




HOMEXT

HONEXT® PROCESS



Raw material
standardisation

HONEXT® PROCESS



Resin-free,
bio-based process








We analyse, sort and classify the waste fibres based on its composition. Depending on its quality, we use 50–75% paper sludge and 25–50% post-consumer 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® BOARD



HONEXT® BOARD

-  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.
-  It provides better thermal insulation than other materials with similar applications.
-  Flexible and lighter than traditional fibreboards.
-  100% Recyclable. Cradle to Cradle Silver Certified and Material Health Silver Certified.

General information:

DENSITY: +/- 540 kg/m³

FORMAT: 2440×1220×12mm

THICKNESS TOLERANCE: +/- 0.5mm

We are constantly improving HONEXT®'s properties.
Visit honextmaterial.com/downloads for the latest version of our Data Sheet.

PROPERTIES	REFERENCE TEST	UNITS	12MM
Density	EN 323	kg/m ³	+/- 540
Content, emission and/or release of dangerous substances ⁽¹⁾	EN 16516	µg/m ³ (At 28 days)	85
Vapour permeability	ISO 12572:2018	µ	2,7
Reaction to fire	EN 13823 (SBI)	Euroclass	C-s1,d0
Airborne sound insulation (surface mass)	ISO 354:2004	dB	24
Acoustic absorption	ISO 354:2004	α _w	0,15
Thermal conductivity	EN 12664:2002	W/m·K	0,093
Dimensional stability (variation of length)	EN 318	mm/m	2,2
Dimensional stability (variation of thickness)	EN 318	%	1,9
Impact resistance (soft impact body energy)	EAD 210132-00-0504	N·m	1,200
Impact resistance (hard impact body energy)	EAD 210132-00-0504	N·m	10

PROCESSING HONEXT®

Cutting HONEXT®

HONEXT® boards can be easily cut and profiled as any other wood-based construction board. The best tools for cutting Honext are Circular saws and CNC machines although any other traditional wood cutting/processing machines will work as well.

The boards have short fibres and no resin binders therefore must be cut using higher RPM than other fibreboards. To avoid tool wear and burns caused by high friction, the tools should never reach more than 300 degrees Celsius.

Circular saws:

Recommended blade:

80+ tooth, composite blades

Provider:

Leitz Tooling

Product:

Circular sawblade Katana / Ref 161200-06

Technical information:

Katana tooth combination with alternate angle of cutting face for best cutting results. Excellent design with plastic filled laser ornaments for vibration damping and reduction of noise level.

Machines:

Table and sizing saws, vertical panel sizing machines without scoring unit, cross, trimming and mitre cutting saws.

RPM: 4000+ **Speed:** 3m/min



MITRE SAW



BAND SAW



PROCESSING HONEXT®



CNC MACHINING



Recommended CNC tooling:

B. PROFILING

DIXI 72420-SH PCD, 6–8 mm diameter, 2 flutes, straight flute
Chip Load: 0.03 - 0.04mm



DIXI 7112, 5 - 5–8mm diameter, 2 flutes straight
Chip Load: 0.03 - 0.045mm



C. POCKETING

DIXI 7112, 5 - 8mm diameter, 2 flutes
Chip Load: 0.03 - 0.045mm



DIXI 7800, 20 - 35mm diameter, 4 - 6 flutes, straight
Chip Load: 0.01 - 0.017mm



D. DRILLING

DIXI 1290, 3 - 8mm diameter, 2 flutes, extraction
Chip Load: 0.04 - 0.06mm



E. ENGRAVING AND EDGING

DIXI 7628, 20mm diameter, 2 flutes, straight
Chip Load: 0.025mm



DIXI 7112, 5 - 8mm diameter, 2 flutes,
Chip Load: 0.03 - 0.045mm



DIXI 7834, 6 - 25mm diameter, 4 flutes, extraction.
Chip Load: 0.01 - 0.026mm



F. 3D MILLING

Roughing / Finishing:

DIXI 7834, 6 - 25mm diameter, 4 flutes, extraction.
Chip Load: 0.01 - 0.026mm



DIXI 7032, 12 - 16mm, 2 flutes, extraction.
Chip Load: 0.015 - 0.03mm



G. FACING

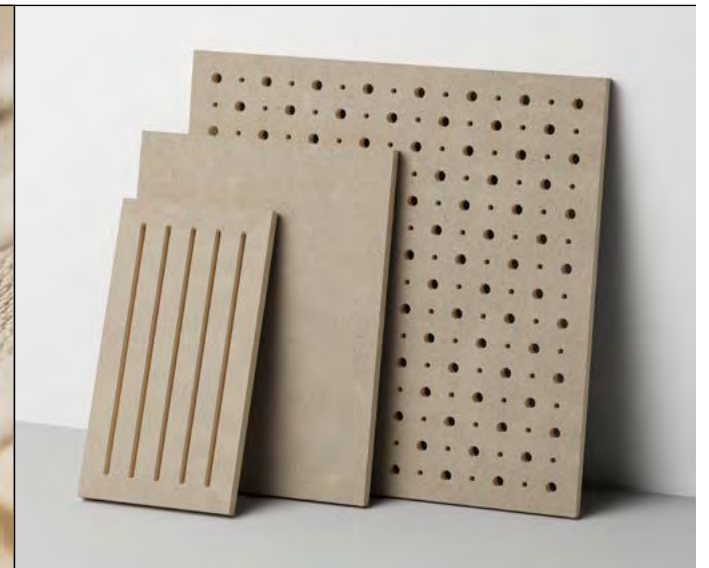
DIXI 7800, 20 - 35mm diameter, 4 - 6 flutes, straight
Chip Load: 0.01 - 0.017mm



CNC Machining

A. General parameters:
 HONEXT® boards have to be routed with high revolutions to obtain clean results. The recommended speeds and feeds for CNC machining can be determined by using the chip load chart on the right.

TOOL DIAMETER	HONEXT	HARD WOOD	PLYWOOD	MDF/PARTICLE	SOFT PLASTIC	HARD PLASTIC	COMPOSITES
3mm	0.02 - 0.04	0.08 - 0.13	0.10 - 0.15	0.10 - 0.18	0.08 - 0.15	0.05 - 0.1	0.08 - 0.13
6mm	0.03 - 0.04	0.23 - 0.28	0.28 - 0.33	0.33 - 0.41	0.18 - 0.26	0.15 - 0.23	0.23 - 0.31
10mm	0.04 - 0.05	0.41 - 0.46	0.43 - 0.51	0.51 - 0.59	0.26 - 0.31	0.20 - 0.26	0.41 - 0.46
13mm - >	0.05 - 0.06	0.48 - 0.54	0.54 - 0.59	0.64 - 0.69	0.31 - 0.41	0.26 - 0.31	0.59 - 0.64
1/8 inch	.0008 - .0015	.003 - .005	.004 - .006	.004 - .007	.003 - .006	.002 - .004	.003 - .005
1/4 inch	.0011 - .0015	.009 - .011	.011 - .013	.013 - .016	.007 - .010	.006 - .009	.009 - .011
3/8 inch	.0015 - .0019	.015 - .018	.018 - .020	.020 - .023	.010 - .012	.008 - .010	.015 - .018
1/2 inch - >	.0019 - .0023	.019 - .021	.021 - .023	.025 - .027	.012 - .016	.010 - .012	.019 - .021



Sanding and Calibrating

HONEXT® board's surface and edges can be sanded or using industrial sanding and calibrating machines as well as standard manual equipment and processes commonly applied for wood based boards.

