Let's build a better tomorrow today, together.

# HONEXT®

Next-gen upcycled materials for circular living, all made from waste cellulose.



## Doing less harm is no longer enough

Our dependence on traditional building materials is destroying the planet. We owe our home a real action plan. It's time to claim back our waste and put it to use. It's time to readdress the way we build our future.

## Waste as an untapped resource

We must rethink waste and acknowledge its potential. We propose a shift in perspective: embracing end-of-life products not as waste, but as an untapped resource. We see a world where our cities are built entirely from upcycled materials.





Upcycling waste everywhere, locally to enable the global circular economy.

Every year, paper recycling plants and paper mills in the EU generate more than 7 million tonnes of waste fibres that end up in landfills. At HONEXT® we use this waste as our main raw material. Our goal is to recycle waste everywhere and locally, at no cost to the planet. Our first factory is integrated in a landfill: gas and electricity come from waste digestion, water is permanently reused in a closed loop.

## Industrial application of bio-science

We upcycle sludge waste through the carbon-neutral HONEXT® Process, which is bio-based, zero-waste and resin-free. By reinforcing and protecting the bonds between cellulose fibres, we create fully recyclable, non-toxic fibreboards. Once our material reaches the end of its life after many years of use, the cycle starts again.





We analyse, sort and classify waste based on its composition to achieve a standard product. Depending on its quality, we use 50–75% paper sludge and 25–50% cardboard waste. Thanks to our research, our industrial bio-based process allows us to generate stronger bindings between cellulose fibres with no need for resins.

HONEXT® PROCESS



We mix in safe, non-toxic additives with the upcycled cellulose fibres. We then compress and shape the material into a wet board. We feed the wet board through a drying tunnel. The remaining water is evaporated through high airflow and temperature.

# The HONEXT® Board is the next-generation fibreboard.

Fully recyclable, non-toxic and and entirely made from upcycled waste fibres, the 2440×1220×12mm HONEXT® Boards have a wide range of applications for the interior furniture and built environment. What to do with them is entirely in your hands.



#### HONEXT® BOARD

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- No added formaldehyde nor other volatile organic compounds (VOCs).
- ))) It has greater sound absorption properties than traditional fibreboards.
- It is a material resistant to moisture and water vapor.
- Current reaction to fire is class C-s1,d0. We will reach Class B-s1,d0 in 2022.
- $\begin{array}{c} \hline \\ \end{array} \end{array} \ \ \, \mbox{It provides better thermal insulation than other materials} \\ \mbox{with similar applications.} \end{array}$
- $\downarrow \downarrow \downarrow \downarrow$  Flexible and lighter than traditional fibreboards.
  - 100% Recyclable. Cradle to Cradle Silver Certified and Material Health Silver Certified.

We are constantly improving Honext's properties. Visit our website to download the latest version of our data sheet. honextmaterial.com/downloads



#### **APPLICATIONS**

## Building healthy environments

HONEXT® Boards are truly circular. With competitive mechanical and thermodynamic properties for application in the interior built environment, they are the real alternative to traditional building materials. Explore their multiple applications for joinery, wall and ceiling cladding.

Download the processing instructions from our website for our full list of recommendations: honextmaterial.com/downloads





#### APPLICATIONS

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APPLICATIONS

#### APPLICATIONS





We are bringing together an engaged community to engineer the world of tomorrow through collaboration today. Be part of the change.

#### JOIN US

www.honextmaterial.com