M-SEEN®

Let better Material can be seen

2025

Sustainable Materials

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M-SEEN is a leading builder of circular economy and sustainable material operating systems in China, dedicated to transforming waste into high-value, low-carbon new materials and standardized products. Through digital systems, we achieve closed-loop tracking from source to recycling.

Amid growing resource pressures and environmental challenges, we believe that sustainability does not mean lowering standards but redefining value.

A coffee ground panel, a wall made from discarded textiles, the rebirth of an advertising banner—behind these innovations lies not just technical craftsmanship but a material philosophy that takes responsibility for the environment and the future.

We are a group of conscientious practitioners from diverse fields such as design, engineering, materials, and branding, focused on redefining waste and systematically implementing material solutions. We are not a platform, nor merely a lab, but a sustainable materials enterprise that provides real-world solutions to practical problems, driving the industry toward genuine low-carbon transformation.

M-SEEN makes better materials visible and connects resources, design, and responsibility into tangible reality.

PARTNERS

My-loop

Waste Stream

Material X Lab

Sustainable Materials Lab

M-seen

Sustainable Materials

INDUSTRIAL LAYOUT

M-Seen, as an innovative pioneer in China's new sustainable materials sector, has established a highly efficient nationwide industrial network. With its Yangtze River Delta R&D Center serving as the technological core, the company has built multiple regional eco-material production bases by leveraging the abundant biomass resources of central and western China.

Currently, M-Seen operates 13 key nodes across the country, covering the entire industrial chain from raw material procurement and material research to large-scale production.

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My-Loop

Waste Recycling Service

MY-LOOP is a digital platform dedicated to waste recycling and regeneration, providing transparent, secure, and standardized waste management services. Through innovative materials and sustainable solutions, we transform waste into valuable resources, maximizing environmental, social, and economic benefits.

part 01.

Transparency: Full Traceability

The MY-LOOP platform employs a QR code tracking system to ensure high transparency at every stage of waste management. From waste collection and regeneration to the delivery of final products, the platform enables customers to monitor the processing status of each step in real time. This not only enhances the transparency of waste management but also allows for precise tracking and recording of environmental impact data and recycling metrics.

1

Parcel Information Registration

When a waste package is generated, staff will assign a unique QR code to each package for information registration.

2

QR Code Scanning and Data Entry

Scan the QR code on the package to record its basic information (including material type, weight, source, etc.), generating traceable data logs to support subsequent processes.

3

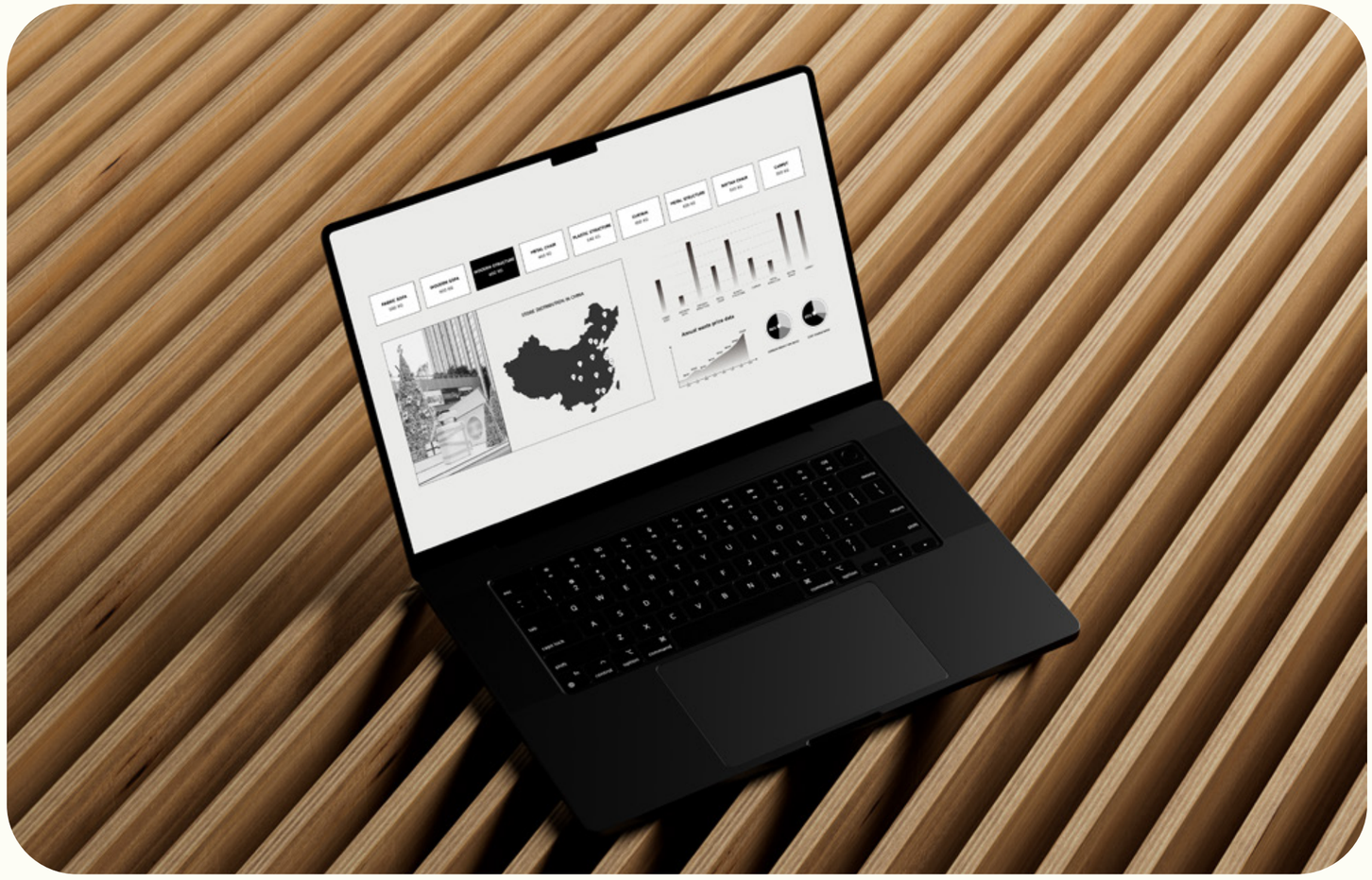
Inbound Scan Management

When waste packages arrive at the processing facility, staff scan their QR codes to complete the system's inbound registration. The system automatically records arrival times, storage locations, and subsequent handling stages, enabling end-to-end digital tracking.

4

End-to-End QR Code Node Tracking

At each stage of waste processing (such as sorting, transportation, and recycling), staff must scan the QR code on the packages. The system will automatically record the current operational node, timestamp, and responsible personnel, ensuring end-to-end closed-loop traceability from collection to regeneration.



Real-Time Data Visualization

Through the platform's real-time data updates, customers can track the latest progress of waste processing and view relevant environmental metrics at any time.

This highly transparent management approach ensures seamless integration of the waste handling process. Customers can confidently track the disposal pathway and treatment outcomes, with the assurance that all data is authentic and reliable.

Security: Strict Control at Every Stage

Throughout MY-LOOP's waste regeneration process, safety remains our foremost priority. From collection and transportation to treatment and transformation, every step strictly adheres to international standards and industry regulations. All services provided by the platform comply with relevant laws and regulations, including environmental protection and workplace safety laws, ensuring both operational safety and environmental friendliness throughout the entire process.

Security Assurance

Waste Classification and Treatment Standards

Tailored recycling and treatment solutions are developed for different types of waste materials (such as garment scraps, perfume bottles, old carpets, etc.), ensuring the safest and most appropriate processing method is applied to each waste stream.

Transportation and Storage

All waste materials are transported and stored in full compliance with national environmental safety standards to prevent secondary pollution or potential safety hazards.

Through these safety guarantees, the MY-LOOP platform provides customers with a reliable and secure waste management pathway, ensuring that every waste recycling service meets a zero-pollution standard.

Sustainability: Driving Green Development and Resource Circulation

MY-LOOP is not merely a digital platform for waste recycling and regeneration, but a vital tool for advancing the circular economy and sustainable development. By transforming waste into renewed resources and closing material loops, we enable clients to fulfill their corporate environmental responsibilities while driving efficient resource utilization and widespread adoption of recycled materials.

Sustainability Advantages

Landfill Reduction

By reusing waste materials, we significantly reduce landfill and incineration, thereby minimizing environmental pollution.

Green Materials and Products

The ultimate goal of MY-LOOP's services is to transform waste into practical recycled materials—such as waste-based fiberboards, recycled nylon carpets, and reprocessed glass—as well as eco-friendly products. This initiative drives sustainable development in low-carbon construction, green home furnishing, and related fields.

Resource Reuse

Helping businesses transform waste into high-value products, achieving closed-loop resource cycles, and reducing dependence on natural resources.

We consistently adhere to the principle of "Reduce, Reuse, Recycle" to promote sustainable waste management and continuously improve resource recovery and regeneration rates.

Innovation: Pioneering High-Value Waste Upcycling

The MY-LOOP platform not only provides traditional waste recycling services but also drives high-value waste upcycling through innovative technologies. We go beyond mere waste recovery by focusing on the innovative application of recycled materials, transforming them into high-value-added products such as building materials, home furnishings, and cultural and creative goods.

创新应用案例

Innovative Application Cases

Through the recycling and reprocessing of discarded textiles, they are transformed into high-strength building materials or interior decoration materials.

Recycling and Reuse of Tyvek

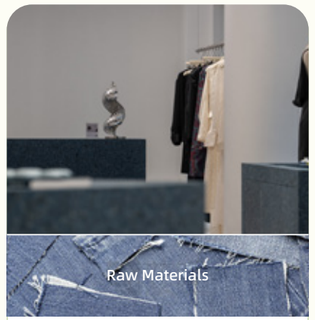
Recycled Tyvek is transformed into unique cultural and creative products, such as eco-friendly bags and limited-edition umbrellas, which not only meet environmental needs but also possess commercial value.

Recycled Carpet Applications

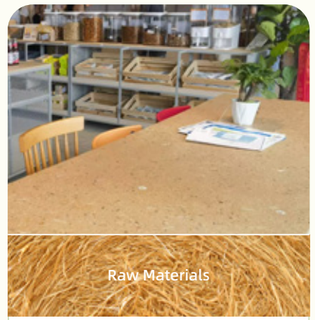
Reclaiming fibers and nylon from discarded carpets and transforming them into new carpeting or architectural decoration materials not only reduces waste but also meets market demand.