The surface texture can be sanded smooth using fine grit sandpaper. Sanding the surface will eliminate any characteristics such as watermarks and ink spots. Sanding the outer layers of the board may cause a reduction of the material's mechanical properties, as well as increase its porosity. It is always recommended to apply the same process on both sides of the board to avoid tensions.

Recommended sandpaper:

Calibration:

Grit 40 - 80

Smooth finish:

Grit 320+



CALIBRATION

PROCESSING HONEXT®



HONEXT® DUST



PROCESSING HONEXT®

Dust

The dust generated when processing HONEXT® boards is dense, but in no case it is toxic nor emits formaldehyde or VOCs. Regardless, the dust should not be inhaled and the use of protection gear and dust extraction systems is highly recommended.

Drilling and Screwing

HONEXT® boards do not require pre-drilling before screwing on their edges main surfaces. However, it is always recommended to drill a pilot hole for maximum performance. Although the material does not split easily, edges should always be pre-drilled to avoid it.

A. RECOMMENDED SCREWS

All wood screws will work on HONEXT® boards, as well as untapered sheet-metal or production screws that can give even better results for some applications.

B. TENSILE LOAD

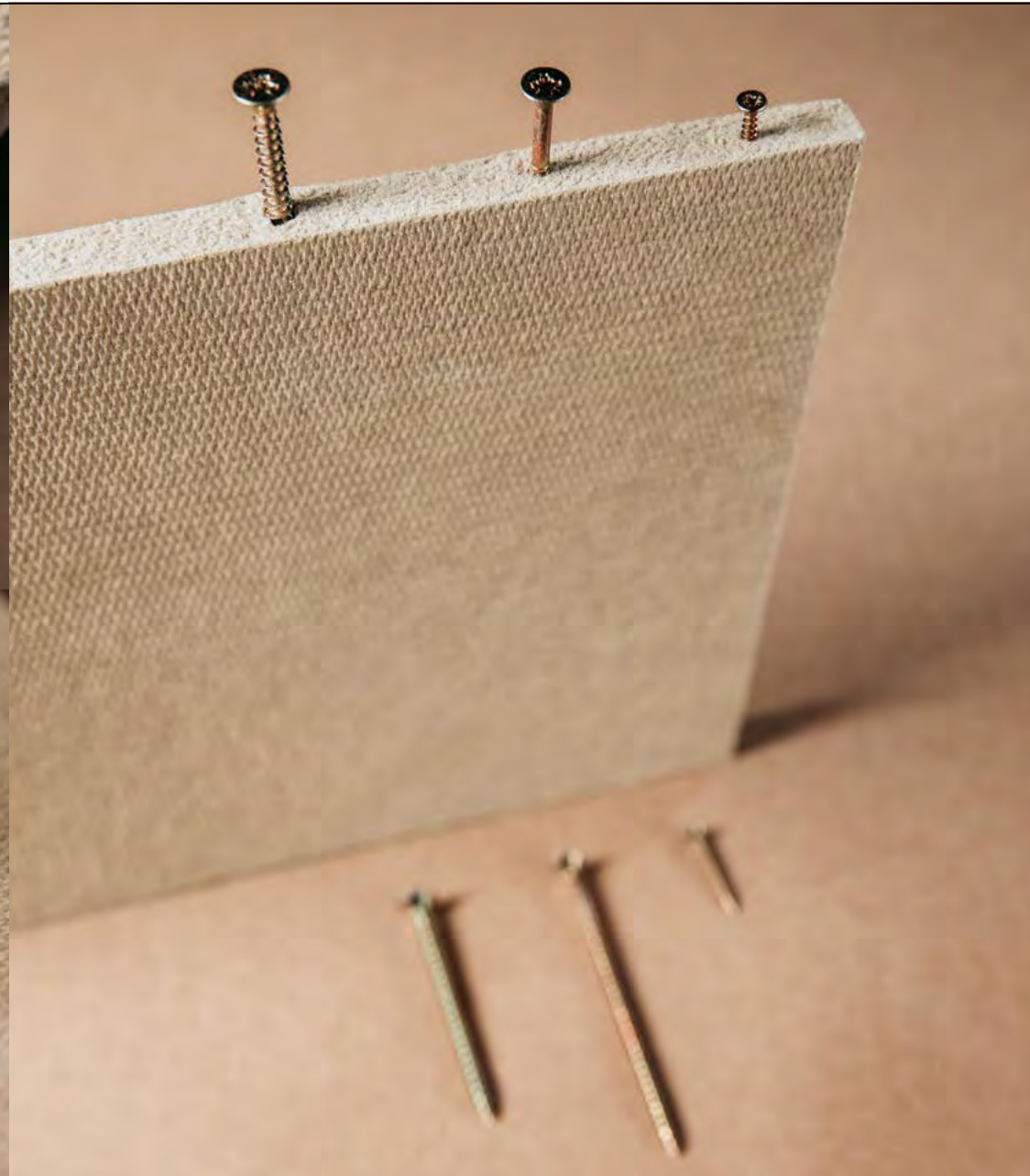
A 540kg/m³ HONEXT® board has around 65% of the screw tensile load of a 700kg/m³ fibreboard.



PROCESSING HONEXT®



EDGE SCREWS WITHOUT PRE-DRILLING



Bending

HONEXT® is a light and flexible material which does not require water, steaming or adhesives to be bent. Without any mechanisation the raw board can be bent to a 110cm radius on all axis before the risk of breaking. When left under pressure the tension leaves the material and the board will remain in shape of the mold. The same board can as well be pressed flat again.



SHAPE MEMORY



BENDING





Kerfing check

Kerfing HONEXT® has many advantages over wood or other fibreboards. The surface is more flexible and will not brake when curving down to 50mm diameter.

