



design - MATHILDE WITTOCK OBSERVATORY - sound - material - science

MWCO

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THE STUDIO

MWO is a Brussels-based design studio founded in 2024 by biodesigner Mathilde Wittock, whose work bridges acoustic art, material science and design on an international scale. The studio explores how materials can influence the way we feel, hear and inhabit space. Rooted in circular and ethical values, the atelier develops materials from local, renewable, and repurposed sources, transforming them into acoustic pieces and spatial installations that reconnect the senses through design.

COLLABS

x Wimbledon
x BNP Paribas Fortis
European Open

x Paris Rolex Master
x Apple TV
x Atelier Lionel Jadot
x Marks & Spencer

x Marie's Corner
x Tero
x East Hotel Miami
x Respace



OUR MATTER

Each year, more than 350 million tennis and padel balls are produced worldwide, most discarded after only a few uses. Made from layered rubber and felt, they rarely enter recycling systems. The studio has researched and collaborates with acoustic laboratories to explore how this resource can be given a second life.



SOUNDBOUNCE

Soundbounce is a modular acoustic material designed for furniture, architecture, and spatial installations. It transforms discarded tennis and padel balls into refined, functional surfaces, from wall panels, room dividers to benches and lounge chairs. Each square metre reuses around 283 balls, reducing carbon emissions by approximately 8.5 kg.

The balls are cut in collaboration with local sheltered workshops and dyed in the studio using custom colour recipes that soften their original tone into subtle gradients. Assembled without glue, each component can be dismantled, repaired, and reused, ensuring full circularity and easy maintenance. Tested in acoustic laboratories, the material demonstrates great sound absorption while maintaining a tactile, sensorial presence.

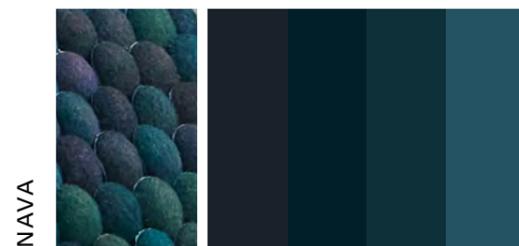
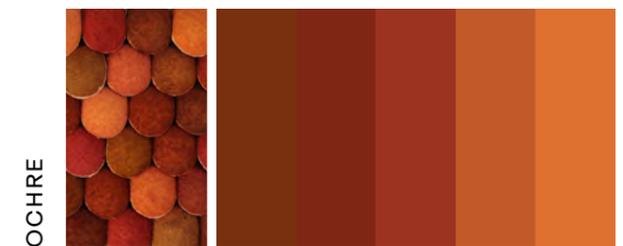
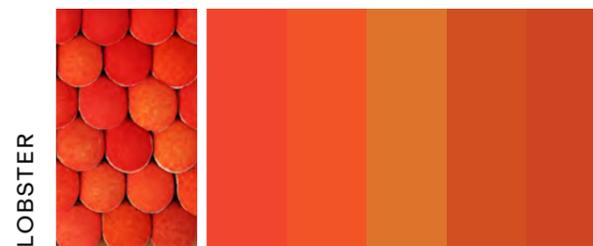
Technology under patent application.



BALL & COLOUR

Available in a range of tonal families — yellow, red, blue, green, purple, turquoise and dark tones and limited editions. Each tone can be combined or contrasted to create custom compositions or gradients.

Custom palettes can be developed on request for specific interiors or brand projects.



WOOD FINISH

All wooden bases are made from Birch or Pine Multiplex, available natural or stained in tones such as oak, mahogany, or black. Each finish is treated with eco-labelled products and sourced from FSC-certified wood.

Custom colours or RAL tones can be developed on request.

