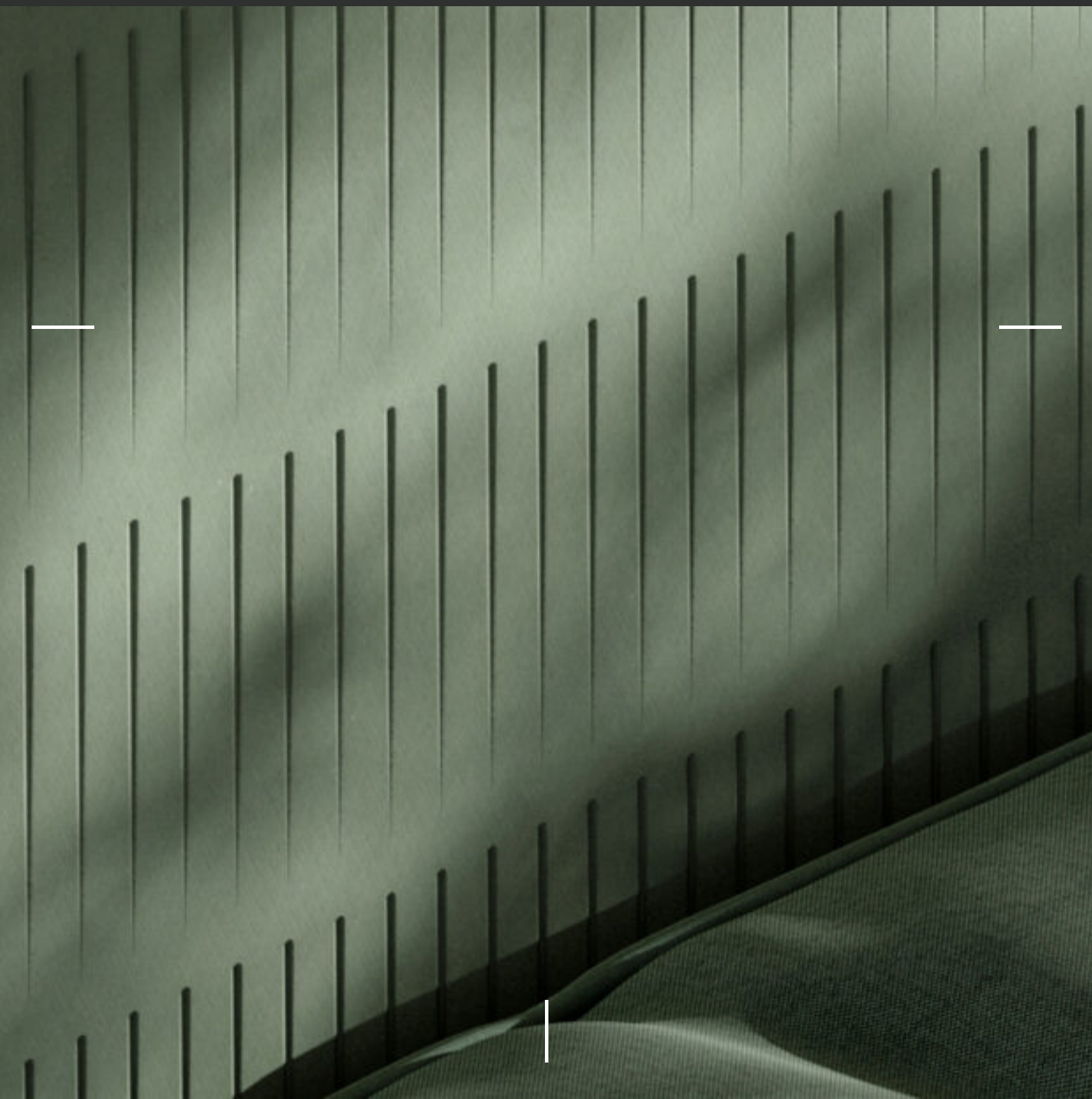
FRONT® Sustainable Building Materials

Paper Waste Panels

Sustainability Statement



ALTED®

Alted® H01 | Paper Waste Panels

Sustainability Statement



At Alted Materials, sustainability is at the core of our approach to innovation and design. Alted® H01, a collection of decorative wall cladding panels, is developed with a strong commitment to environmental responsibility. The panels offer a solution that not only enhances the aesthetics of interior spaces but also helps reduce the environmental footprint of the built environment.

GENERAL INFORMATION

This statement is not an Environmental Product Declaration (EPD). We are currently in the process of obtaining an EPD, which will be completed in 2026, as data from one year of established production is required. Before that, we will start by generating a simplified form of an LCA (Life Cycle Assessment) to evaluate the facts presented below.