PROCESSING HONEXT®



KERFING



HONEXT® FINISHES

COATING



PROCESSING HONEXT®

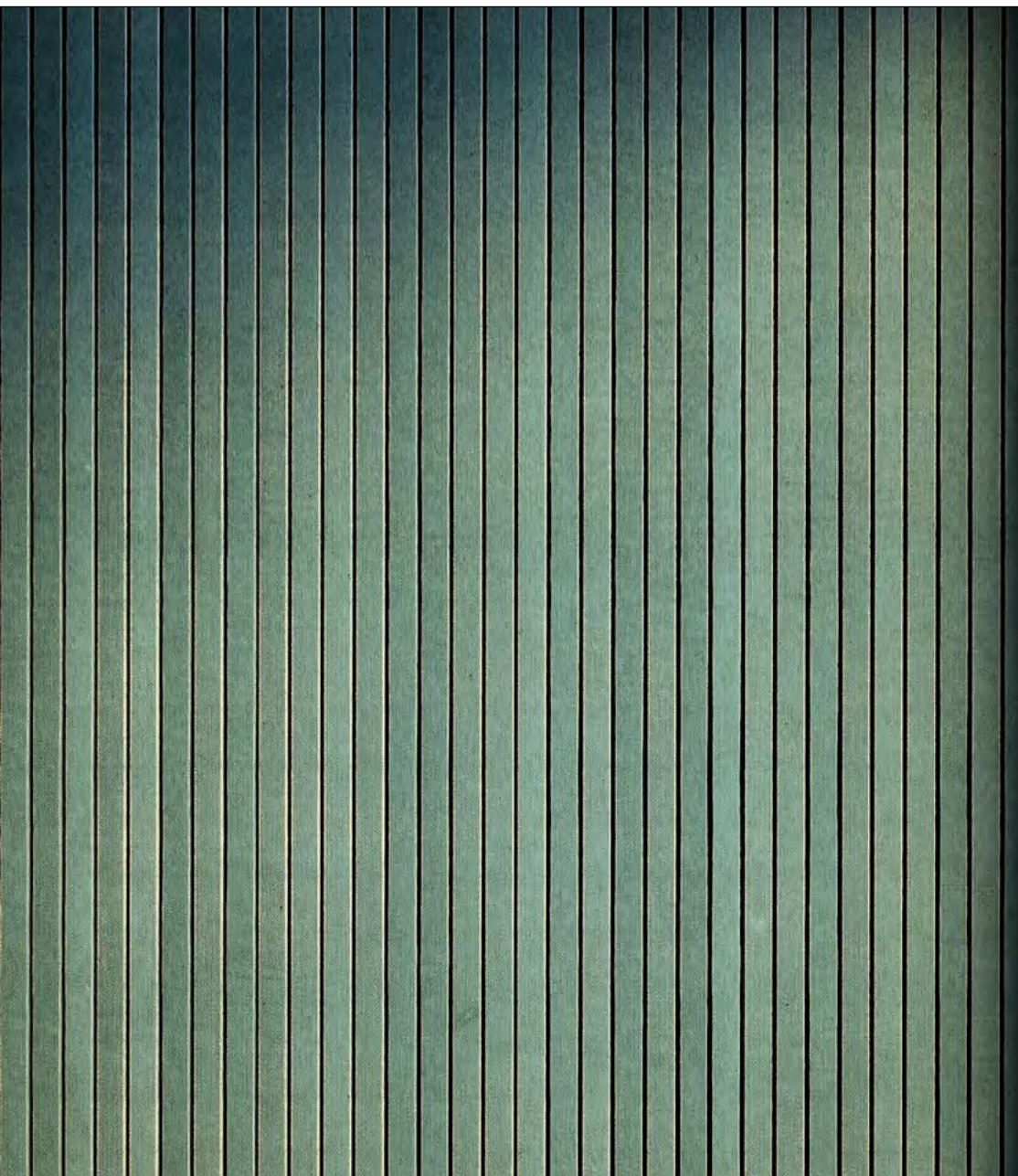
Coating

HONEXT® can be coated with most common types of paints, oils using and varnishes using a spray gun or a roll. It is always recommended to use water-based products without any dissolvent. If transparent or bright dissolvent-based products are used, ink particles from the paper waste may dissolve and become visible.

Coating should be applied on both sides to avoid any tension that results in the unwanted curvature of the board. A single-sided finish should only be applied when the product is fixed to a solid structure. To minimise absorption, use a primer or a base coat and let it fully dry before applying the final coating.

Visit honextmaterial.com/downloads for product recommendations.

COATING



PROCESSING HONEXT®





Digital Printing

HONEXT® is an excellent material to print on using digital printing technologies. As the material is based with paper fibres it takes both colours and high resolution

PROCESSING HONEXT®

DIGITAL PRINTING



Yrke for ennis.com.br, foto by Marell Lind Hansen

OMNI

LAMINATION



PROCESSING HONEXT®

Lamination

HONEXT® can be laminated in a traditional manner as other fibreboards. Standard industry glues and processes can be applied for HPL, wood veneer, vinyl, linoleum and many more. Due to the boards +/-0.5 mm thickness tolerance it is recommended to calibrate the boards before lamination. We always recommend using low emission or formaldehyde-free glues to ensure recyclability of our boards.

Visit honextmaterial.com/downloads for glue recommendations.

Laser

HONEXT® can be engraved using a Laser cutter with minimum voltage. Although HONEXT® can be cut and profiled using a high-power laser cutter it is not recommended due to burned edges.



Texturing

HONEXT® can be textured in a traditional industrial manner using moulds and a hot press. The low density allows the material to form easily without returning to its original shape.

Pressure: 100 - 500 kg/m²

Temperature: 95 °C

Time: 280 sec



PROCESSING HONEXT®

TEXTURING



Edging

HONEXT® boards can be edged with traditional industry equipment and adhesives.



PROCESSING HONEXT®

EDGING



HONEXT® PROJECTS

Construcía Sant Cugat

ACOUSTIC

Client: **Construcía**
Architect: **Construcía**
Builder: **Construcía**
Industrial Joinery: **Mecakim, Envernissats R. Vila.**
Suppliers: **ICA Lab, DIXI Polytool**

Date of completion: **January 2022**
Location: **Sant Cugat, Barcelona**
Area: **300m²**
Sector: **Office**

HONEXT® in use

Product: **HONEXT® Board**
Application: **Acoustic Clouds and Ceilings**
Area: **60m²**

Project Description:

Circular construction company Construcía used HONEXT® for suspended clouds and ceilings to improve the acoustics at their offices in Sant Cugat. HONEXT® met all the requirements of a Cradle to Cradle certified solution, allowing for healthy sound absorption with zero emissions and a look and feel that contributes to a pleasant work environment.

Processing:

1. Cut to size using a table saw. RPM: 5000, Cutting speed: 3m/min, Blade: 96 tooth, composite blade.
2. Perforated at Mecakim with CNC technology creating a grid of 8mm diameter holes every 16mm. Tool: Dixi Polytool 1290 Parameters: Speed: 2000mm/min, RPM: 18000
3. Acoustic fabric glued at the back of the panel. Glue: PVA
4. Varnished at Envernissats R. Vila. 2 layers on both sides using a spray gun. Dried in a UV drying tunnel. Product: Transparent varnish, AO800G5, ICA Lab

Installation:

Acoustic Islands: **Screwed at 5cm to the edge with 30cm spacing on a metal profile that is hung from the ceiling. Fixings: Self drilling metal screws 3.5x35mm directly to metal profile. Screw spacing 30cm.**

Acoustic ceiling: **Screwed at 5cm to the edge with 30cm spacing through pre-drilled screw holes on wooden battens mounted to walls/ceilings. Fixings: Wood screws 3.5x35mm directly to wooden battens. Screw spacing 30cm. Acoustic wool is then placed in the metal frame.**



APPLICATIONS



ACOUSTIC



Stella McCartney Store

WALL CLADDING

Client: **Stella McCartney**
Architect: **Stella McCartney**
Builder: **Stella McCartney**
Industrial Joinery: **Mecakim, Wood Finishes**
Suppliers: **Rubio Monocoat**

Date of completion: **November 2021**
Location: **Saudi Arabia**
Area: **97m²**
Sector: **Retail**

HONEXT® in use

Product: **HONEXT® Board**
Application: **Wall cladding**
Area: **265m²**

Project Description:

Fashion retail company Stella McCartney used HONEXT® to build interior cladding of their store in Saudi Arabia. Previously they had been using concrete for the same design which has now been replaced with Honext material.

Processing:

1. Three 12mm boards were glued and pressed together to make 36 mm thick boards.

Glue: PVA

2. The boards were machined with a CNC router creating the requested design and surface texture.

Tool: BallEnd 50mm, 2 flute.

Parameters: RPM: 18000. mm/min: 1500.

3. Varnished at Wood Finishes

Product: Rubio Monocoat Oil, Custom RAL.

Application: Spray gun, 2 layers

Installation:

The material was installed on a custom metal structure with metal fixtures.