These innovative upcycled products not only meet environmental standards but also demonstrate strong market competitiveness in both design and functionality, thereby driving the widespread adoption of green design principles.

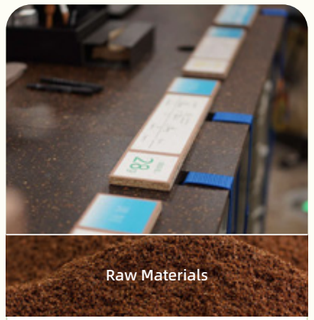
WASTE RECYCLING PRODUCTS



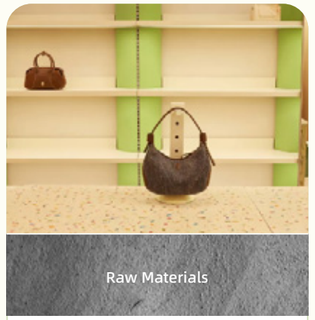
DENIM RECYCLING



FLORAL WASTE RECYCLING

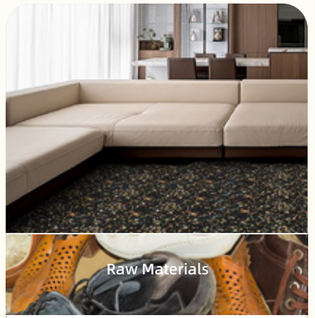


COFFEE GROUNDS RECYCLING



CONCRETE RECYCLING

ELEPHANT DUNG RECYCLING



RUBBER RECYCLING

FISHING NET RECYCLING

PLASTIC RECYCLING

GLASS RECYCLING

ADVERTISING BANNER RECYCLING

RECYCLING AND RECONSTRUCTION OF ELEPHANT FECES

HONGSHAN FOREST ZOO

TREE RECYCLING AND RECONSTRUCTION

HONGSHAN FOREST ZOO

COWBOY RECYCLING AND REMANUFACTURING

INDIGO PAVILION

CARPET RECYCLING AND RECONSTRUCTION

FAURECIA

RECYCLING AND REMANUFACTURING OF WASTE TEXTILES

AN KO RAU

STAINLESS STEEL RECYCLING AND REMANUFACTURING

HONGSHAN FOREST ZOO

RECYCLING AND REMANUFACTURING OF WASTE TEXTILES

GU LIANG JI JI

RECYCLING AND RECONSTRUCTION OF ADVERTISING FABRICS

TYVEK

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Material X Lab

Initiated by M-Seen, the Material X Sustainable Materials Lab specializes in the research, development, and application strategies of sustainable materials, with a particular focus on the high-value reuse of waste. The lab aims to address challenges in material recycling and the development of eco-friendly products from the source, providing clients with professional and systematic sustainable material solutions.

part 02.

INDUSTRY ACHIEVEMENTS

Product Development

Foresight Report

standard for building
carbon emission caleulation

EVENT INFORMATION

MATERIAL X LAB SUSTAINABLE MATERIALS LAUNCH

As global environmental issues become increasingly severe, finding sustainable development solutions has become an urgent task. As a pioneer in this field, M-SEEN aims to transform waste into high-value resources through innovative material technologies, thereby reducing negative environmental impacts and driving the realization of sustainable development.

2025/2028 SUSTAINABLE MATERIALS TRENDS LAUNCH EVENT

Against the backdrop of sustainable design principles becoming industry standards globally, material applications in architecture, home furnishing, interior design, and industrial design continue to witness innovations. This event, hosted by MATERIALXLAB in collaboration with renowned global design institutions and expert teams, will comprehensively showcase cutting-edge industry insights through trend releases, cross-disciplinary workshops, and material exhibitions, aiming to promote the widespread adoption and application of sustainable design.

MATERIAL X LAB SPRING 2025 UPDATES

This spring, MaterialXLab (abbreviated as MXL) will showcase at a series of future-oriented sustainable materials and design events. From Guangzhou to Shanghai, and then to Chengdu, we will present designers, brands, and the public with a multidimensional demonstration of how "sustainability" is gaining powerful vitality in the new wave of design and material transformation. Below, we will share our key activities from March to April, along with in-depth reflections on the philosophy and application of sustainable materials.

SUSTAINABLE MATERIALS TRENDS REPORT

This report presents a trend study on materials in the architectural field, where the broad definition of "architecture" encompasses not only traditional buildings but also interior spaces, home furnishings, and other dimensions.

Furthermore, our trend report examines the future development of materials in architecture through two key perspectives: sustainable materials and sustainable applications, offering insights into the most influential material trends for the coming years.

EVENT PHOTOS











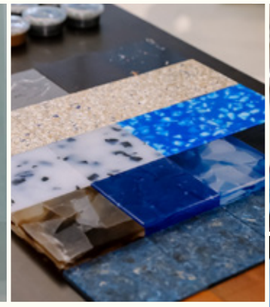
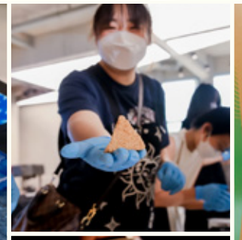



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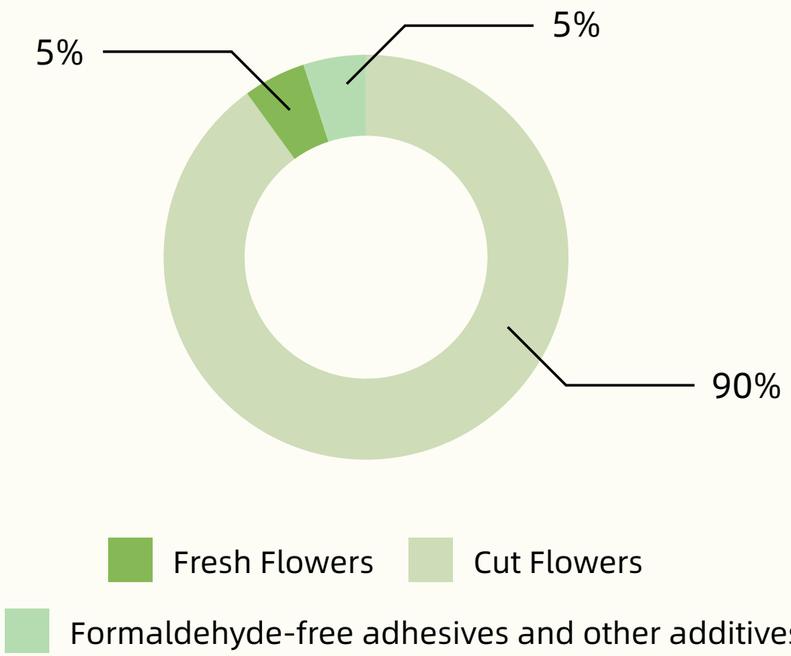
SUSTAINABLE MATERIALS

These products, crafted with the principles of the circular economy, strictly adhere to international environmental standards and have obtained authoritative certifications such as the Global Recycled Standard (GRS). Moreover, breakthroughs in performance and aesthetics have been achieved through innovative material formulations and process optimization, ensuring their durability and functionality are fully comparable to those of traditional materials.

FLOWER STRAW BOARD



Material Advantages

A material with a natural aroma, composed of over 95% agricultural and forestry waste—including straw, corn stalks, dried rice straw, and wild mountain flowers.

Sensory Experience	Professional Expertise
Gloss Level: Low Sheen / Semi-Matte Acoustics: Effective Sound Insulation	Fire Resistance & Flame Retardancy Sustainability Index: ★★★★★

Application Scenarios

Interior Decoration, Furniture Panels, etc.

Product Information

- Material Dimensions: 2400 × 1200 × 18 mm
- Lead Time: 30 days

Installation Methods

Adhesive bonding with pneumatic nail gun assistance

Back-mounted auxiliary board with nail gun installation

Interlocking groove system

Dedicated metal/plastic hanging components

Daily Use and Maintenance

Avoid outdoor exposure and sharp objects.

Store flat in dry, cool shade.

Clean with dry/damp cloth; use alcohol for stains.

Keep away from heat, flames, and chemicals.

Key Material Performance Parameters

TVOC ≤ 100mg/m³ Toluene ≤ 20mg/m³

Xylene ≤ 20mg/m³ Moisture Content: 4–13%

MOR (Modulus of Rupture) ≥ 13–15MPa

Screw Holding Capacity: Face ≥ 900N Edge ≥ 600N

Post-Use Disposal Methods

We offer recycling services and transform materials into new products, enabling sustainable utilization throughout the entire lifecycle of material products.

STOP SHOP的可持续社区

Sustainable communities grow in STOP SHOP

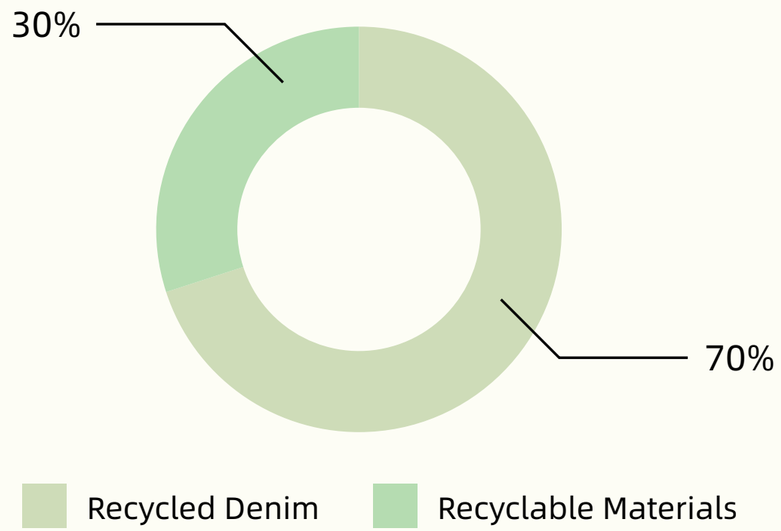
开业大吉

STOP friends

SHANGHAI

上海

DENIM TRIM PANEL



Material Advantages

A closed-loop system for converting waste textiles into new recycled materials, effectively reducing reliance on petroleum resources. Colors and textures may exhibit natural variations.

Sensory Experience	Professional Expertise
Gloss Level: Low Sheen / Semi-Matte Acoustics: Effective Sound Insulation	Flexibility: Suitable for curved surface design Sustainability Index:★★★★★

Application Scenarios

Interior Decoration and Furniture Panels

Product Information

- Material Dimensions: 2400 × 1200 × 3–4 mm
- Lead Time: 30 days

Installation Methods

Installation:

Use construction adhesive.

