

design - sound - material science

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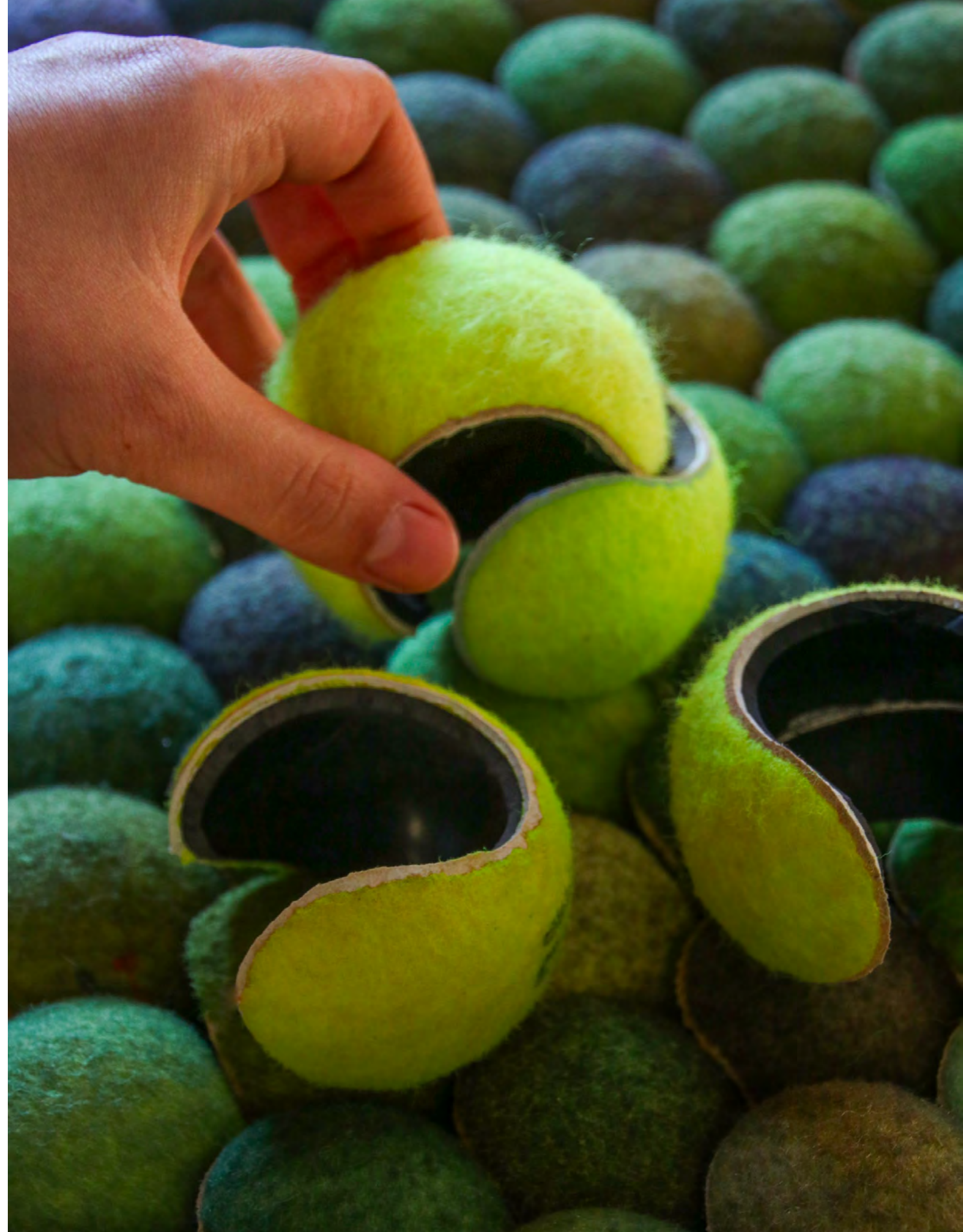
THE STUDIO

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.



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.