APPLICATIONS

WALL CLADDING



TEXTURE SAMPLES



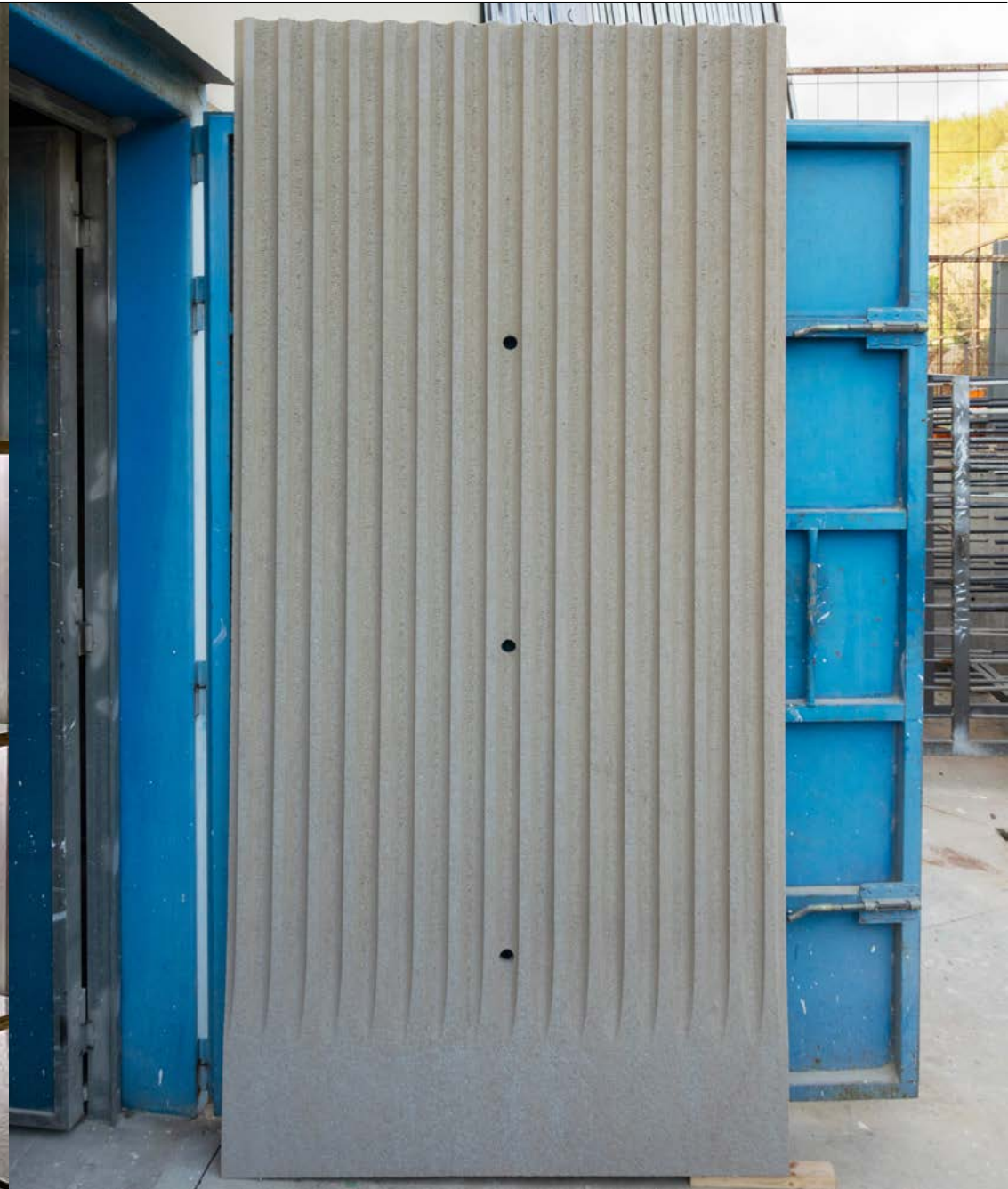
MECHANIZED CLADDING



APPLICATIONS



MECHANIZED CLADDING



Wallbox Headquarters

ACOUSTIC

Client: **Wallbox**
Architect: **Construc a**
Builder: **Construc a**
Industrial Joinery: **Mecakim, Envernissats R. Vila**
Suppliers: **ICA Lab, DIXI Polytool**

Date of completion: **May 2021**
Location: **Barcelona**
Area: **1.000m²**
Sector: **Office**

HONEXT® in use

Product: **HONEXT® Board**
Application: **Acoustic Clouds and Ceilings**
Area: **192,2m²**

Project description:

Circular construction company Construc a turned to HONEXT® to build acoustic islands that improved the office acoustics of electric car charger manufacturer Wallbox. Honext's circular process met all the requirements of a Cradle to Cradle certified solution, allowing for healthy sound absorption with zero emissions and a look and feel that contributes to a pleasant work environment.

Processing:

1. Cut to size 240x120cm, 180x120cm and 60x60cm at Mecakim with circular saw at 5000 RPM, 3m/min.

2. Perforated at Mecakim with CNC technology creating a grid of 8mm diameter holes every 16mm. Tool: Dixi Polytool 1290, Diameter: 8mm. Cutting Parameters: Speed: 2000, RPM: 12000

3. Acoustic fabric glued at the back of the panel. Glue: PVA

4. Varnished at Envernissats R. Vila.
Product: Transparent varnish, AO800G5, ICA Lab

Installation:

Acoustic Islands: **Screwed at 5cm to the edge with 30cm spacing on a metal profile that is hung from the ceiling. Fixings: Self drilling metal screws 3.5x35mm directly to metal profile. Screw spacing 30cm.**

Acoustic ceiling: **Screwed at 5cm to the edge with 30cm spacing trough pre-drilled screw holes on wooden battens mounted to walls/ceilings. Fixings: Wood screws 3.5x35mm directly to wooden battens. Screw spacing 30cm.**