Care:

Avoid surface stains.

Clean with soft damp cloth if needed.

Daily Use and Maintenance

Care Guide:

- Avoid outdoor exposure & sharp objects
- Store flat; clean with dry/damp cloth
- Remove oil stains with alcohol
- Keep unused panels in dry, cool shade
- Elevate from ground; away from heat/flames/chemicals

Key Material Performance Parameters

FIGRA ≤30m^2/s^2

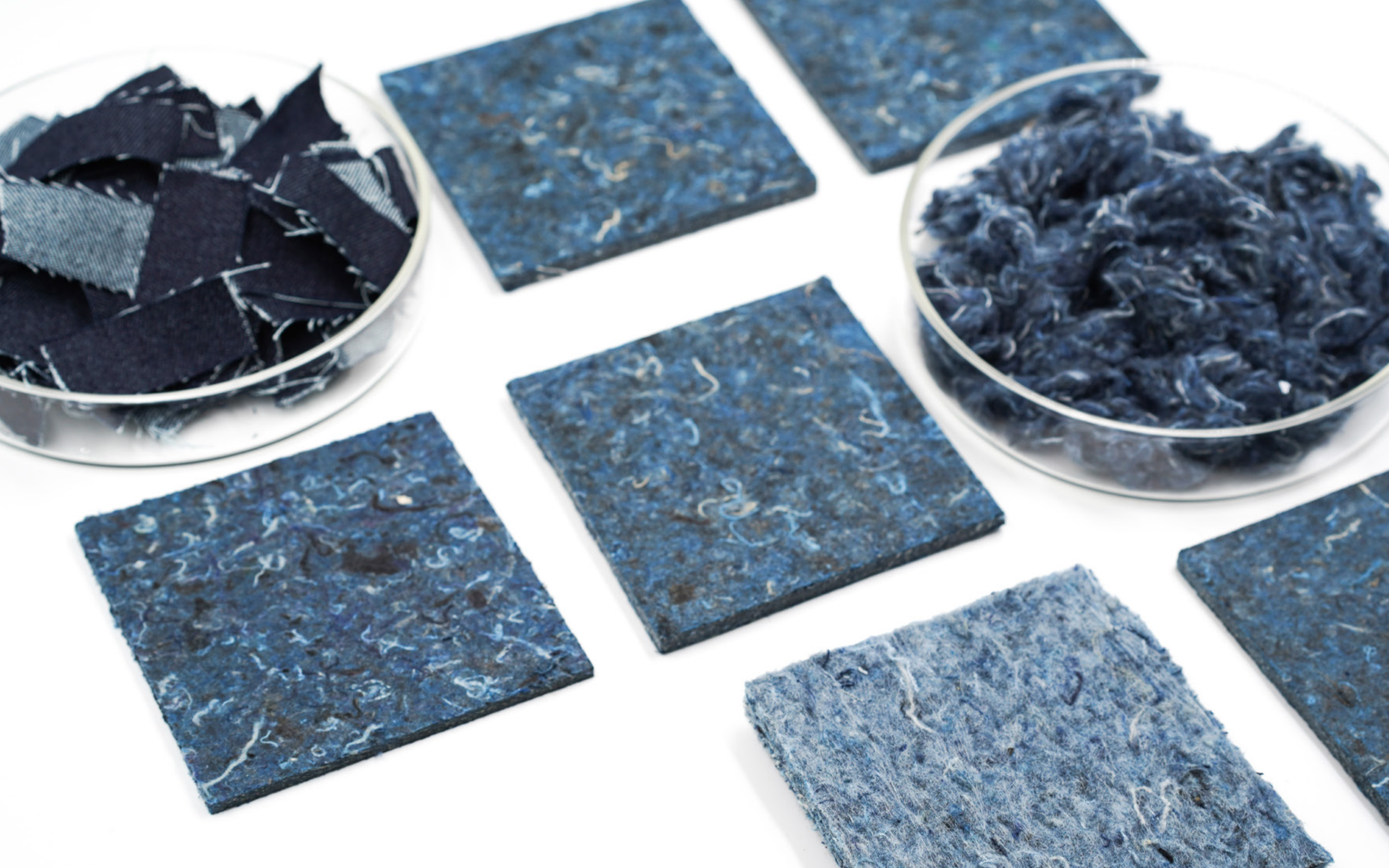
Total Smoke (600s) ≤50m^2

VOCs & Formaldehyde: Not Detected

Ref: GB/T 18696.1, GB/T 29899, GB/T 2912.1

Post-Use Disposal Methods

We offer recycling services and transform materials into new products, enabling sustainable utilization throughout the entire lifecycle of material products.

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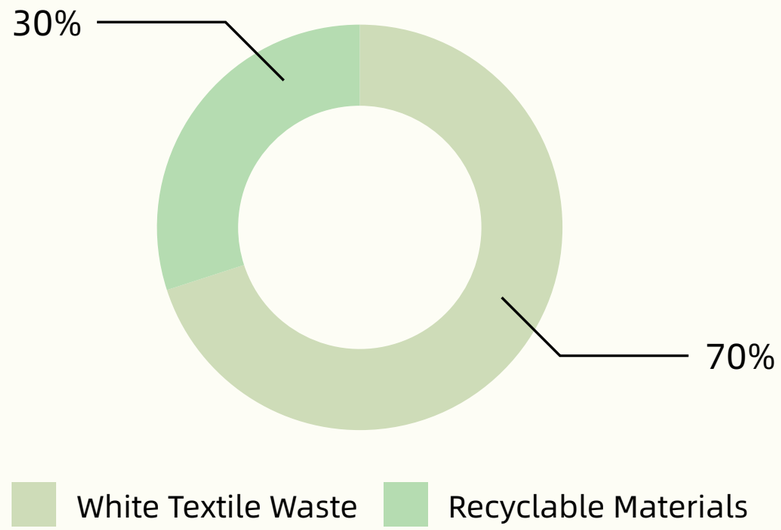
WHITE WASTE SPINNING BOARD



Material Advantages

Closed-loop textile recycling transforms waste fabrics into new materials, reducing reliance on petroleum resources. Colors and textures may vary naturally.

Sensory Experience	Professional Expertise
Gloss Level: Low Sheen / Semi-Matte Acoustics: Effective Sound Insulation	Flexibility: Suitable for curved surface design Sustainability Index:★★★★★

Application Scenarios

Interior Decoration & Furniture Panels

Product Information

- Material Dimensions: 2400 × 1200 × 4 mm
- Lead Time: 30 days

Post-Use Disposal Methods

We offer recycling services and transform materials into new products, enabling sustainable utilization throughout the entire lifecycle of material products.

Installation Methods

Use construction adhesive

Protect surface from stains

Clean with damp cloth if needed

Daily Use and Maintenance

Avoid outdoor exposure & sharp objects

Store flat; clean with dry/damp cloth

Remove oil stains with alcohol

Keep unused panels in dry, cool shade

Elevate from ground; away from heat/flames/chemicals

Key Material Performance Parameters

FIGRA ≤30 m^2/s^2

Total smoke (600s) ≤50 m^2

Benzene/Toluene/Xylene: Not detected

Formaldehyde: Not detected

Standards: GB/T 18696.1, GB/T 29899, GB/T 2912.1

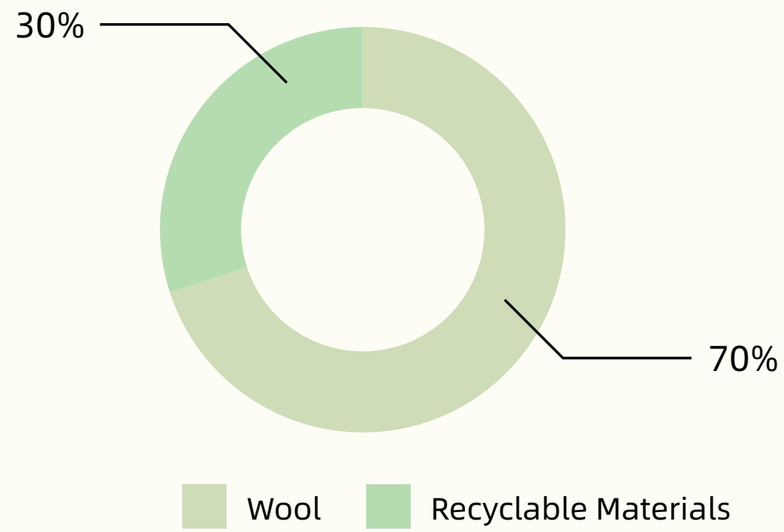

SusMo
2024
Sustain
the Motion
更多内容请至上生新所 10 号楼西楼 402 403
7/21-10/15 11:00-16:00
上海市长宁区延安西路 1262 号上生新所 10 号楼 402 403
Room 402 403, Building 10, No. 1262 Yan'an West Road,
Changning District, Shanghai
An
Ko
Rau
SusMo
Susmo —— Sustain the Motion，代表着我们将在不同单
度与不同类型的伙伴进行持续性的共创，每个朋友都可
以通过这个连接「运动」起来；各种想法与行动经过交汇，
能够产生更多正向反应，并为大家带来持续前进的力量。
我们一直在探索「动」与「静」之间的关系：通过持续
的运动能够感受到内心深处的平静，经由「静」的休整，
又能够继续获得动起来的力量。二者周而复始，形成循
环——这是我们能够持续感受产生连接的基础，我们欣
赏这个节奏不断产生积极的变化，并依此跟周围环境与
同行业的伙伴产生互相支持的连接。
这次我们邀请了很多朋友聚在一起，在不同的方向开始
持续的探索，这是我们始终在坚持、以及希望更多人关
注并参与进来的地
An
Ko
Rau

社会支持


SusMo
Susmo —— Sustain the Motion，

可持续
老木头
剩余面料
Goes Green
连接的可持续
Out of the box
实习的小伙伴们
「Hejmo定制服务」
customize your hejmo
此处展示的为Hejmo家族中一40L户外背包在徒步中可以收纳的所需物品
X4 Pack Fabrics

WOOL SOUND-ABSORBING BOARD



Material Advantages

Closed-loop wool recycling transforms waste wool into new materials, reducing reliance on petroleum resources. Colors and textures may vary naturally.