PINE NATURAL



BIRCH NATURAL



PINE OAK



BIRCH OAK



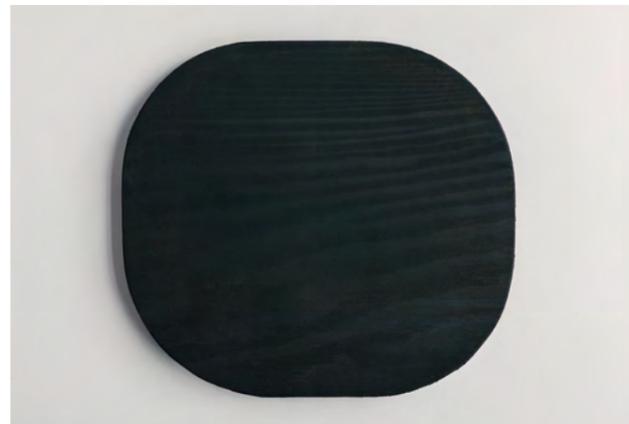
PINE MAHAGONY



BIRCH MAHAGONY



PINE BLACK

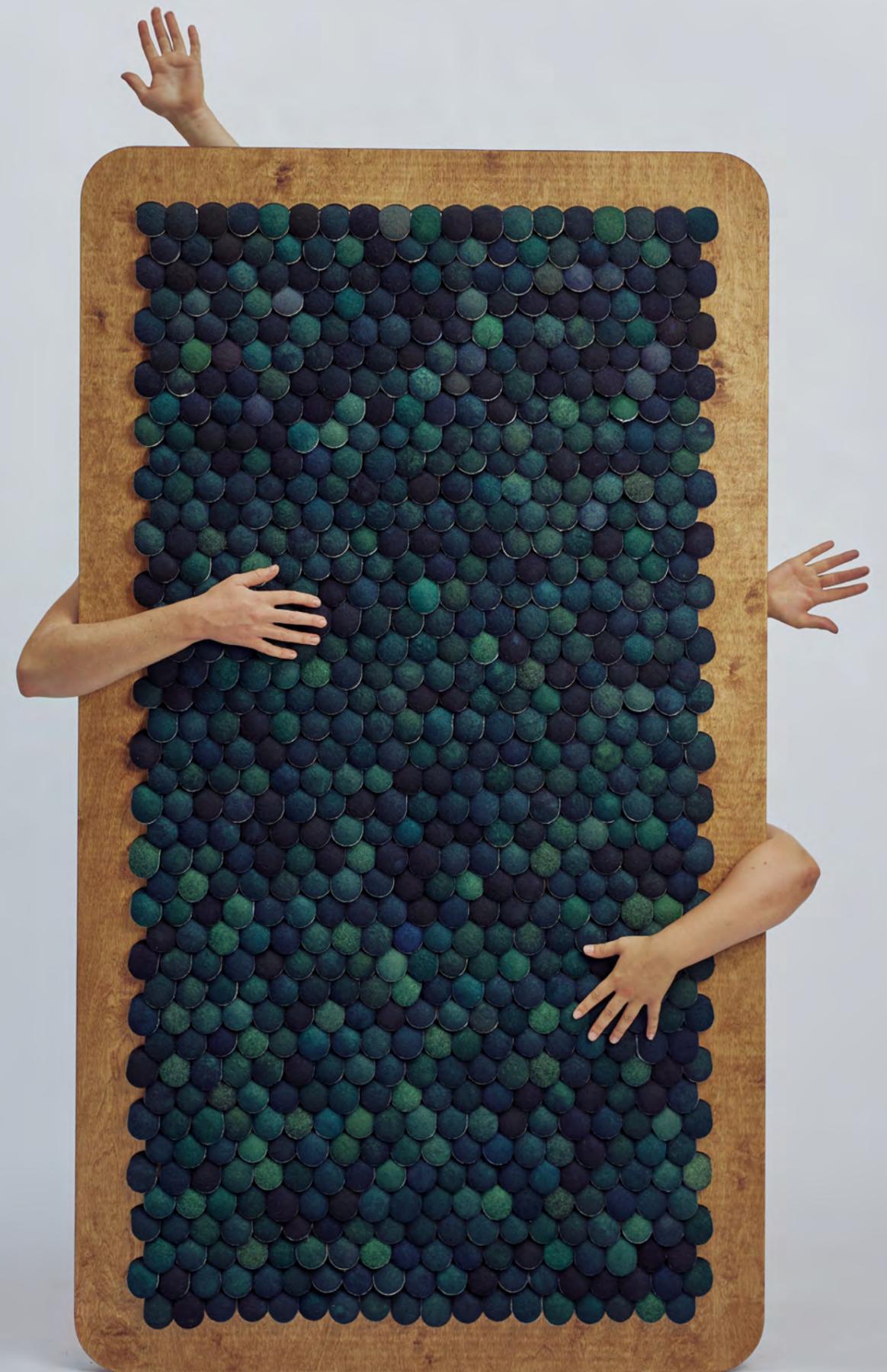


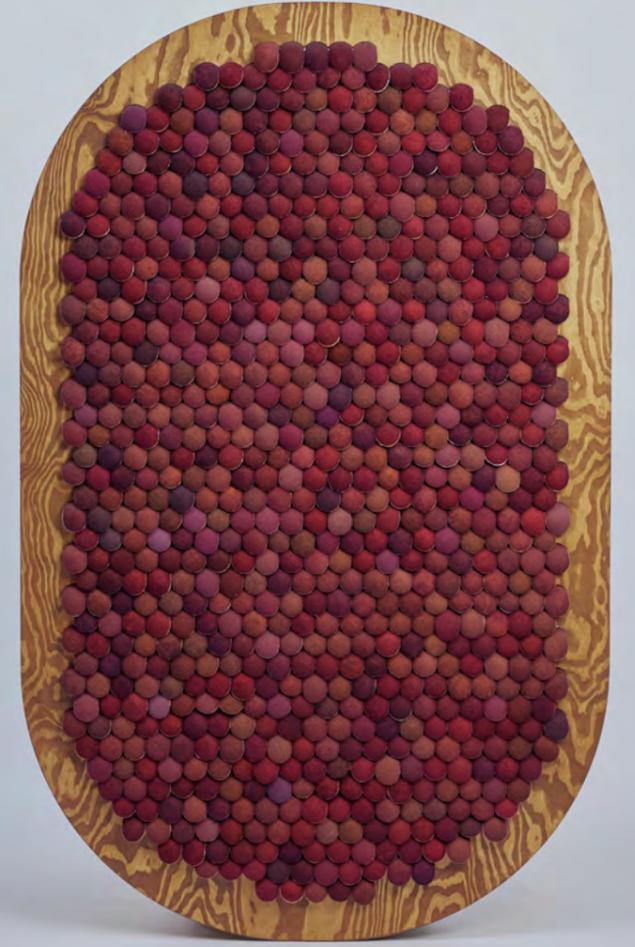