With the Alted® H01 panels, we aim to reduce the environmental impact in these key areas:

– Raw Materials: using waste-based raw materials.
– Carbon Footprint: employing only materials with production cycles that significantly cut CO2 emissions.
– Manufacturing: keeping all manufacturing processes and primary raw material sourcing within a 50 kilometer radius.
– End-of-life: developing a 100% recyclable product.

WASTE-BASED RAW MATERIALS

Alted® H01 panels are manufactured using HONEXT® boards and the Iridea Bio coating, both of which are exemplary in sustainable material innovation:

Alted® H01 panels use HONEXT® as base material (98% of Alted® panel's composition), a carbon-negative board made of waste from the paper industry and post-consumer cardboard. HONEXT® upcycles waste cellulose fibres – that would otherwise end up in landfill – into fully recyclable, non-toxic boards using a circular certified process. Their facilities, built within a landfill, use only waste biogas as a source of energy. The Alted® H01 panels contain 722 kg of landfill waste per 100 m2. The use of HONEXT® boards contributes significantly to achieving high scores in various environmental certifications, including LEED (Leadership in Energy and Environmental Design), BREEAM (Building Research Establishment Environmental Assessment Method), and GREEN certifications.

The Iridea Bio coating by ICA Lab (2% of Alted® panel's composition) is composed of up to 75% water and bio-resins deriving from vegetable matter waste not fit for human consumption.

In general, Alted® panels are made out of 98% waste, with some components of Honext boards and Iridea Bio coating being virgin. They are 80% plant-based, as HONEXT® boards contain plastic, metal, and mineral particles from staples, plastic films, tapes, or inks from paper and cardboard past life cycles, as well as mineral-derived additives used to improve material qualities.

We exclusively work with already certified raw materials: The HONEXT® board has an overall Cradle to Cradle certified at Gold Level, and also Gold in Material Health and the UL's Environmental Claim Validation (ECV) attests the exact percentage of renewable content in IRIDEA BIO coatings. Please contact the Alted Materials team if you would like to request these certifications.

LOW CARBON FOOTPRINT

Alted® H01 panels are designed to minimize embodied carbon, a critical factor in reducing the overall carbon impact of construction projects. By using waste-based and plant-based materials, we significantly lower the carbon emissions associated with the production of these panels.

According to the Honext EPD, the Global Warming Potential of their boards prior to leaving their production facilities – when Alted Materials acquires them – is -7.30 kg CO2 eq.

The Iridea Bio line is also recognized for its eco-innovation, since it is manufactured through a production cycle that drastically reduces CO2 emissions: 1,000 kg of IRIDEA BIO allow to save 660 kg of CO2, which is equivalent to the CO2 emissions of a car traveling 5,500 km.
Please refer to Honext board EPD and Iridea Bio catalog to learn more on their manufacturing processes and carbon footprint.

Our process for transforming these two raw materials into Alted® panels combines two steps: coating and pressing. These processes are being evaluated to obtain precise information on their environmental impact. We will be able to share this information once the LCA is finalized.

LOCAL MANUFACTURING

Our manufacturing process takes place across two separate facilities (pressing and coating). These two sites, as well as the facility where waste paper is obtained and HONEXT® boards are made, are all within a 50km radius. The transportation between the sites is also being evaluated. Iridea Bio coating is made in Italy. Because the materials used to make HONEXT® boards and Iridea Bio are waste materials, reliable traceability is not possible.

NON-TOXIC AND SAFE

Safety and health are the highest priorities in our product design. The Alted® H01 panels are non-toxic, resulting in improved indoor air quality and a safer living environment for occupants. The panels are certified A+ air quality under the Grenelle Law, showing that the product has minimum emissions of pollutants like formaldehyde, benzene, and other volatile organic compounds (VOCs). Please contact the Alted Materials team if you would like to request the Air Quality certificate.

DEMOUNTABLE INSTALLATION

Alted® H01 panels can be fixed against a wall without using adhesives. These demountable fixing systems allow reuse of the panels and push the product into subsequent lifecycles. This is especially interesting for retail and hospitality environments where the lifespan of an interior is often much shorter than the lifespan of the individual products that make up the interior.

REUSE AND RECYCLABILITY

We encourage the reuse of Alted® panels that have been disassembled in connection with renovation or demolition. Refurbishment or repairs might be necessary, and the Alted Materials team can provide the required coating products. To further extend the life cycle of our products, the Alted® H01 panels are 100% recyclable within the loop of HONEXT® boards – once the takeback program is in place.

CONTACT US

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