Sensory Experience	Professional Expertise
Gloss Level: Low Sheen / Semi-Matte Acoustics: Effective Sound Insulation	Fire Resistance: Good Sustainability Index: ★★★★★

Application Scenarios

Interior Decoration & Furniture Panels

Product Information

- Material Dimensions: 2400 × 1200 × 4 mm
- Lead Time: 30 days

Post-Use Disposal Methods

We offer recycling services and transform materials into new products, enabling sustainable utilization throughout the entire lifecycle of material products.

Installation Methods

Use construction adhesive

Protect surface from stains

Clean with damp cloth if needed

Daily Use and Maintenance

Avoid outdoor exposure & sharp objects

Store flat; clean with dry/damp cloth

Remove oil stains with alcohol

Keep unused panels in dry, cool shade

Elevate from ground; away from heat/flames/chemicals

Key Material Performance Parameters

FIGRA ≤30 m^2/s^2

Total smoke (600s) ≤50 m^2

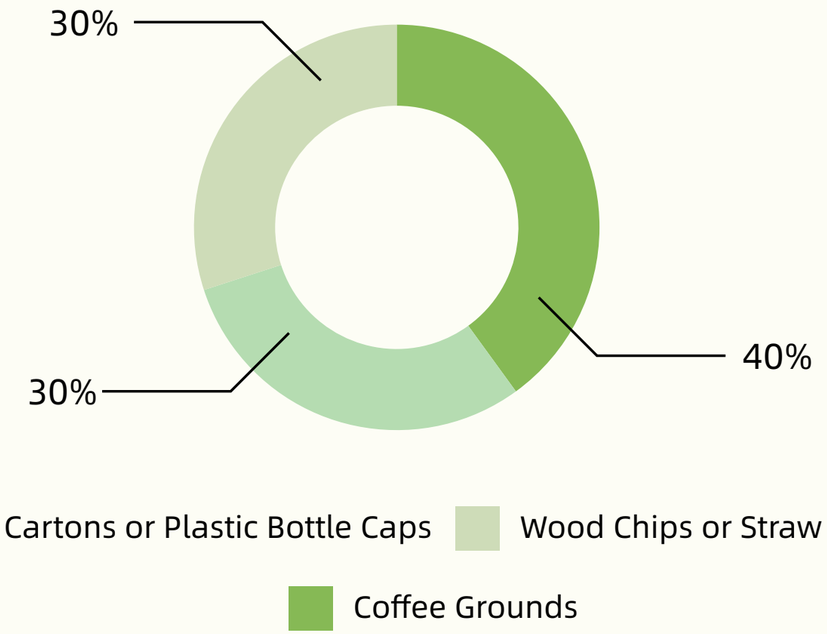
Benzene <5 $\mu g/m^3$ (ND)

Toluene/Xylene <10 $\mu g/m^3$ (ND)

Formaldehyde <10 mg/kg (ND)

Standards: GB/T 18696.1, GB/T 29899, GB/T 2912.1

COFFEE GROUNDS BOARD



Material Advantages

Natural Coffee Fiber offers a subtle coffee aroma and unique texture, featuring antibacterial, moisture-resistant, and fire-retardant properties for easy-to-clean sustainable surfaces.

Sensory Experience	Professional Expertise
Gloss Level: Low Sheen / Semi-Matte Acoustics: Effective Sound Insulation	Fire Resistance & Flame Retardancy Sustainability Index:★★★★★

Application Scenarios

Interior wall decoration, furniture panels, daily necessities, toys, and packaging.

Product Information

Material Dimensions: 3000 × 2100 × 15 mm3000 × 1500 × 15 mm

Lead Time: 30 days

Installation Methods

Adhesive bonding with pneumatic nail gun

Back-mounted auxiliary board with nail gun

45° interlocking groove system (panel and wall backing)

Dedicated metal/plastic hanging components

Post-Use Disposal Methods

We offer recycling services and transform materials into new products, enabling sustainable utilization throughout the entire lifecycle of material products.

Daily Use and Maintenance

Avoid outdoor exposure and sharp objects

Store flat; clean with dry/damp cloth

Remove oil stains with alcohol

Keep unused panels in dry, cool shade

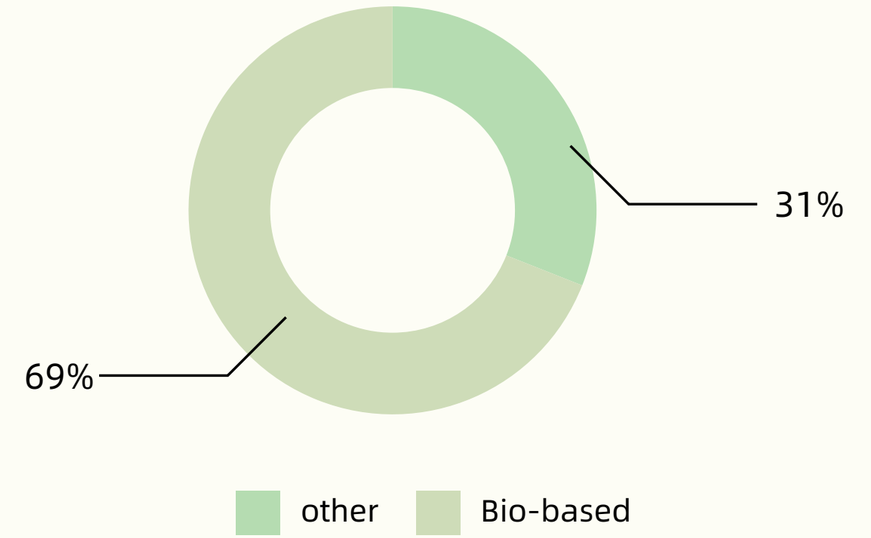
Elevate from ground; away from heat/flames/chemicals

Key Material Performance Parameters

Density: 0.9-1.3 g/cm³	Bending strength: ≥50 MPa
Tensile strength: 30-50 MPa	Formaldehyde emission: ≤0.5 mg/L
Benzene emissions: ≤0.5 mg/L	Combustion rating: B1
Water absorption thickness swelling: ≤18%	
Surface bond strength: ≥1.0 MPa	
Formaldehyde emission (1m³): ≤0.124 mg/mm³	
Bending failure load: ≥2200 N	Density: ≥0.85 g/m³
Slip resistance: ≥35	Lightfastness: ≥4 grade


減糖値
28g

BIOBASED COATINGS



Material Advantages

Low-carbon materials, eco-friendly and formaldehyde-free, enable immediate occupancy while conserving resources.

Sensory Experience	Professional Expertise
Gloss Level: Low Sheen / Semi-Matte Colors: 50 standard options, customizable.	Brushability: Good Scrub Resistance: Excellent Sustainability Index: ★★★★★

Application Scenarios

Applications: Interior wall decoration, ceilings, and more.

Product Information

Volume: 18L

Colors: Standard color chart available

Shelf Life: 36 months (0-40°C)

Composition: 31% bio-based content

Source: Bio-based components derived from natural plants

Transport: Primarily by truck, packaged in metal cans or plastic drums

Installation Methods

Application Methods: Roller, brush, or spray.

Daily Use and Maintenance

Clean periodically with mild detergent and soft cloth

Avoid scratching with sharp or hard objects

Keep surface dry; prevent prolonged moisture exposure

Storage Note:

Seal unused paint and store flat in a dry, cool, shaded area. Keep away from heat sources, open flames, and children's reach.

Key Material Performance Parameters

Contrast Ratio: 0.99 (Standard requires ≥0.95)

VOC Content: 2 g/L (Standard limit: ≤80 g/L)

Total Aromatics Content: <5 mg/kg (Standard limit: ≤100 mg/kg)

Total Lead Content: 2.85 mg/kg (Standard limit: ≤90 mg/kg)

Compliance Standards:

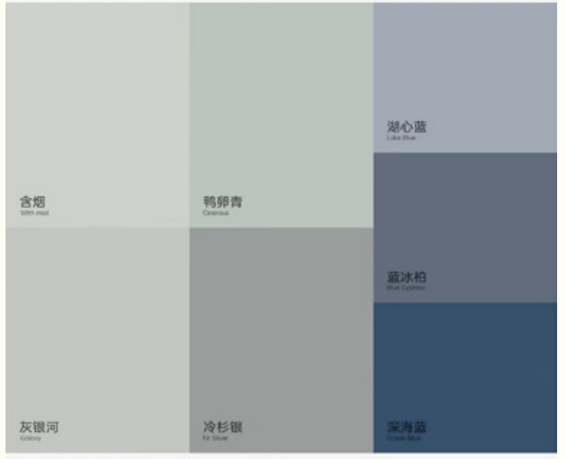
GB/T 9756-2018 "Synthetic resin emulsion interior wall coatings"

GB/T 18582-2020 "Limit of harmful substances of building coatings"

脏粉色系

灰褐色系

蓝灰色系

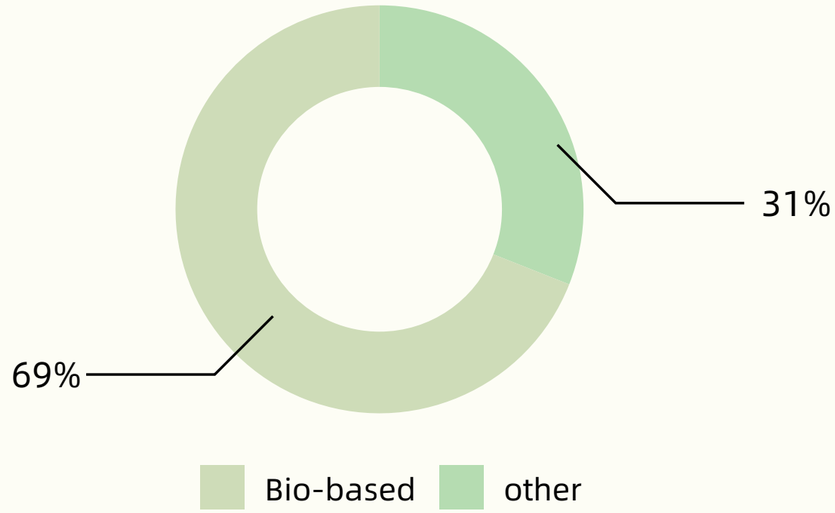


春绿色系

暖黄色系

奶咖色系

BIO-BASED MICROCEMENT



Material Advantages

Bio-based microcement reduces carbon emissions during production, supporting green and sustainable development. It offers high wear resistance, fast drying, slip resistance, easy maintenance, and wide applicability.