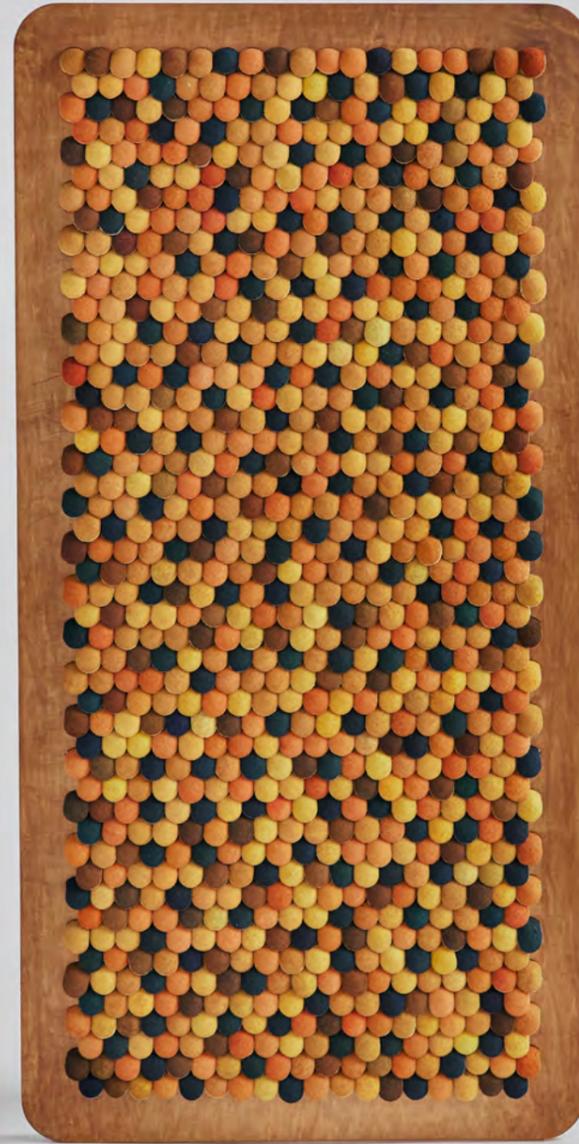
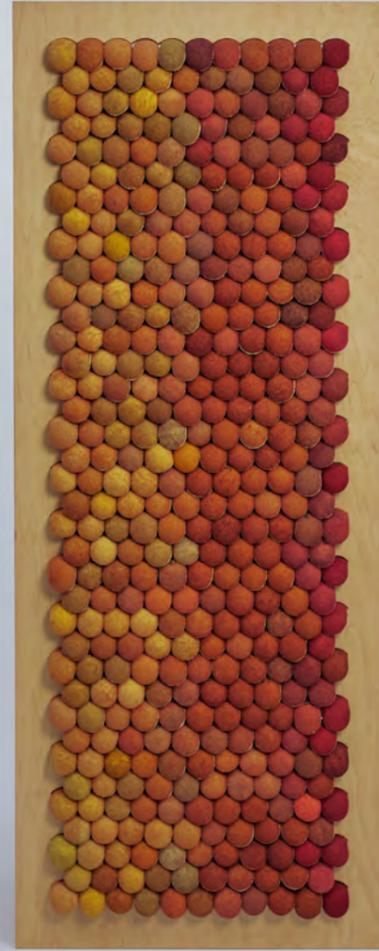
BIRCH BLACK