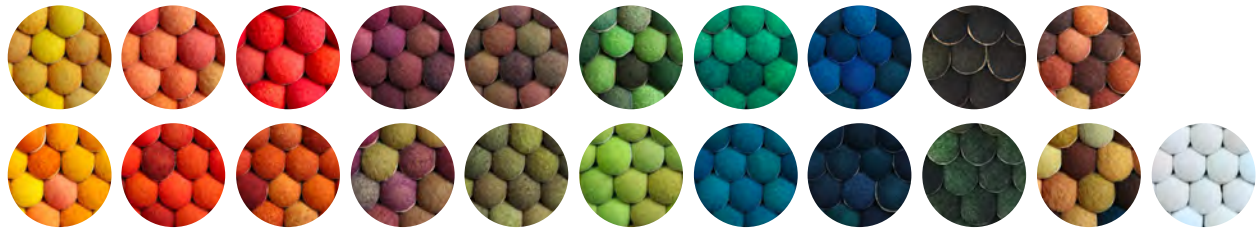


CUSTOM & LOGO

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.

Maximum height per panel: 260 cm. Width is unlimited through seamless multi-section assembly.

Colours available



Wood Finish



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.

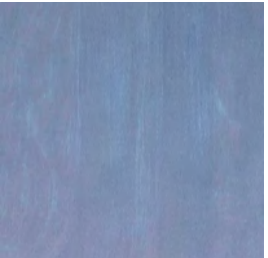
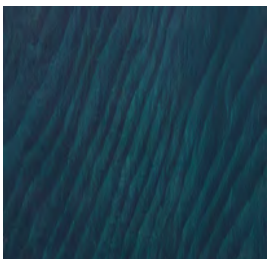
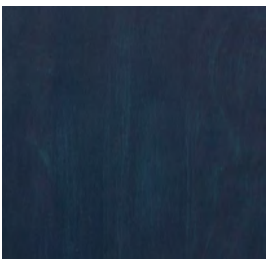
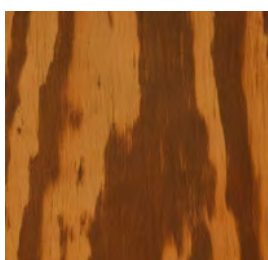
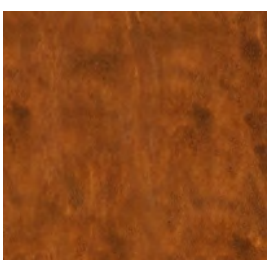
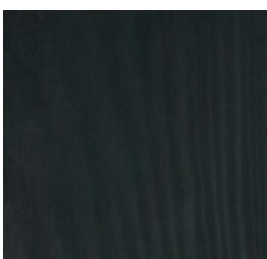
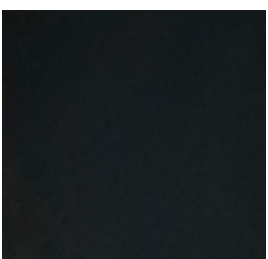
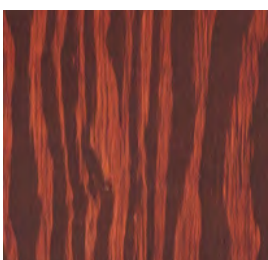
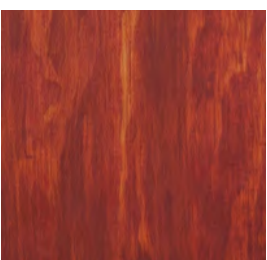
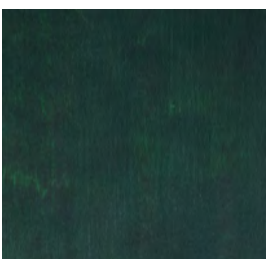
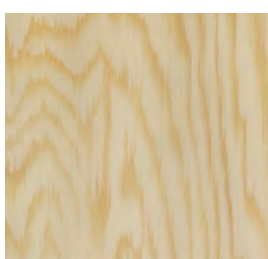
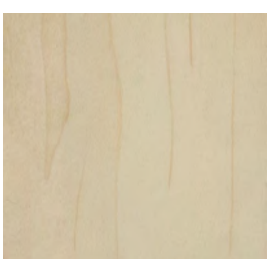
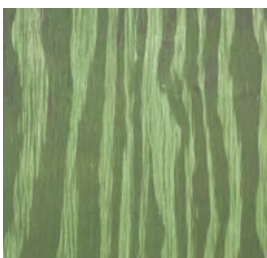
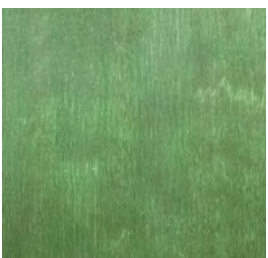