Sensory Experience	Professional Expertise
Gloss Level: Low Sheen / Semi-Matte	Brushability: Excellent
Odor: Mild	Scrub Resistance: Excellent
Texture: Smooth, fine	Sustainability Index:★★★★★

Application Scenarios

Bio-based microcement is suitable for a wide range of applications, including interior walls and floors, outdoor flooring, bathrooms, kitchens, new home construction, renovation of old buildings, public structures, and self-leveling floor crack repair.

Product Information

Shelf Life: 36 months (0-40°C)

Raw Material Source: Bio-based fermentation

Composition: Powder, liquid, primer, and topcoat auxiliary materials

Primer: Derived from corn cobs, cassava, straw, and bagasse

Liquid Component: Sourced from sugarcane molasses and castor oil

Topcoat: Produced by fermentation polymerization of corn waste

Packaging: Drum

Transport: Road freight

Daily Use and Maintenance

Maintenance & Storage:

Clean with mild detergent and a soft cloth, avoid scratches, and keep dry. Store sealed in a cool, dry place away from heat, flames, and children.

Key Material Performance Parameters

Contrast ratio: 0.99 (Standard: ≥0.95)

VOC content: 2 g/L (Standard: ≤80 g/L)

Total aromatics: <5 mg/kg (Standard: ≤100 mg/kg)

Lead content: 2.85 mg/kg (Standard: ≤90 mg/kg)

Compliance: GB/T 9756-2018, GB/T 18582-2020

Core Technologies

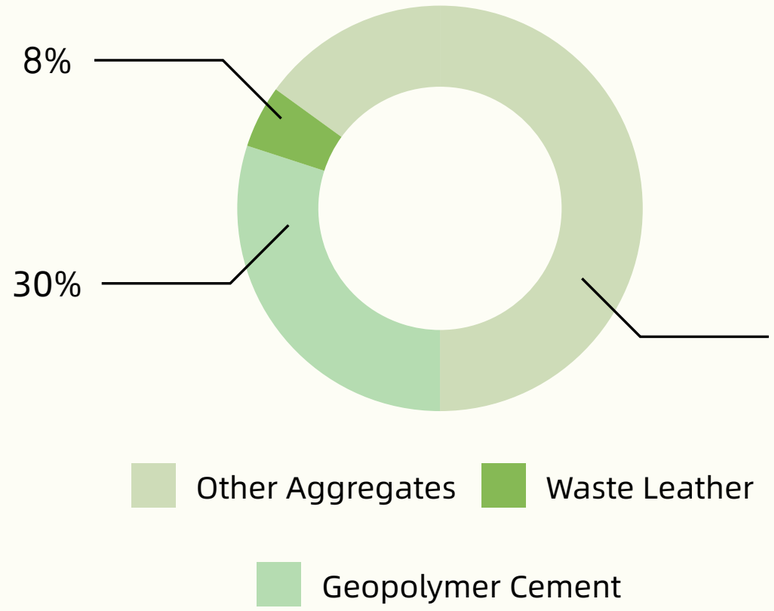
The primer utilizes bio-based emulsion derived from the fermentation, purification, and polymerization of raw materials such as corn cobs, cassava, straw, and bagasse. The topcoat protective layer is made from fermented and polymerized corn waste, forming a bio-based hydroxy dispersion that provides excellent protection while being formaldehyde-free.

OREAL

avel Retail

Asia Pacific

LEATHER RECYCLED CONCRETE



Material Advantages

A: Resource Regeneration – Converts waste into valuable materials.
B: Rich Patterns & Textures – Offers diverse visual and tactile surfaces.
C: Low-Carbon & Eco-Friendly – Reduces environmental impact.
D: High Adaptability – Suitable for various applications.
E: Easy Installation & Cost-Effective – Saves time and ensures durability.

Sensory Experience	Professional Expertise
Gloss Level: Low Sheen / Semi-Matte Acoustics: Effective Sound Insulation	Processability: Excellent Strength: Excellent Sustainability Index: ★★★★★

Application Scenarios

Interior Walls & Floors

Product Information

Composition: Geopolymer cement, waste leather, curing agents, etc.

Dimensions: Customizable

Material Source: Inorganic low-carbon materials + recycled aggregates

Transportation: Road freight

Packaging: Wooden frame + pallet

Installation: Specialty adhesive or dry-hanging system

Post-Use Disposal Methods

We offer recycling services and transform materials into new products, enabling sustainable utilization throughout the entire lifecycle of material products.

Daily Use and Maintenance

Avoid strong impacts, cutting directly on the surface, or scratches from hard objects.

Keep the surface dry. Prolonged water exposure may cause color fading. If this occurs, spray with neutral cleaner and wipe repeatedly until restored.

Prevent contact with harsh chemicals. If accidental exposure occurs, rinse immediately with plenty of soapy water.

Clean with acetone-free agents (e.g., mineral spirits, alcohol), then rinse with water.

Key Material Performance Parameters

Bulk density ≥2.6 g/cm³ Compressive strength ≥52 MPa

Flexural strength ≥7.0 MPa Abrasion resistance ≥10

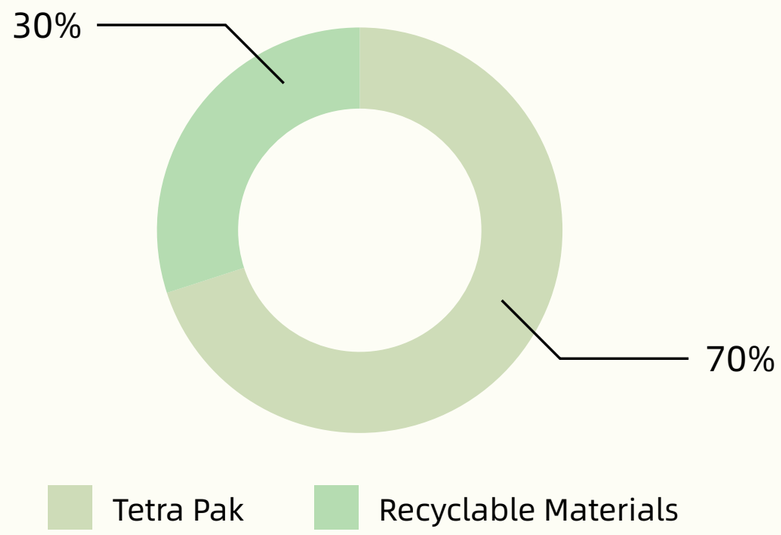
Radionuclide limits (Ra-226, Th-232, K-40):

Internal exposure index (IRa) ≤1.0 External exposure index (Iγ) ≤1.3

Compliance Standards:

GB/T 19766-2016 (Natural Stone) GB 6566-2001 (Radiation Limits)

MILK BOX BOARD



Material Advantages

Decorative Panels Made from Recycled Milk Cartons (Tetra Pak)
These boards are produced by crushing recycled milk packaging and processing them under heat and pressure, creating durable and eco-friendly decorative sheets.

Sensory Experience

Gloss Level: Low Sheen / Semi-Matte

Acoustics: Effective Sound Insulation

Professional Expertise

Fire Resistance: Good

Sustainability Index: ★★★★★

Application Scenarios

Interior Decoration & Furniture Panels

Product Information

Dimensions: 1200 × 600 mm (edge trimming may have minor variances)

Lead Time: 30 days

Material: Recycled milk cartons

Installation Methods

Adhesive + Nail Gun: Secure panels using construction adhesive combined with pneumatic nail gun fixation.

Back-Mounted Auxiliary Board: Install with nail gun through pre-mounted support panels.

45° Interlocking System:

Panel back: 45° angled groove (knife-edge slot)

Wall side: 45° angled wooden battens

Dedicated Hangers: Metal or plastic custom hanging components.

Daily Use and Maintenance

Avoid outdoor exposure to sunlight/rain and contact with sharp objects

Store flat on a level surface

Clean with dry/damp cloth; remove oil stains with alcohol

Unused materials must be stored flat in a dry, cool, shaded area

Keep away from heat sources, open flames, and chemicals

Ensure bottom layers are elevated from direct ground contact

Key Material Performance Parameters

Density: 0.9-1.3 g/cm³ Flexural strength: ≥50 MPa Tensile strength: 30-50 MPa

Formaldehyde emission: ≤0.5 mg/L Aromatic emissions: ≤0.5 mg/L

Combustion rating: B1 Thickness swelling (water absorption): ≤18%

Surface bond strength: ≥1.0 MPa

Formaldehyde emission (per 1m³): ≤0.124 mg/m³

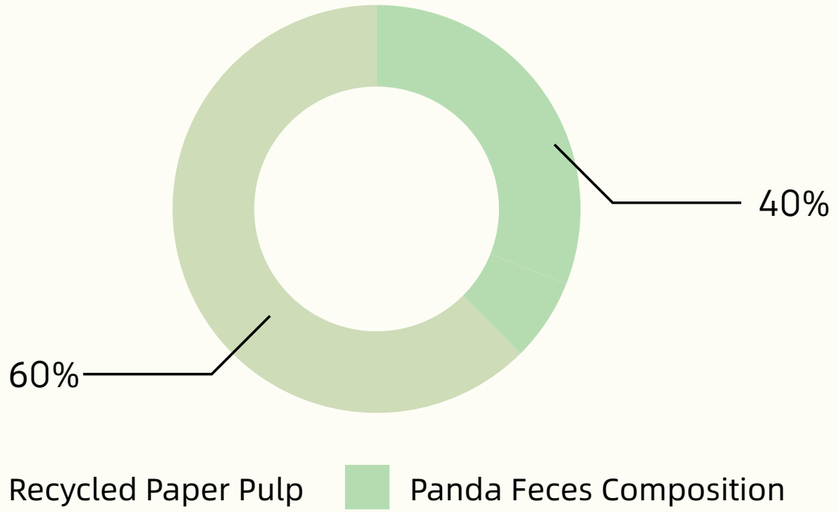
Flexural failure load: ≥2200 N Slip resistance: ≥35 Lightfastness: ≥4 grade

Post-Use Disposal Methods

We offer recycling services and transform materials into new products, enabling sustainable utilization throughout the entire lifecycle of material products.


NATURAL SPRING WATER

PANDA POOP SEED PAPER



Material Advantages

The plant fibers found in the feces of China's national treasure, the giant panda, can be repurposed alongside waste paper recycling, contributing to resource conservation and environmental protection. This initiative reflects the uniqueness of Chinese culture and demonstrates the Chinese people's commitment to ecological preservation and animal protection.