BOUNCE WALL /M2

Upcycling rate	≈ 283 tennis & padel balls per m ²
Weight	≈ 25 kg / m ²
Wood finish	Select on BALL & COLOUR slide
Ball colours	Select on WOOD FINISH slide
Customization	Dimensions, layout, logo or pattern integration
Production	Handcrafted in Belgium





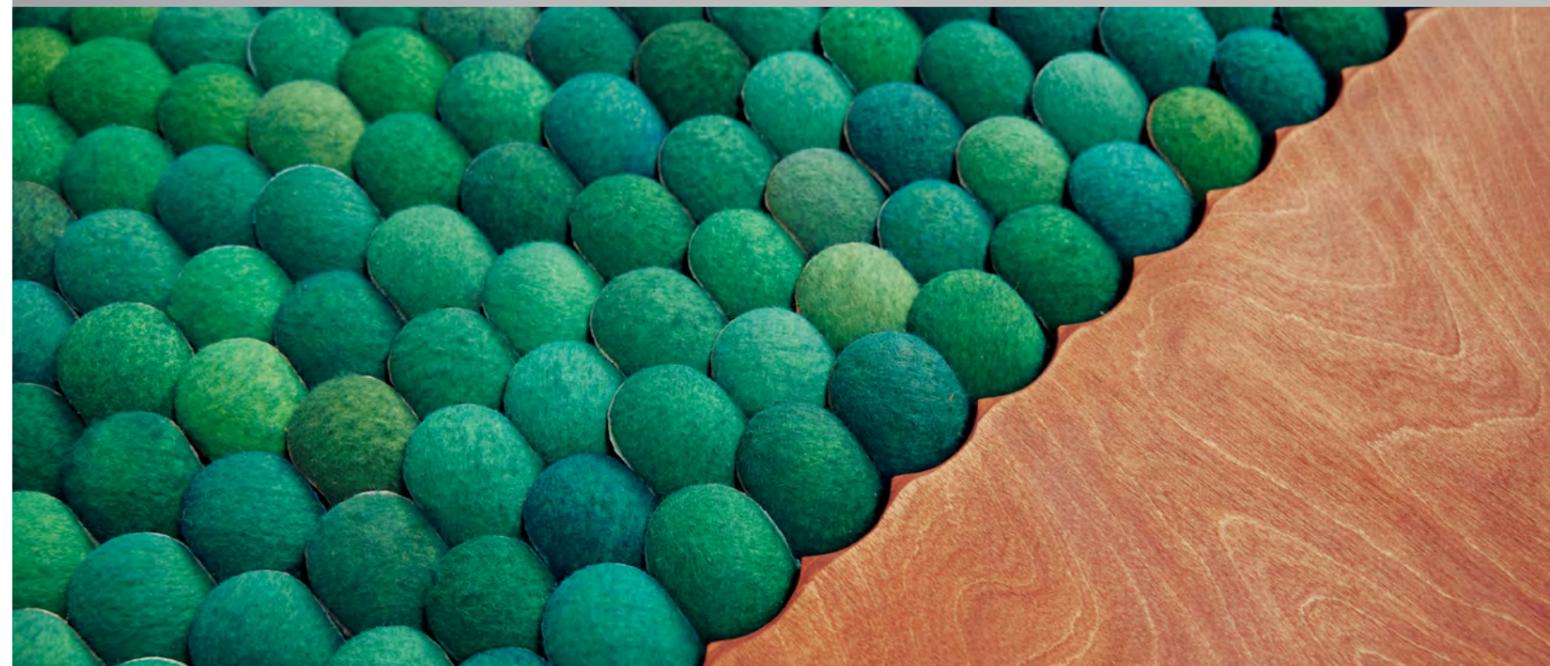
BOUNCE STOOL

Upcycling rate ≈ 95 tennis & padel balls
Dimensions 44 x 36 x 42 cm
Weight ≈ 12 kg
Ball colours Select on BALL & COLOUR slide
Wood Finish Select on WOOD FINISH slide
Assembly Handcrafted in Belgium



BOUNCE LOW TABLE

Upcycling rate	≈ 700 tennis & padel balls
Dimensions	110x150x32 cm
Weight	≈ 60 kg
Ball colours	Select on BALL & COLOUR slide
Wood Finish	Select on WOOD FINISH slide