*only for logos or small surfaces

WOOD & FINISH

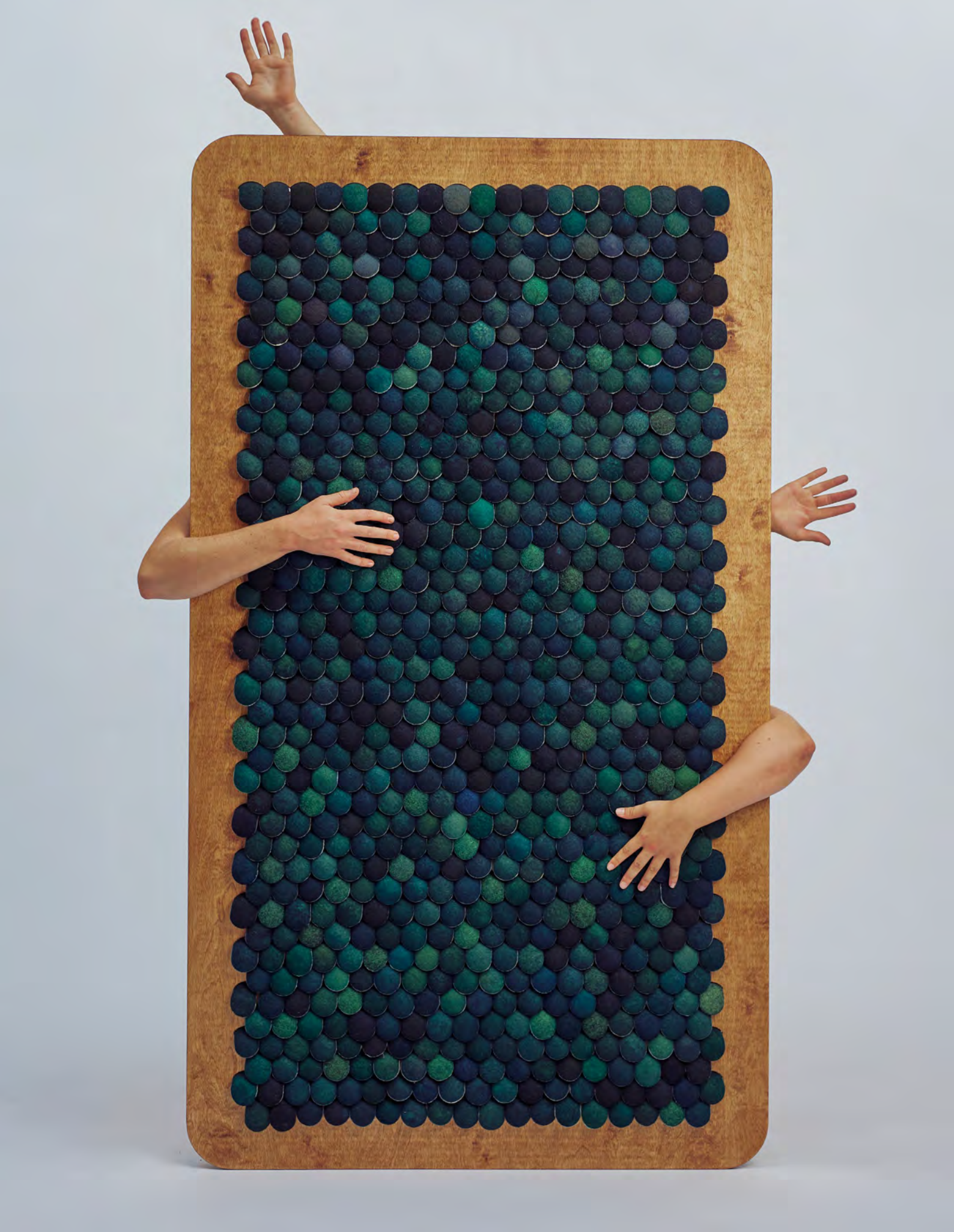
All wooden bases are made from Birch or Pine Multiplex, available natural or stained in tones such as oak, mahogany, or black. Each finish is treated with eco-labelled products and sourced from FSC-certified wood.