WALLBOX



ACOUSTIC ISLANDS



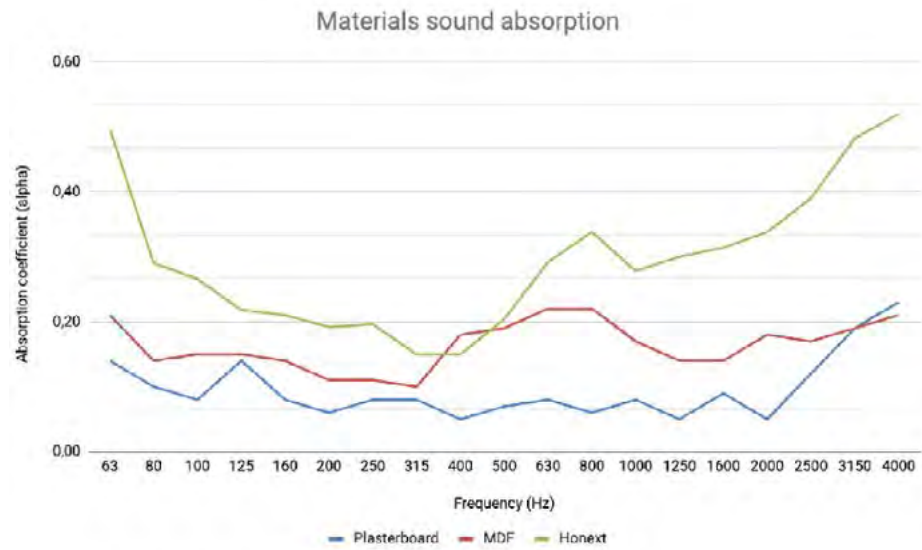
WALLBOX



ACOUSTIC CLADDING

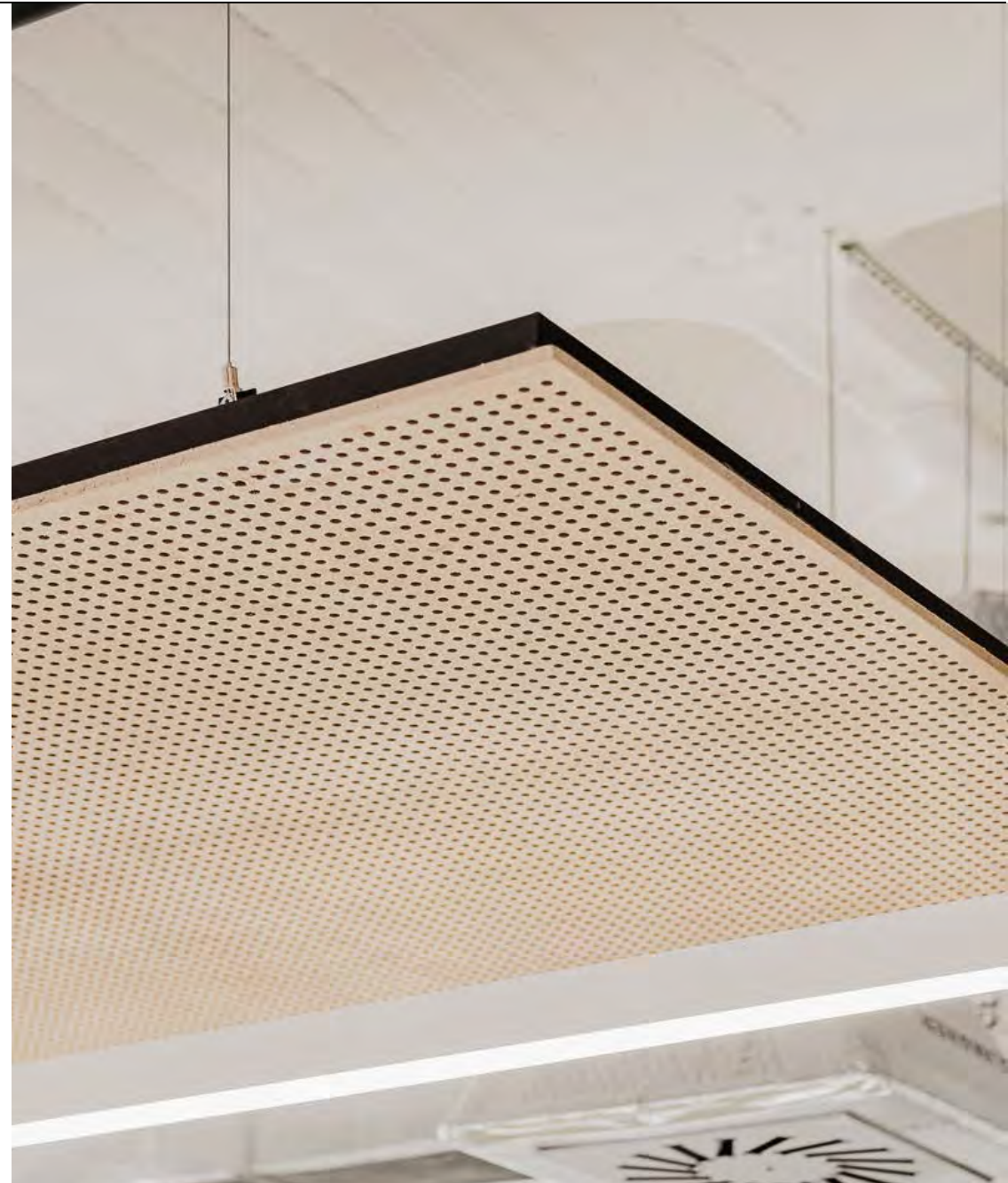


APPLICATIONS



Comparison between MDF, Plasterboard and HONEXT of 10mm thickness.
By the UPC (Barcelona).

ACOUSTIC



APPLICATIONS



DROP CEILING



Adidas Store

RETAIL

Client: **Adidas**
Architect: **Adidas**
Builder: **Kimak**
Industrial Joinery: **TMDC, Wood Finishes**
Suppliers: **ICA Lab**

Date of completion: **October 2021**

Location: **Hamburg**

Area: **900m²**

Sector: **Retail**

HONEXT® in use

Product: **HONEXT® Board**

Application: **Shopfitting**

Area: **100m²**

Project Description:

Adidas Germany renovated their Hamburg store using recycled materials from various material manufacturers. This project was a new concept they are implementing in their stores all around Europe. Honext was used as a shelving surface for product display in the whole store.

Processing:

1. Cut to size at TMDC with a circular saw at 5000 rpm.

Blade: 96 tooth, composite

2. The surface texture was sanded smooth on one side of the board using an industrial sanding machine.

Paper grid 320p.

3. Varnished at Wood finishes.

Product: Idomat Natural Effect, Verinlegno. Hydro primer

Application: Spray gun on both sides.

Installation:

The material was placed in the metal frames and fixed with screws in pre-drilled holes.

Screws: 2.5x10mm wood screws



APPLICATIONS



SHELVING



APPLICATIONS



RETAIL



Más que abejas

TEMPORARY INSTALLATION

Client: **Intervento**

Architect: **Xavier Torrent**

Builder: **FLISX**

Industrial Joinery: **FLISX**

Suppliers: **AkzoNobel**

Date of completion: **October 2021**

Location: **Barcelona Botanical Garden**

Area: **50m²**

Sector: **Temporary installations**

HONEXT® in use

Product: **HONEXT® Board**

Application: **Exhibition display**

Area: **100m²**

Project Description:

HONEXT® partnered with museography expert Intervento to create the information boards for **More than bees**, a Barcelona Botanical Garden temporary exhibit highlighting the essential role of insect pollinators. HONEXT® boards were painted, varnished and digitally printed on to resemble honeycomb-like structures, being later bound together using wooden slats and fine nails. All treatments applied are eco-friendly and can be easily broken down to allow for the complete reusability of the material once the exhibit is over, in line with sustainability efforts to preserve wild bee populations.

Processing:

1. Cut to size with a table saw at 5000 rpm.
Blade: 96 tooth, composite blade

2. Painted using a spray gun. 2 layers
Product: Cetol WF 771, Black, AkzoNobel

3. Digital printing at Digiprint Center

Installation:

The boards were mounted using glue and pins on a wooden structure.
Glue: PVA





Els agents pol·linitzadors
Los agentes polinizadores
Pollinating agents

Són els encarregats de transportar el pol·len dels òrgans masculins de la flor als òrgans femenins de la mateixa flor o d'una altra.

El tipus de pol·len varia de mida i aspecte segons l'agent pol·linitzador que el transporta.

Alguns agents pol·linitzadors transporten el pol·len mitjançant el vent, mentre que d'altres ho fan mitjançant els insectes.

Alguns agents pol·linitzadors transporten el pol·len mitjançant el vent, mentre que d'altres ho fan mitjançant els insectes.



El joc de la seducció
El juego de la seducción
The seduction game

Les flors han d'atrar i seduir els agents pol·linitzadors perquè seixin en elles i en transportin el pol·len.