Assembly	Handcrafted in Belgium





BOUNCE BENCH 120

Upcycling rate	≈ 240 tennis & padel balls
Dimensions	120x49x42 cm
Weight	≈ 27 kg
Ball colours	Select on BALL & COLOUR slide
Wood Finish	Select on WOOD FINISH slide
Assembly	Handcrafted in Belgium





BOUNCE BENCH 180

Upcycling rate	≈ 320 tennis & padel balls
Dimensions	180x49x42 cm
Weight	≈ 38 kg
Ball colours	Select on BALL & COLOUR slide
Wood Finish	Select on WOOD FINISH slide
Assembly	Handcrafted in Belgium





BOUNCE CHAIR

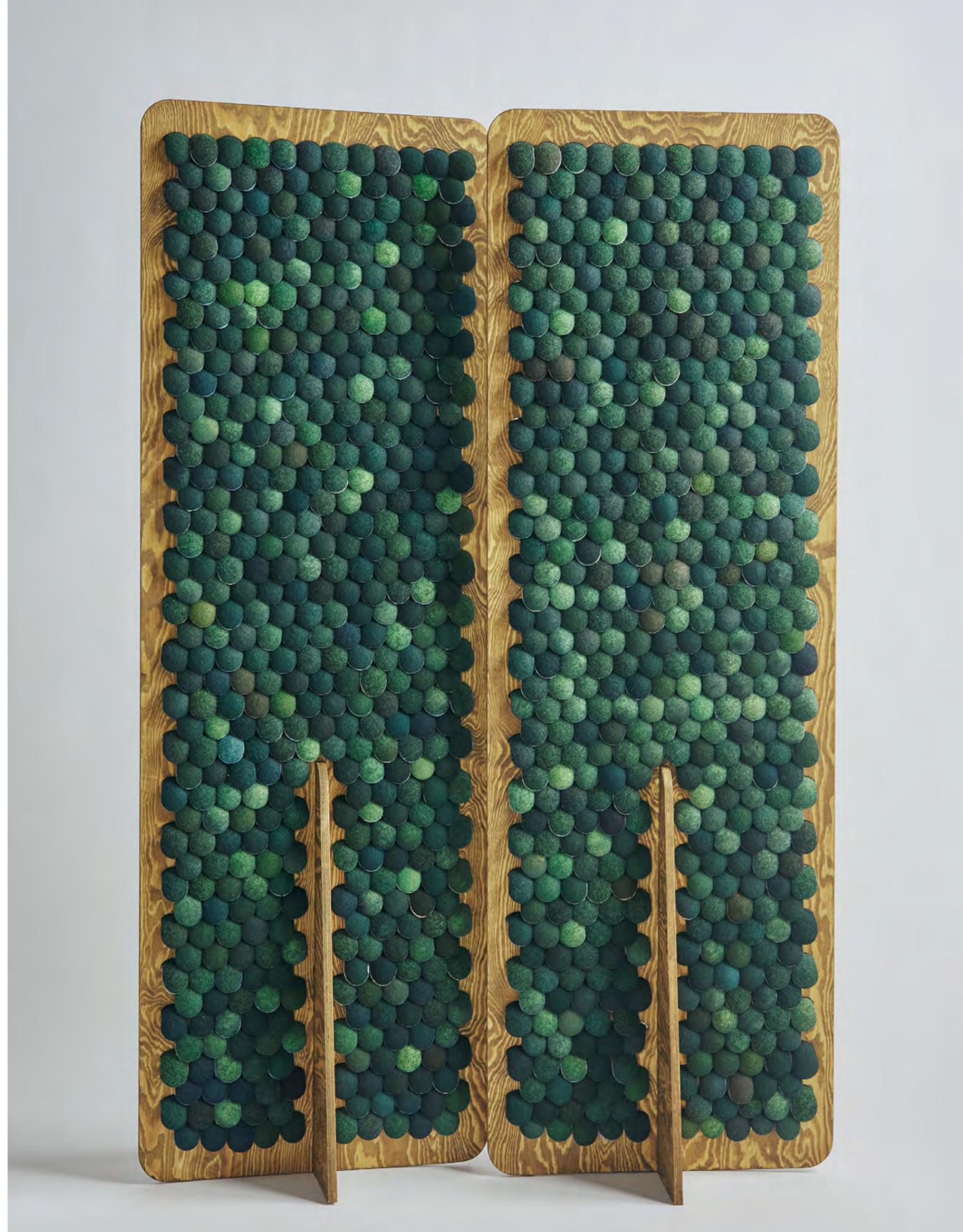
Upcycling rate	≈ 420 tennis & padel balls
Dimensions	140x66x78 cm
Weight	≈ 50 kg
Ball colours	Select on BALL & COLOUR slide
Wood Finish	Select on WOOD FINISH slide
Assembly	Handcrafted in Belgium