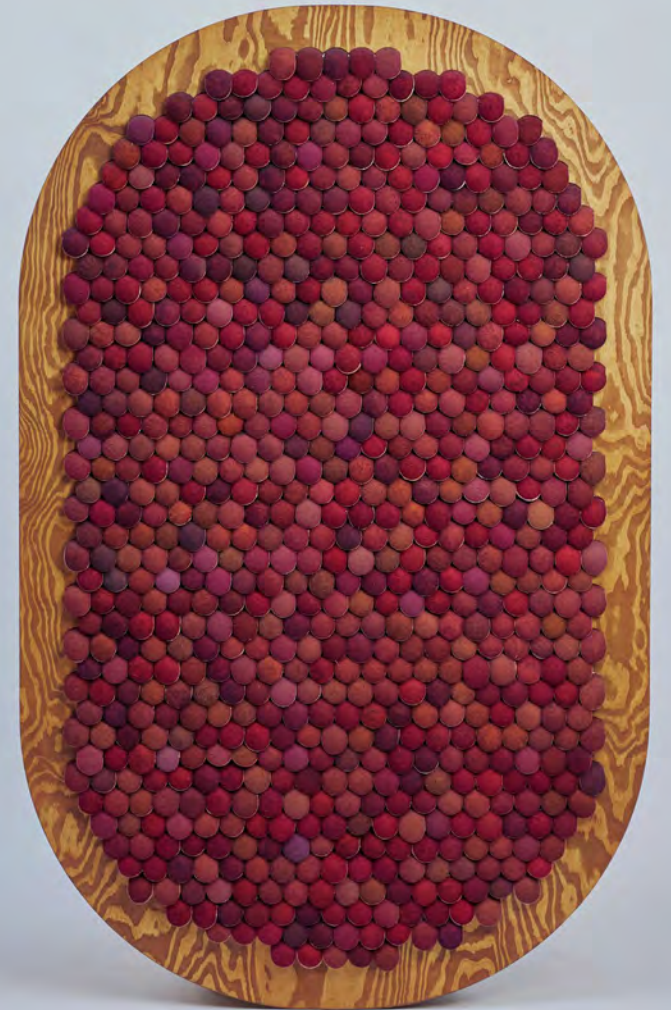
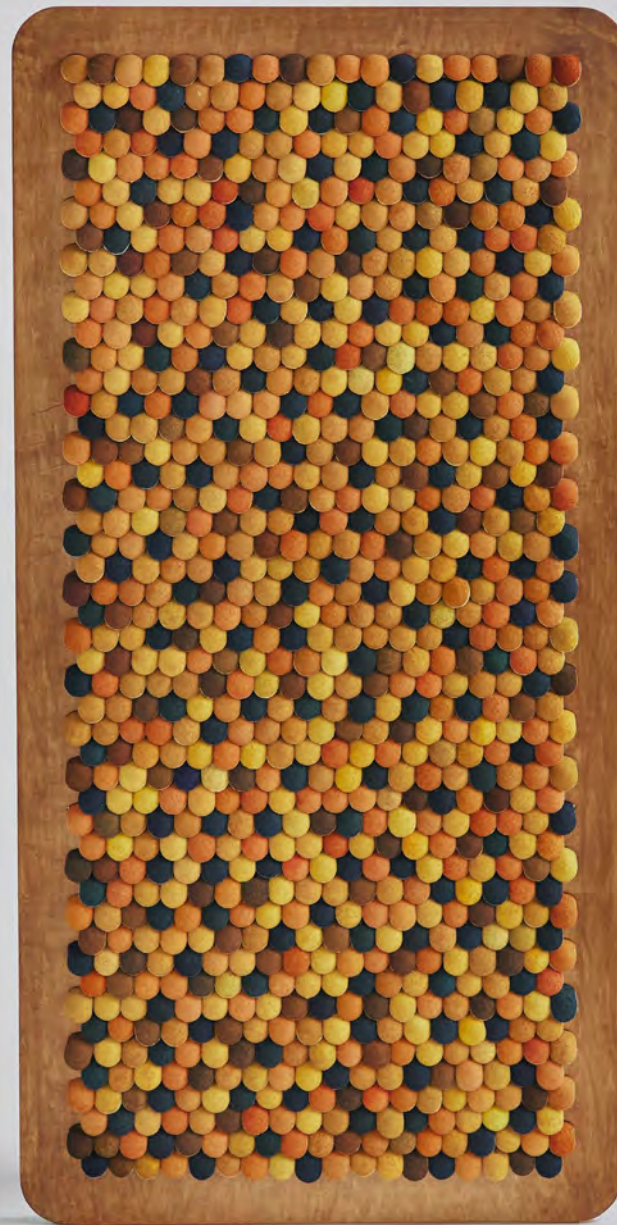
Custom colours or RAL tones can be developed on request.