Sensory Experience	Professional Expertise
Tactile: Soft, fine Olfactory: Subtle bamboo scent	Processability: Good Sustainability Index:★★★★★

Application Scenarios

Cultural and creative products, etc.

Product Information

Dimensions: Customizable

Lead Time: 30 days

Composition: Recycled paper pulp, panda feces

Post-Use Disposal Methods

We offer recycling services and transform materials into new products, enabling sustainable utilization throughout the entire lifecycle of material products.

Daily Use and Maintenance

Control ambient temperature

Avoid direct sunlight

Prevent dust and oil stains

Use protective padding underneath

Key Material Performance Parameters

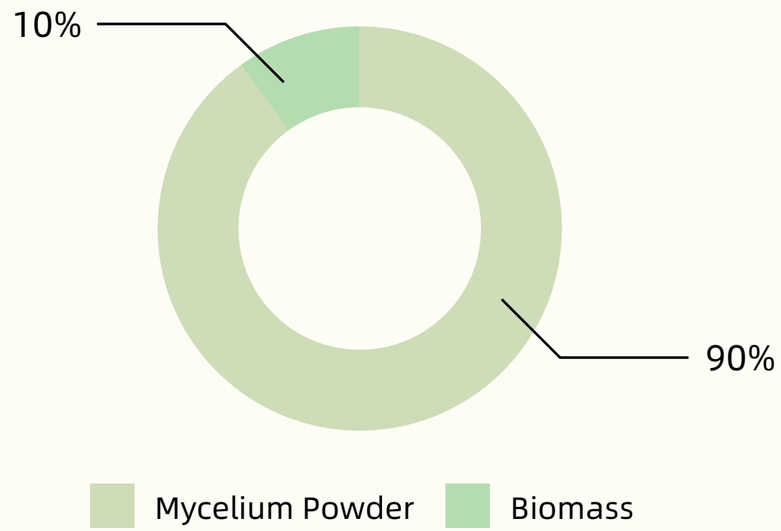
Burst Index ≥3.00 kPa·m^2/g

Ring Crush Index ≥300 g/m^2 (or ≥29.4 N·m/g)

Water Absorption ≤35.0 g/m^2 (Cobb 30s) / ≤50.0 g/m^2 (Cobb 60s)

Short-Span Compressive Index (Horizontal) ≥250 g/m^2 (or ≥24.5 N·m/g)

MYCELIUM SOUND ABSORPTION MODULE LAMPS



Material Advantages

Biodegradable, 100% bio-based material, safe and eco-friendly.

Sensory Experience	Professional Expertise
Texture: Fine Odor: Mushroom-like scen	Biodegradability: 30 days in outdoor soil Processability: Excellent Sustainability Index:★★★★★

Application Scenarios

For environments requiring sound absorption and insulation

Product Information

Composition: Straw, mushroom mycelium, etc.

Dimensions: Side length: 125mm, Max. diameter: 25.5mm

Material Source: Bio-based & waste utilization

Transportation: Road freight

Packaging: Cushioned packaging

Post-Use Disposal Methods

We offer recycling services and transform materials into new products, enabling sustainable utilization throughout the entire lifecycle of material products.

Installation Methods

Adhesive Bonding

Daily Use and Maintenance

Avoid direct sunlight, damp environments, and sharp objects to prevent scratches. Store flat and clean regularly with a dry/damp cloth. Dust periodically using a soft cloth.

Note: Keep unused materials flat in a dry, cool, and shaded place, away from heat sources, open flames, and chemicals. Ensure the bottom is elevated from direct ground contact.

Key Material Performance Parameters

FIGRA (Fire Growth Rate): ≤30 W/s Total Smoke Production (600s): ≤50 m^2

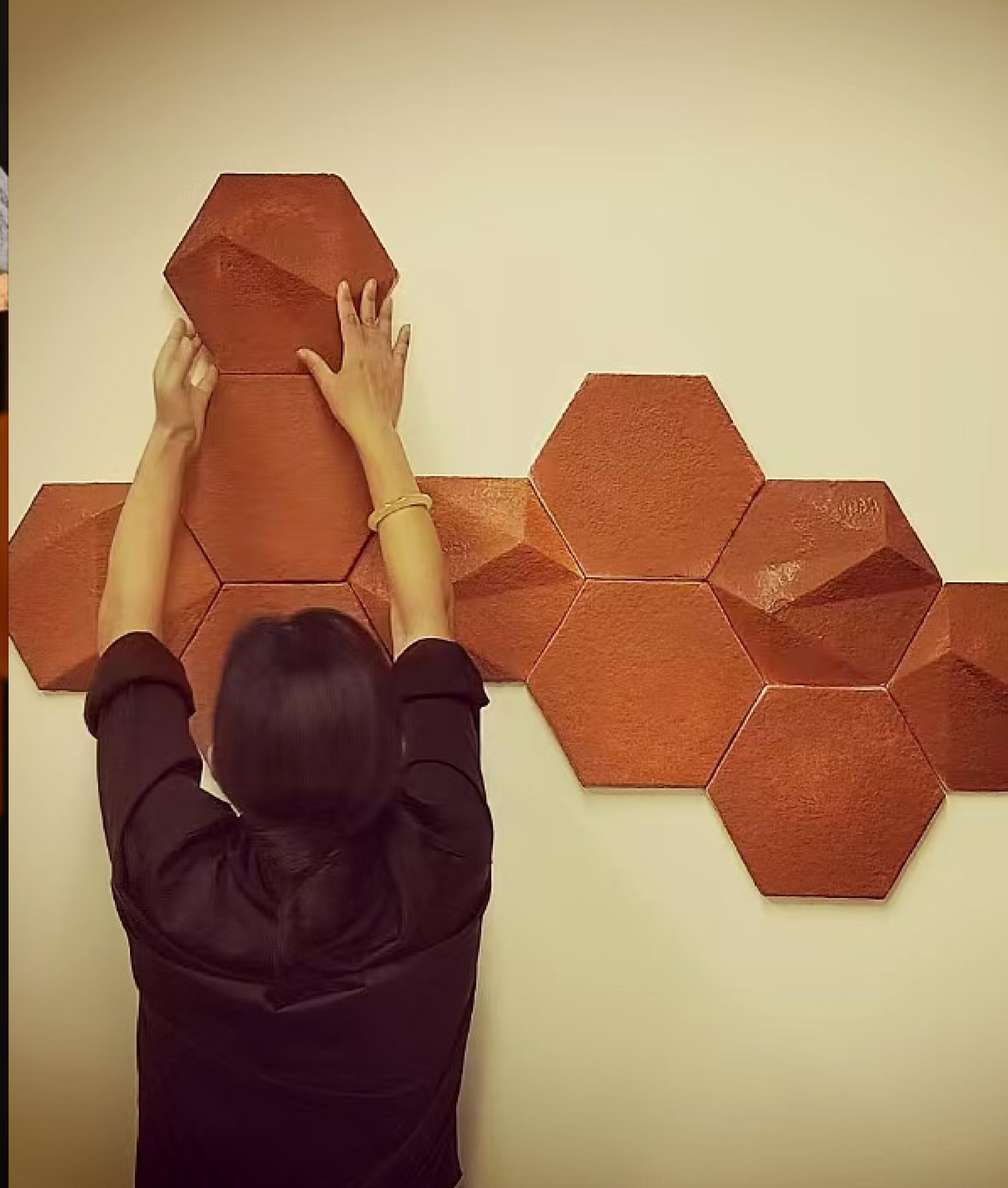
Biodegradability (CO_2 Accumulation): ≤45 days

Noise Reduction Coefficient (NRC): 0.80

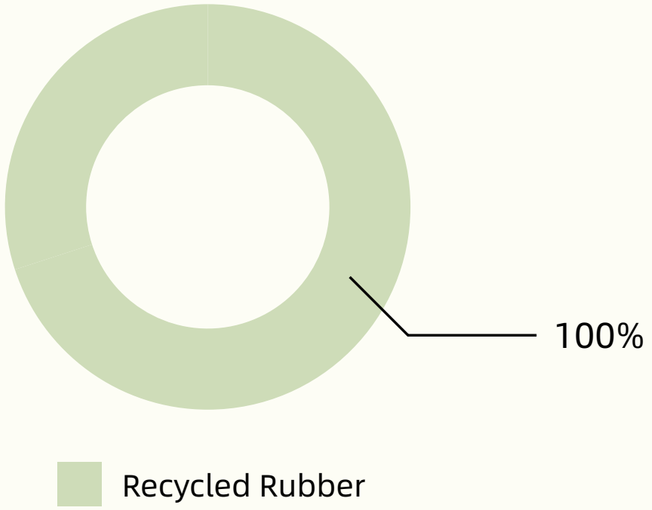
Reference Standards:

GB/T 19277.1-2011 (Biodegradation) GB/T 18696.1-2004 (Acoustic Testing)

GB/T 10295-2008 (Thermal Performance) GB 8624-2012 (Fire Safety Classification)



SOLE RECYCLED RUBBER



Material Advantages

Reusing rubber soles alleviates the environmental impact of rubber products while conserving petroleum resources.

Sensory Experience	Professional Expertise
Gloss Level: Low Sheen / Semi-Matte Acoustics: Effective Sound Insulation	Processability: Excellent Lightweight & Easy to Process Sustainability Index: ★★★★★

Application Scenarios

Gyms, stadiums, sports venues, etc.

Product Information

Dimensions: 1000×1000mm, 500×500mm, 500×1000mm

Thickness: 1–5mm (roll material)

Lead Time: 30 days

Material Source: Recycled materials

Post-Use Disposal Methods

We offer recycling services and transform materials into new products, enabling sustainable utilization throughout the entire lifecycle of material products.