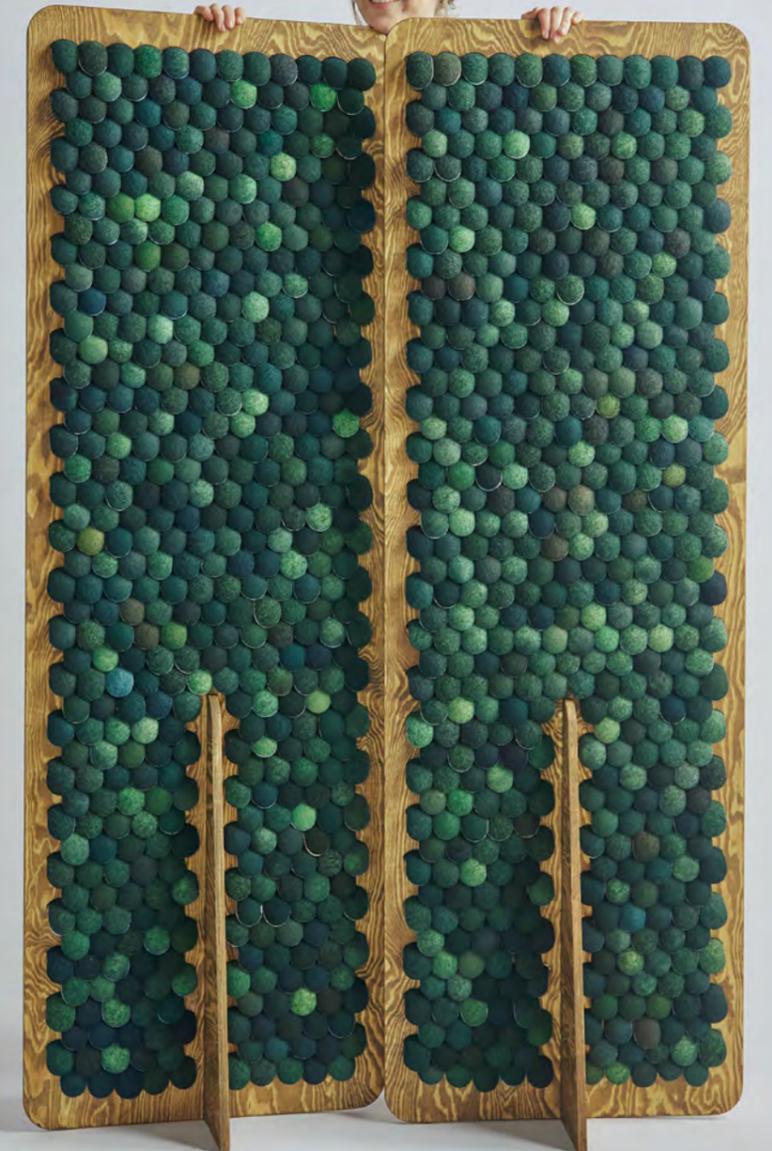
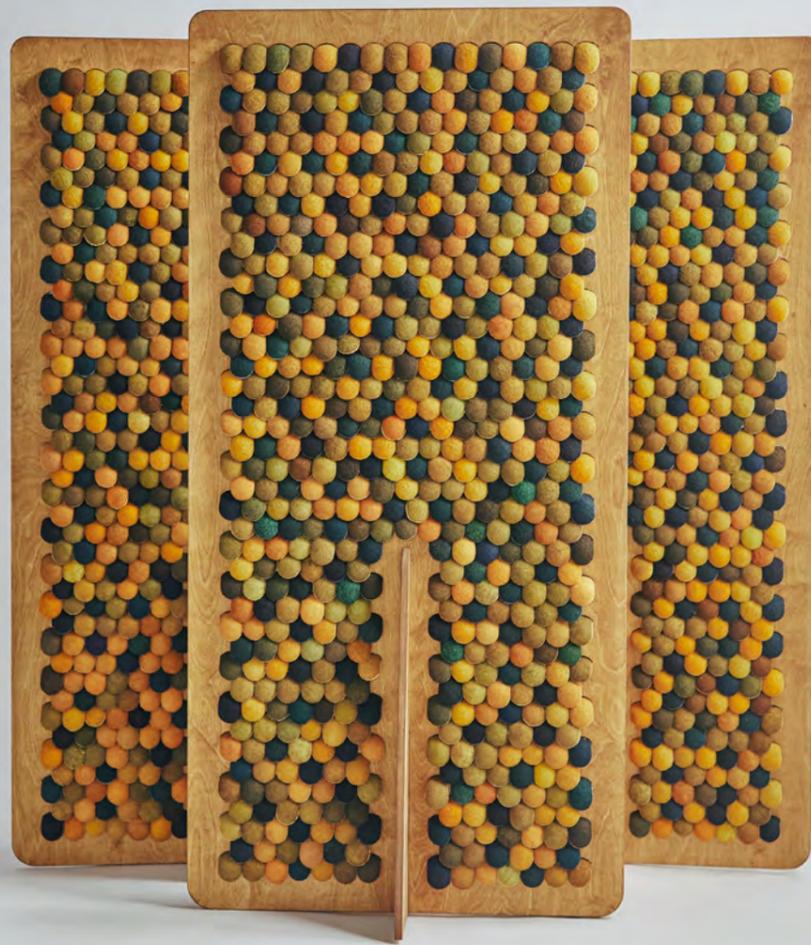