	PINE WOOD	BIRCH WOOD		PINE WOOD	BIRCH WOOD
YELLOW					
PINK			LILA		
RED			NAVY		
OAK			BLACK		
MAHAGONY			GREEN		
NATURAL			MATCHA		

BOUNCE WALL /M2

Upcycling rate	≈ 283 tennis & padel balls per m²
Weight	≈ 25 kg / m²
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 150

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 LOW TABLE 100

Upcycling rate	≈ 450 tennis & padel balls
Dimensions	106x100x32 cm
Weight	≈ 45 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 140

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 CHAIR 90

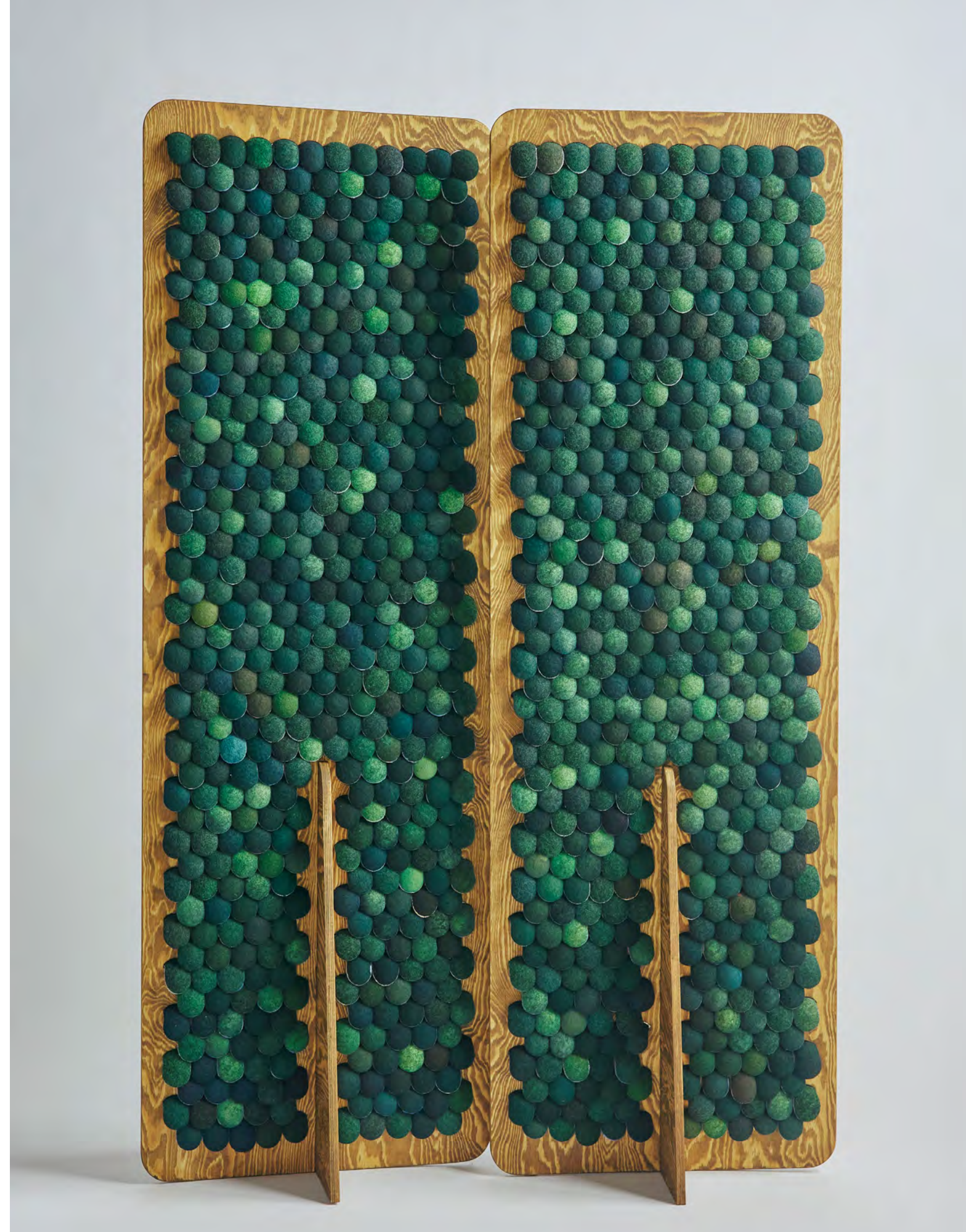
Upcycling rate	≈ 375 tennis & padel balls
Dimensions	87 mm x 67 mm x 80 cm
Weight	≈ 50 kg
Ball colours	Select on BALL COLOUR slide
Wood Finish	Select on WOOD & FINISH slide
Assembly	Handcrafted in Belgium