Daily Use and Maintenance

Avoid contact with high-temperature objects

Do not forcefully bend the material or scratch the surface with sharp objects

Prevent exposure to harsh chemicals

Key Material Performance Parameters

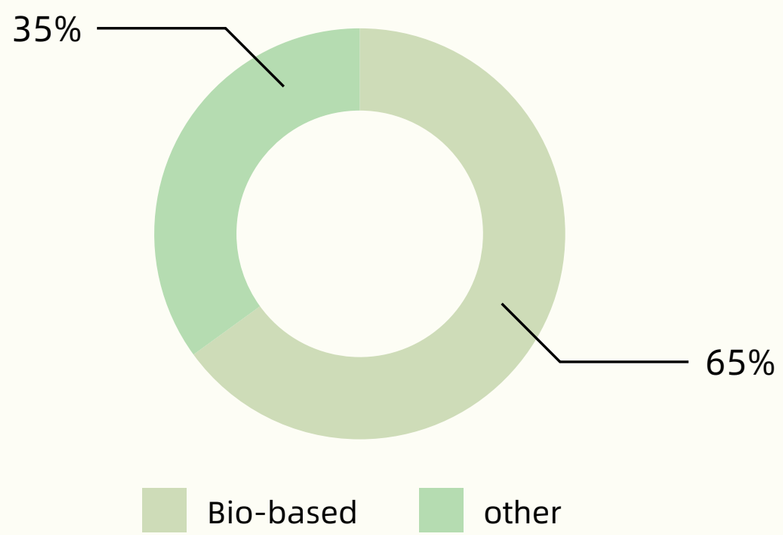
Burst Index: ≥3.00 kPa·m²/g

Ring Crush Index: ≥300 g/m² (≥29.4 N·m/g)

Water Absorption: ≤35.0 g/m² (30s) / ≤50.0 g/m² (60s)

Short-Span Compression Index (Horizontal): ≥250 g/m² (≥24.5 N·m/g)

BIO-BASED LEATHER



Material Advantages

Sustainable materials, low-carbon materials, recycling and reuse, reducing reliance on petroleum-based materials.

Sensory Experience	Professional Expertise
Gloss Level: Low Sheen / Semi-Matte Tactile: Soft	Antibacterial property: Good Sustainability Index:★★★★★

Application Scenarios

Luggage, apparel, furniture, automotive seats, interior decoration, home furnishings.

Daily Use and Maintenance

Avoid scratches from sharp objects

Store flat

Clean with dry/damp cloth; use alcohol for oil stains

Product Information

Width: 1400mm

Lead Time: 30 days

Key Material Performance Parameters

Heavy Metals & Elements (Cobalt, Arsenic, Lead, Chromium VI, etc.): ≤0.1% each

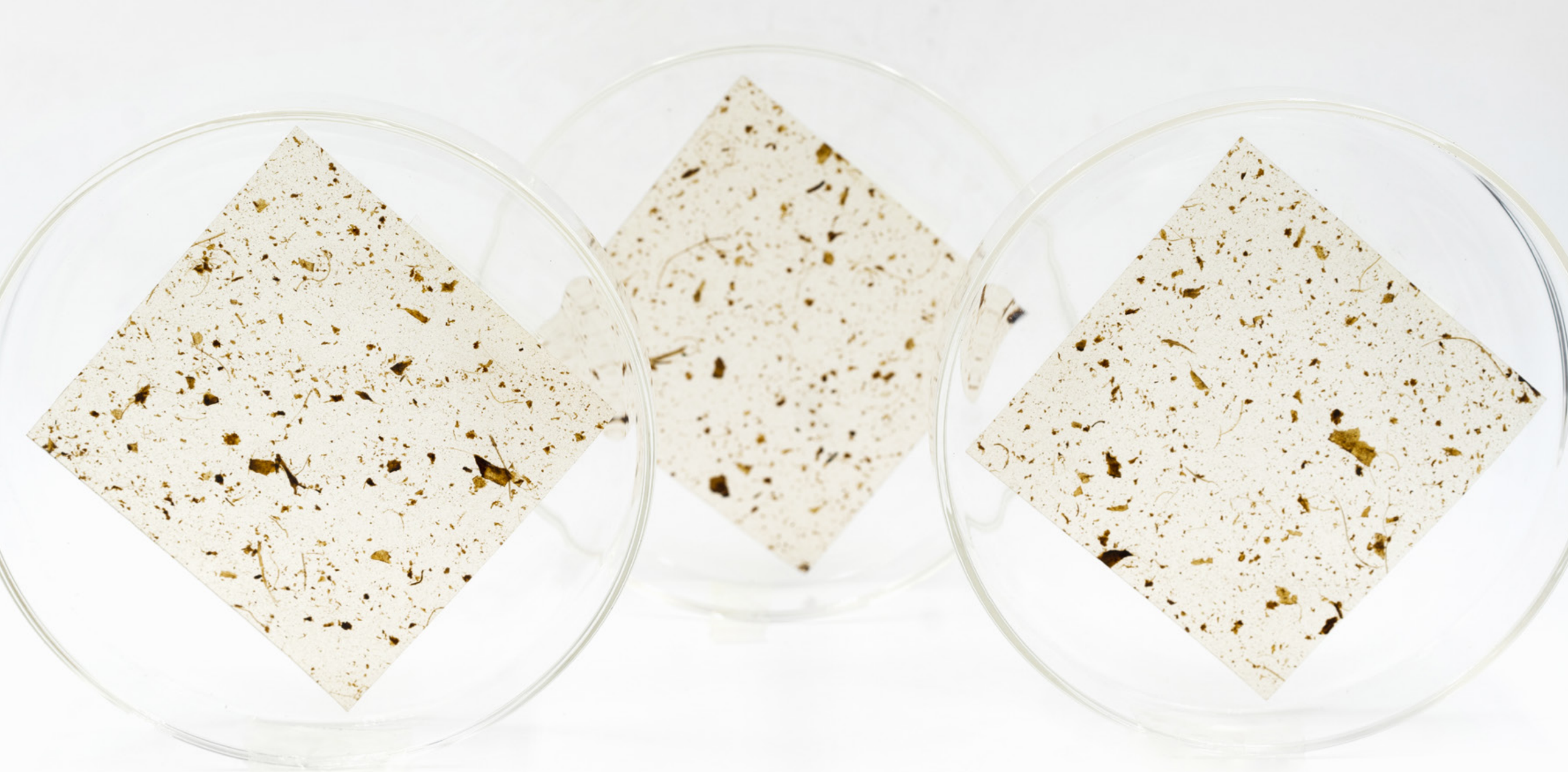
VOCs (Benzene, Toluene, Ethylbenzene, Xylene, Styrene): Not Detected

Color Fastness (All Fabric Colors): ≥4 Grade

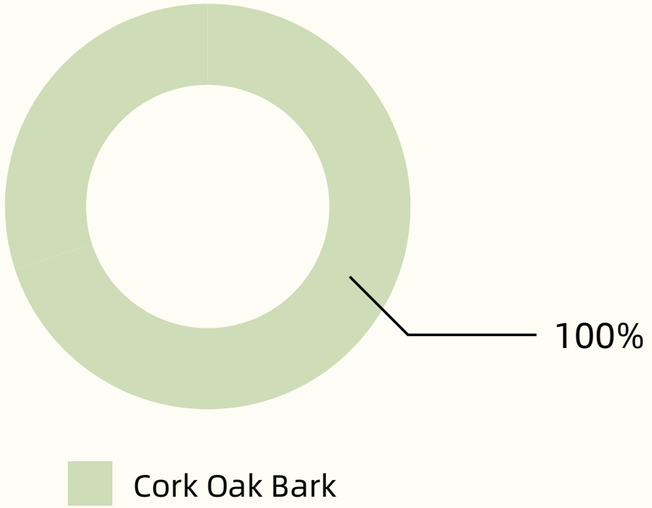
Leather Coating Adhesion: ≥2.5 N/10mm

Post-Use Disposal Methods

We offer recycling services and transform materials into new products, enabling sustainable utilization throughout the entire lifecycle of material products.



CARBONIZED CORK



Material Advantages

Natural bark material, free from chemical adhesives. Lightweight with excellent thermal insulation and sound absorption. Cork undergoes high-temperature steaming for enhanced durability. As cork grows, it absorbs significant amounts of CO_2, and new bark regenerates over time, making it a carbon-negative sustainable material.

Sensory Experience	Professional Expertise
Gloss Level: Low Sheen / Semi-Matte Scent: Natural cork aroma	Processability: Excellent Lightweight, thermal insulation, sound-absorbing Sustainability Index:★★★★★

Application Scenarios

Applications: Lightweight interior partition walls, feature walls, etc.

Product Information

Composition: Natural bark

Dimensions: 1000×500mm / 950×640mm (customizable)

Source: Bio-based

Transport: Road freight

Packaging: Carton + bubble wrap protection

Post-Use Disposal Methods

We offer recycling services and transform materials into new products, enabling sustainable utilization throughout the entire lifecycle of material products.

Key Material Performance Parameters

Thermal Conductivity: 0.040 W/(m·K) (GB/T 10259-2008)

Formaldehyde Removal Efficiency: 85% (JC/T 1074-2008)

Moisture Content: 1.8% (GB/T 17657-2013)

Compressive Strength:

110.1 kPa (at 5% deformation)

194.1 kPa (at 10% deformation) (GB/T 8813-2008)

Noise Reduction Coefficient (NRC): 0.35 (GB/T 20247-2006)

Airborne Sound Insulation: 20 dB

Installation Methods

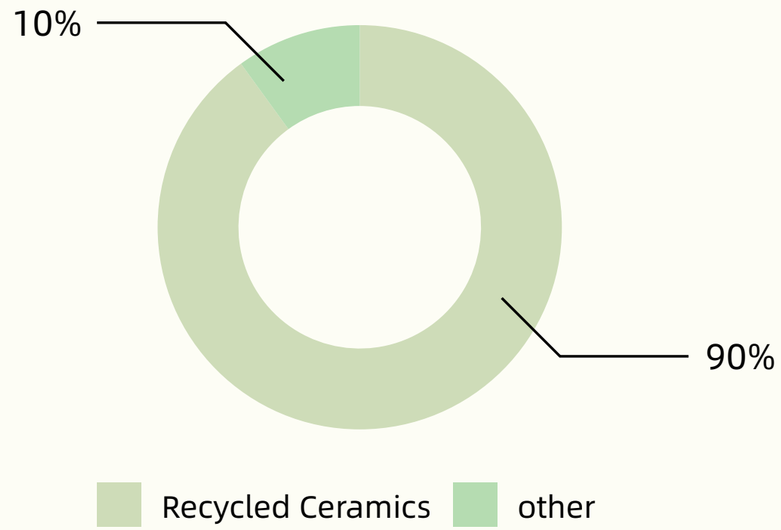
Installation Method:

Use construction adhesive combined with pneumatic nail gun fixation.

Installation Notes:

Ensure the wall surface is clean, level, and free of oil or dust. Uneven walls may compromise adhesion and aesthetic integrity.

RECYCLED TILES



Material Advantages

Decorative mini-bricks made from recycled ceramics and ceramic scraps. They match the appearance and texture of conventional tiles while delivering aesthetic appeal and distinctive tactile quality.