BOUNCE DIVIDER

Upcycling rate	≈ 253 tennis & padel balls/ unit
Dimensions	180x60x32 cm
Weight	≈ 25 kg
Ball colours	Select on BALL & COLOUR slide
Wood Finish	Select on WOOD FINISH slide
Assembly	Handcrafted in Belgium

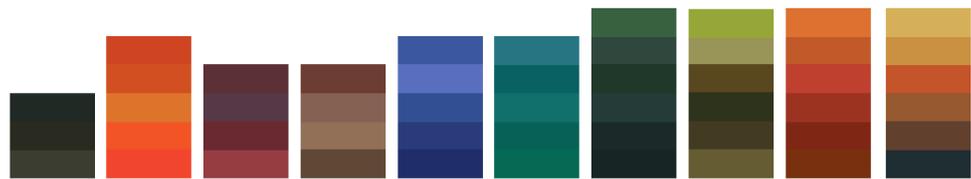




CUSTOM & LOGO

Tennis and padel balls act as 4 cm² pixels, allowing the creation of bespoke patterns, gradients, or logo integrations. Each design is developed to match the project's rhythm, scale, and visual identity. Vector simulations can be provided upon request, with an additional design fee.

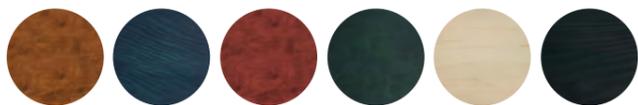
Colours available



Available for logo or gradients

Wood Finish

Oak, Navy, Mahogany, Forest Green, Natural White, and Black finishes are available.



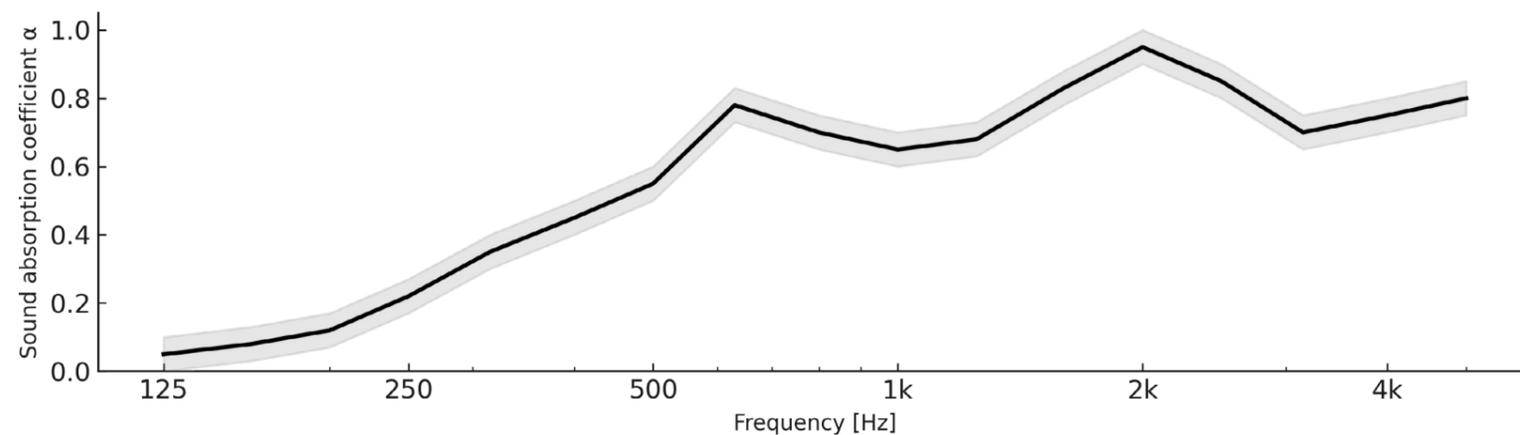
TECHNICAL DATA

Technical Property

Sound absorption coefficient (α)
Thermal conductivity (W/m·K)
Reaction to fire
VOC emissions
Weight
Durability
Maintenance

Description / Value

High absorption across wide frequency range (tested per EN ISO 354)
Low
Good
Low
 $\approx 25 \text{ kg/m}^2$
Robust and impact-resistant
Dry cleaning; replaceable and recyclable elements



Composition & Structure

Acoustic core: Upcycled tennis and padel balls
Structure: FSC-certified wood (Maple, Pine, or Beech)
Finish: Ecological dyes (Oeko-Tex® Standard 100, ZDHC certified)
Assembly: Mechanical (no adhesives), fully demountable and recyclable

Sustainability Data

Upcycling rate: ≈ 283 balls per m^2
CO2 reduction: ≈ 8.5 kg per m^2
Origin: 100% locally produced in Belgium
Circularity: Materials can be separated and reintroduced into production

Acoustic Performance

Soundbounce provides high absorption across a broad frequency spectrum, improving speech clarity and reducing reverberation.

Ideal applications: offices, libraries, classrooms, hotels, and public spaces. Tested according to EN ISO 354 standards.

Product Range

Wall paneling: Custom dimensions
Furniture: Stools, benches, lounge chairs, and modular partitions
Customization: Wood finish (FSC Maple, Pine, Beech), RAL colors, bespoke patterns and logos available

TIME & DELIVERY

Production

Handmade in Belgium, produced on demand to ensure quality and care.

Lead Time

Approx. 4-12 weeks, depending on quantity and project scale.





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