BOUNCE DIVIDER 60

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



BOUNCE DIVIDER 83

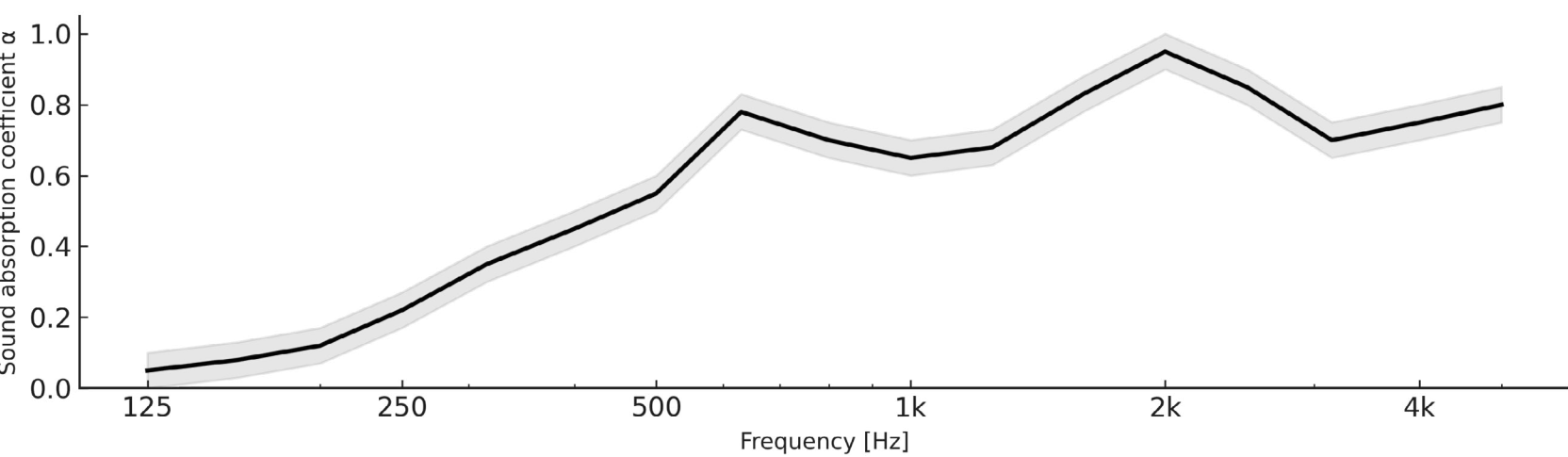
Upcycling rate	≈ 253 tennis & padel balls/ unit
Dimensions	170x83x32 cm
Weight	≈ 25 kg
Ball colours	Select on BALL COLOUR slide
Wood Finish	Select on WOOD & FINISH slide
Assembly	Handcrafted in Belgium





TECHNICAL DATA

Technical Property	Description / Value
Sound absorption coefficient (α)	High absorption across wide frequency range (tested per EN ISO 354)
Thermal conductivity (W/m·K)	Low
Reaction to fire	Good
VOC emissions	Low
Weight	≈ 25 kg /m²
Durability	Robust and impact-resistant
Maintenance	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 m²
CO2 reduction: ≈ 8.5 kg per m²
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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