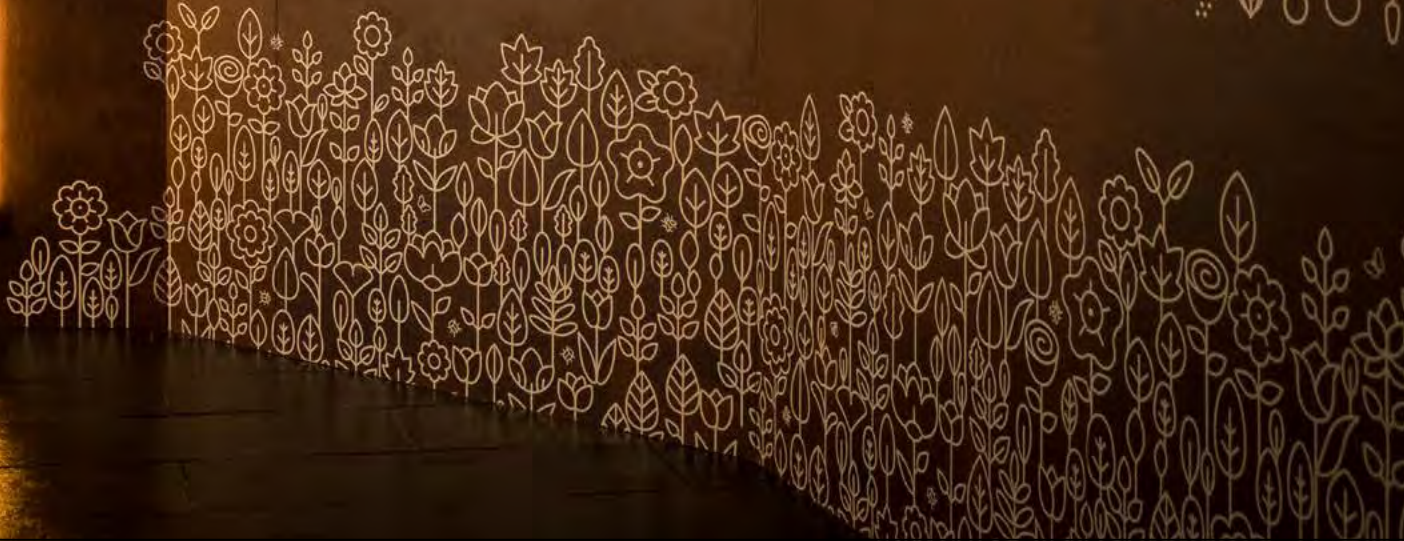
Per aconseguir l'atenció dels insectes, les flors adopten colors i formes vistoses i també ofereixen aliment.

Quan volen la flor, els insectes s'atracuen del pol·len, que els aporta proteïnes i arranjats en forma de midó i lípid.

Els insectes visiten les flors així mateix per obtenir el pol·len, i sense adonar-se'n, les pol·linitzen.

Així doncs, la pol·linització de les flors per part dels insectes és un fet accidental.

On és l'abella?
¿Dónde está la abeja?
Where is the bee?



Les flors
Las flores
Flowers

Les flors poden tenir diferents tipus de reproducció: bisexual o masculina o dels dos sexes.

Les flors masculines de la flor s'anomenen pètals.

Les flors femenines de la flor s'anomenen pistils.

Les flors poden tenir diferents tipus de reproducció: bisexual o masculina o dels dos sexes.

Les flors masculines de la flor s'anomenen pètals.

Les flors femenines de la flor s'anomenen pistils.



Torre d'Ara Coworking

ACOUSTIC

Client: Torre d'Ara
Architect: Construc a
Builder: Construc a
Industrial Joinery: Hermanos G mez
Suppliers: ICA Lab

Date of completion: December 2020
Location: Badalona
Area: 1000m²
Sector: Office

HONEXT® in use

Product: HONEXT® Board
Application: Wall cladding
Area: 180m²

Project Description:

Circular economy pioneer Construc a chose HONEXT® to design a healthy co-working space at the seaside building of Torre d'Ara. Raw HONEXT® boards were treated with renewably-sourced varnish and used as internal cladding and furniture finish, creating an office environment that promotes the user's well-being while ensuring full recyclability. HONEXT® was also used for the construction of phone booths, leveraging the boards' superior sound absorption capabilities when compared to materials with similar applications.

Processing:

1. 3cm wide stripes of HONEXT® were cut, glued and pressed on a full board of HONEXT®. The boards were then cut to size using a table saw.

Glue: PVA
Saw blade: 96 tooth, Composite

2. The boards were varnished using a spray gun.
Product: Transparent varnish, AO800G5, ICA Lab

Installation:

