards extremely suitable for use in environmental and health-sensitive areas.

Features

- high structural strength, load bearing and stability
- excellent strength and weight performance
- superior workability
- excellent nail-holding capacity
- no formaldehyde or chemical emissions
- better water resistance than wood-based boards
- superior fire resistance
- high earthquake resistance and durability
- termite prevention
- 100% recyclable