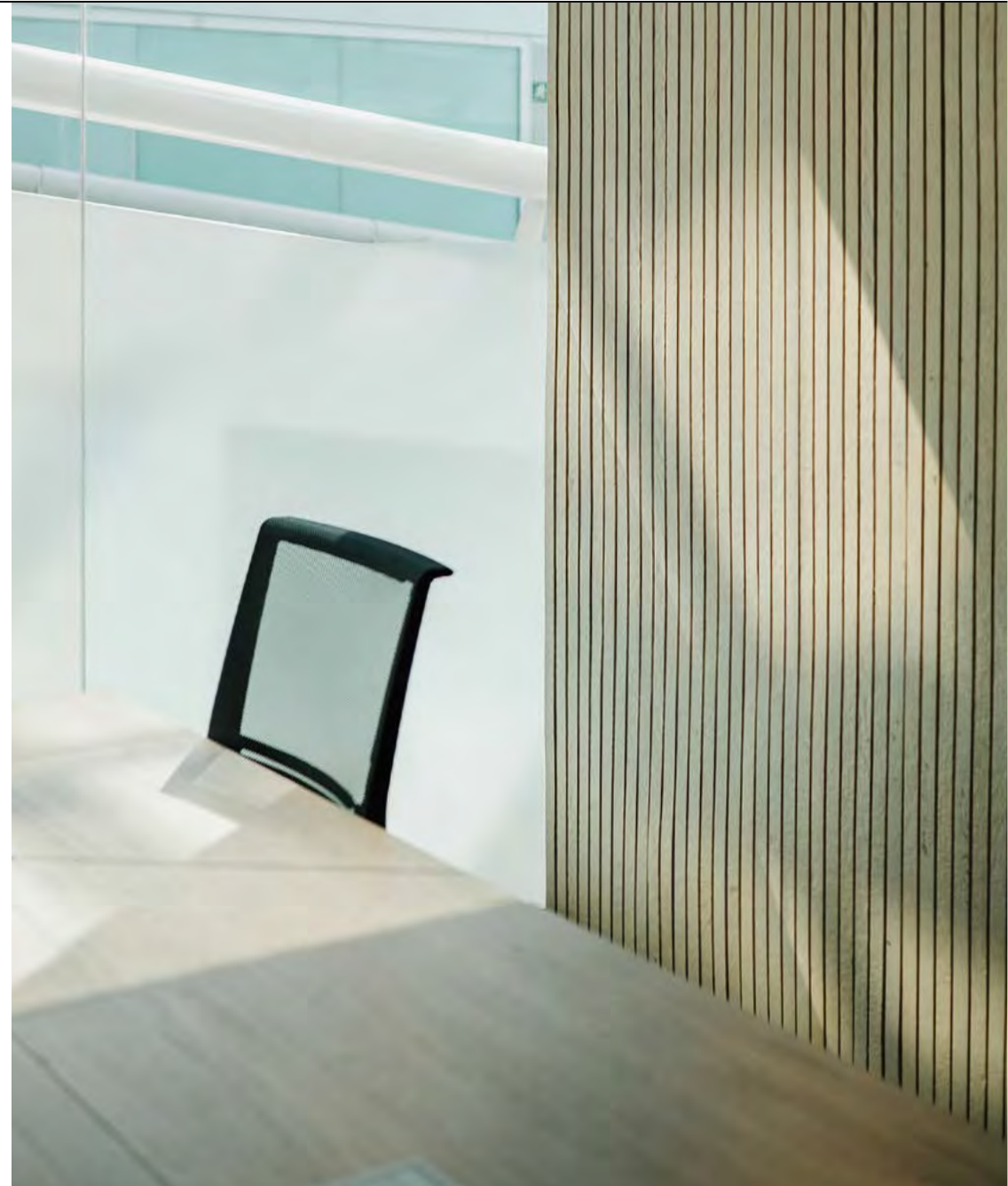
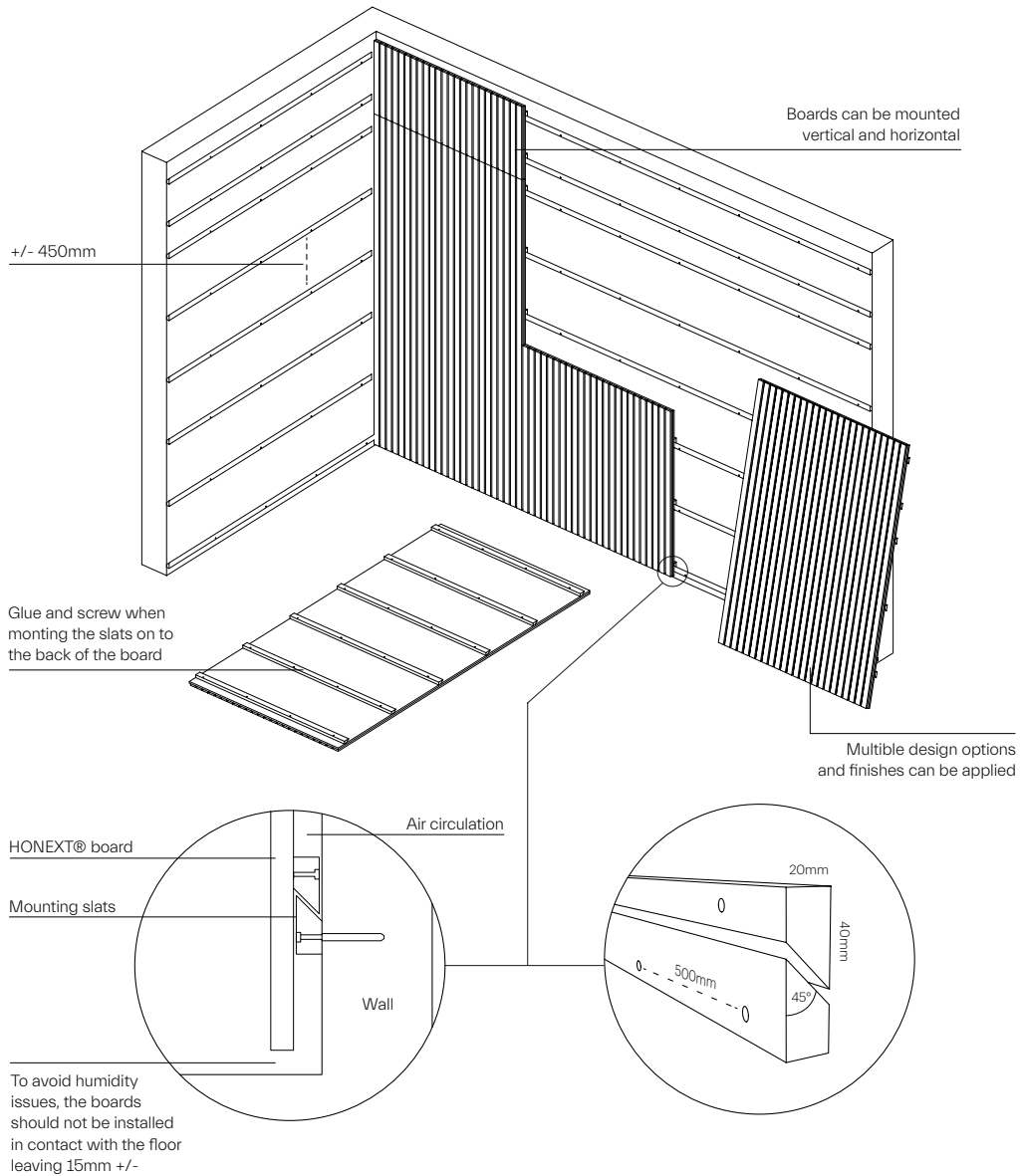
Mounting slats with 45° angle were fixed on the walls and glued and screwed on the back of the HONEXT® boards. The boards were then hanged and fixed on the wall structure.

(see on the following page)



APPLICATIONS

WALL CLADDING : HANGED



APPLICATIONS



WALL CLADDING



Pool Berlin

RETAIL

Client: **Pool Berlin**
Architect: **Pool Berlin**

Date of completion: **November 2021**
Location: **Berlin, Germany**
Area: **220m²**
Sector: **Retail**

HONEXT® in use

Product: **HONEXT® Board**
Application: **Wall cladding**
Area: **90m²**



APPLICATIONS



RETAIL



The Circular Office Düsseldorf

OFFICE

Client: **Urselmann interior**
Architect: **Urselmann interior**

Date of completion: **March 2022**
Location: **Düsseldorf, Germany**
Area: **120 m²**
Sector: **Wall Cladding**

HONEXT® in use

Product: **HONEXT® Board**
Application: **Wall cladding**
Area: **40m²**

Project description:

Urselmann interior is a one contact service for circular interior design. At the end of 2020, the team of designers and craftsmen started to rethink their own planning and manufacturing processes. The goal, step by step, is to make a complete transition to a circular economy based on the Cradle to Cradle school of thought and design. According to the principle “nutrient remains nutrient”, all materials used should be able to circulate permanently in one of the two cycles. At the beginning of the design process, all constructions must already be designed to be circular and decomposable, as well as collectable and separable by type, in order to enable upcycling at the end of the life cycle.





● clay paint

glue free solid
wood construction

Lighting:
2nd Hand + HeySign felt

Honext

renewed
wooden floor

c2c Office Chairs:
Giroflex 313

Desks
2nd Hand

ui c2c office

M:
DIN A3

urselfmann
interior
v 1.1

APPLICATIONS



INTERIOR



Neutrale Store

RETAIL

Client: **Neutrale**
Architect: **estudio DIIR**
Builder: **TMDC, estudio DIIR**
Suppliers: **Cedria**

Date of completion: **April 2021**
Location: **Madrid**
Area: **90m²**
Sector: **Retail**

HONEXT® in use

Product: **HONEXT® Board**
Application: **Wall cladding**
Area: **50m²**

Project Description:

Sustainable lifestyle brand Neutrale wanted to revive its charming old retail location in downtown Madrid. To do so, it teamed up with estudio DIIR to imbue its store with the brand's essence while respecting the original architecture of the space. HONEXT® and Neutrale shared the vision of re- thinking waste as an untapped resource, so there was a perfect match. HONEXT® was used as cladding in the store's main room to mark the line defined by the granite base of the façade. The boards unifies this first room and the store's reception space and gives them a cosy feel that serves as a letter of introduction to the brand.

Processing:

1. The boards were cut to size using a table saw.
Saw blade: 96 tooth, Composite
2. The surface was sanded by hand to create a "clay-like" finish.
Sandpaper: Grit 280
3. The panels were varnished with a transparent finish using a spray gun.
Product: CS-Cedria, Transparent

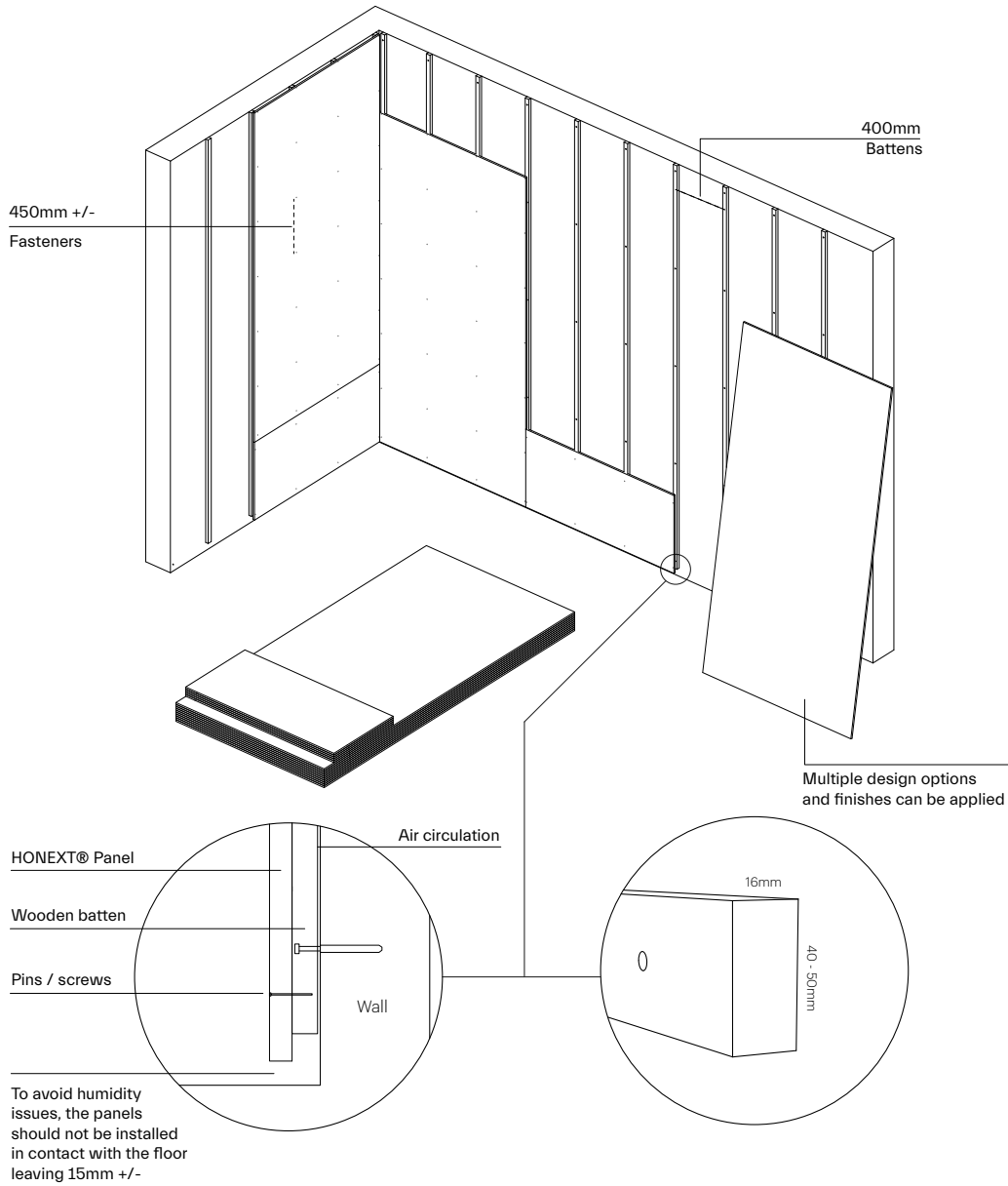
Installation:

Wooden mounting slats were fixed on the walls. HONEXT® was glued and pinned using a nail gun on the wall structure. Glue: PVA
(see on the following page)



APPLICATIONS

WALL CLADDING : FIXED



APPLICATION

WALL CLADDING : FIXED



What a Waste

TEMPORARY INSTALLATION

Client: Dutch Design Week
Architect: Dutch Design Week
Builder: TMDC
Suppliers: OurCarbon

Date of completion: October 2021
Location: Eindhoven, Holland
Area: 150 m²
Sector: Temporary installations

HONEXT® in use

Product: HONEXT® Board
Application: Exhibition Display
Area: 50m²

Project description:

Within the context of Dutch Design Week 2021, the largest design event in Northern Europe uniting thousands of designers and architects in Eindhoven, October 16-24, OurCarbon's What a Waste exhibit will be presenting this ground-breaking material and its various applications. The showcase will be made of HONEXT® boards painted with OurCarbon pigment. OurCarbon pigment, is a circular alternative to traditional colourants that involve carbon- and chemical-intensive production processes.



APPLICATIONS



EXHIBITION

What a Waste.

OurCarbon: A Carbon Negative Base Material Made From Sewage Sludge

Reshaping our material streams will require rethinking what we consider to be a waste. This exhibit showcases a new material called OurCarbon that has been sustainably transformed from organic waste streams like food waste and sewage sludge. Created through a three step process, this material shows how carbon negative substances can - and will - take the place of our fossil fuel intensive materials and standard methods of production.

① Divert

Organic waste is diverted from wasteful disposal sites, like landfill, or practices like the application of contaminated organics to crops. This diversion prevents greenhouse gas emissions while also preventing our food and environment from being contaminated.

② Transform

The organics are dried and carbonized in a passive energy process using our proprietary technology. During this transformation, the carbon in the organics is fixed in place for thousands of years, never to emit as greenhouse gas.

③ Apply

OurCarbon is applied to industry in ways that maximize the material's benefits while replacing fossil fuel intensive equivalents. By replacing harmful standard materials further emissions are prevented and a new material stream is created from what was considered 'waste.'

The design work shown in this exhibit has been created by a vibrant community of designers from across the US. Each design profiles an application for OurCarbon and focuses on the concept of re-using waste. Together, this effort seeks to help us question what a waste it has been producing in excess with unsustainable materials for the past century, and the potential our 'waste' materials have to change these practices.

HONEXT
High Performance Paper

This exhibit has been realized in collaboration with Honext: panels made from paper mill waste and produced through a balanced, zero-waste, resin-free process.



www.madewithourcarbon.com

Made with
OurCarbon

The black paint used on this panel is colored with OurCarbon pigment.

Temporary exhibits are often extremely wasteful. This exhibit is designed for disassembly, made with light footprint materials, and is completely recyclable.



500 Reasons why

TEMPORARY INSTALLATION

Client: Domestic Data Streamers
Architect: Domestic data streamers
Supplier: Our-Carbon

Date of completion: October 2021
Location: TEDx Barcelona, Edinburgh
Area: 1000 m²
Sector: Temporary installation

HONEXT® in use

Product: HONEXT® Board
Area: 10 m²
Application: Display

Project description:

Ahead of the crucial 26th UN Climate Change Conference (COP26), the TED Countdown Summit (October 12-15, Edinburgh) is bringing together global leaders in the fight against climate change to explore solutions for a net-zero future. As part of the event, the 500 Reasons Why installation by Domestic Data Streamers will gather reasons to cut down emissions and has been built with OurCarbon-coated HONEXT® boards.



More Information

Please consult the “Technical documents” on our website, at honextmaterial.com/downloads or contact your supplier for further details.

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