Sensory Experience	Professional Expertise
Gloss Level: Low Sheen / Semi-Matte Tactile: Smooth	Fire Resistance & Flame Retardancy Sustainability Index:★★★

Application Scenarios

Interior walls, floors

Product Information

Dimensions: 155 × 50 × 8 mm (Customizable)

Lead Time: 30 days

Post-Use Disposal Methods

We offer recycling services and transform materials into new products, enabling sustainable utilization throughout the entire lifecycle of material products.

Daily Use and Maintenance

Daily Care

Dust with microfiber cloth; clean oil with baking soda solution, stains with alcohol.

Remove limescale with diluted vinegar (glazed tiles only).

Protection & Repair

Apply water-based sealant every 6 months.

Fix scratches with repair paste, chips with epoxy.

Avoid

Strong acids, abrasive tools, and sudden temperature changes.

Key Material Performance Parameters

Bulk density ≥2.6 g/cm³

Compressive strength ≥52 MPa

Flexural strength ≥7.0 MPa

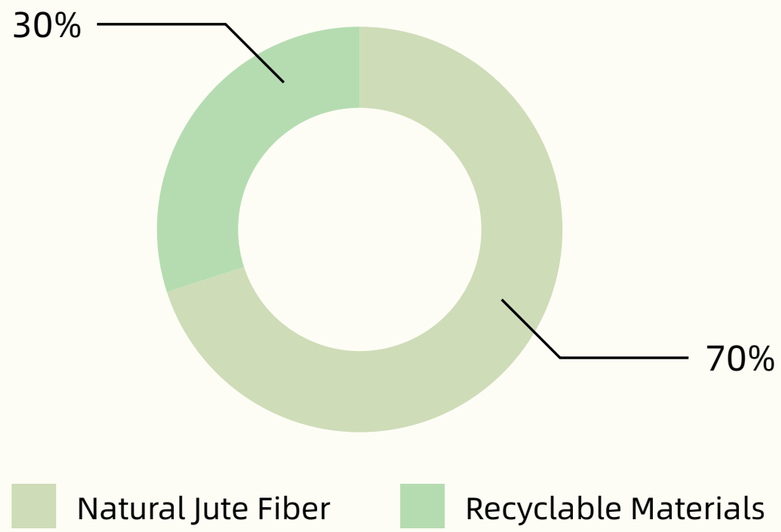
Abrasion resistance ≥10

Radionuclide limits (Ra-226, Th-232, K-40):

Internal exposure index (IRa) ≤1.0

External exposure index (Iγ) ≤1.3

NATURAL JUTE BOARD



Material Advantages

Natural jute fiber features a plant-based texture, offering anti-bacterial, mite-resistant, mold-proof, and moisture-resistant properties. It is formaldehyde-free, absorbs odors, and provides thermal insulation. As a fast-growing plant, jute serves as an eco-friendly alternative to wood, helping to conserve forest resources.

Sensory Experience	Professional Expertise
Gloss Level: Low Sheen / Semi-Matte Acoustics: Effective Sound Insulation Tactile: Smooth	Fire Resistance & Flame Retardancy Sustainability Index:★★★★★

Application Scenarios

Interior walls, ceilings, furniture panels, etc.

Product Information

Material Dimensions: 2440 × 1220 × 9 mm

Post-Use Disposal Methods

We offer recycling services and transform materials into new products, enabling sustainable utilization throughout the entire lifecycle of material products.

Daily Use and Maintenance

Avoid outdoor exposure to sun/rain

Store flat

Clean oil stains with cloth + alcohol

Note: Unused panels should be stored flat in a dry, cool, shaded area, away from heat sources, open flames, and chemicals, with the bottom elevated from direct ground contact.

Key Material Performance Parameters

FIGRA (Fire Growth Rate): ≤30 W/s

Total Smoke Production (600s): ≤50 m^2

Biodegradability: ≤45 days (CO_2 accumulation)

Noise Reduction Coefficient (NRC): 0.80

Reference Standards:

GB/T 18696.1-2004 (Acoustics)

GB/T 10295-2008 (Thermal Performance)

GB 8624-2012 (Fire Safety Classification)

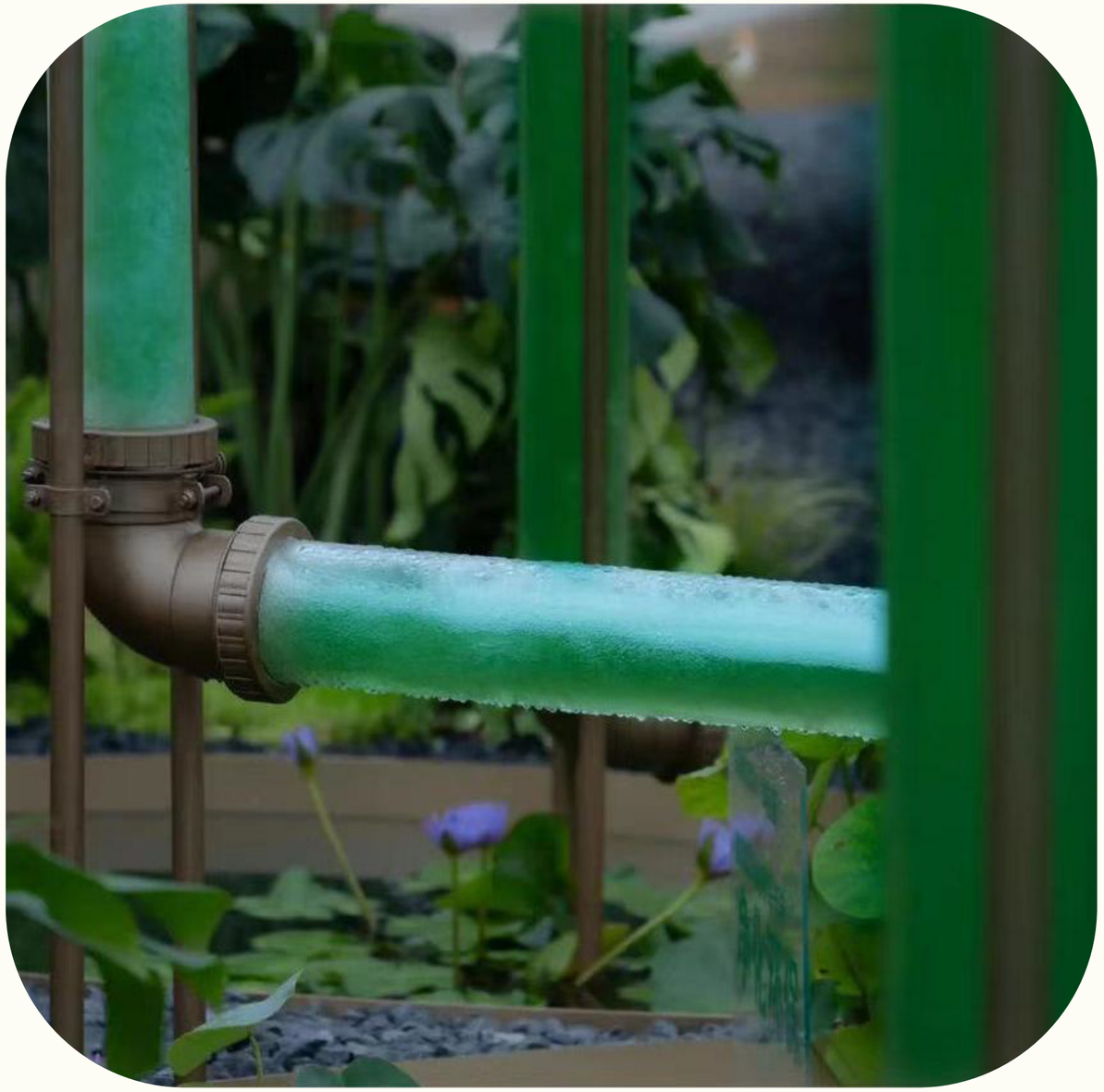
RICHARD BACHMAN

ARCHITECTURE

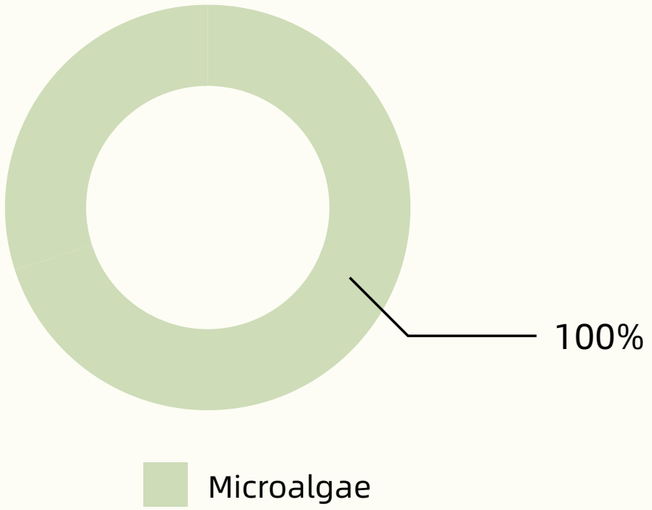
Constructing Paradies

FURNITURE DESIGN

FURNITURE



MICROALGAE DEVICE



Material Advantages

In the context of carbon neutrality and peak carbon goals, the diameter of pipelines and water flow rates require rigorous calculation and adjustment. The rotatable eye system excels in drainage, achieving efficient CO_2 absorption at low cost. Combined with a large-scale propagation system, it generates significant economic benefits and social value.

Sensory Experience	Professional Expertise
Gloss/Transparency: Transparent Visual Effect: Excellent	Sustainability Index:★★★★★

Application Scenarios

Indoor and outdoor installations

Product Information

Material Dimensions: Customizable according to client requirements.

Post-Use Disposal Methods

We offer recycling services and transform materials into new products, enabling sustainable utilization throughout the entire lifecycle of material products.

Key Material Performance Parameters

Biomass Density: Up to 10 g/L

Areal Productivity (Closed PBR): 17–20 g/m²/day

Lipid Content: 25%–35%

Daily Use and Maintenance

Light Management

Ensure uniform and sufficient light in photobioreactors (PBRs) for photosynthesis.

Clean reactors regularly to prevent light blockage.

Adjust light intensity and spectrum based on microalgae species.

Temperature Control

Maintain optimal temperature with heating/cooling systems.

Monitor and regulate temperature daily for stable growth.

pH Regulation

Monitor pH regularly and adjust to the species-specific optimal range.

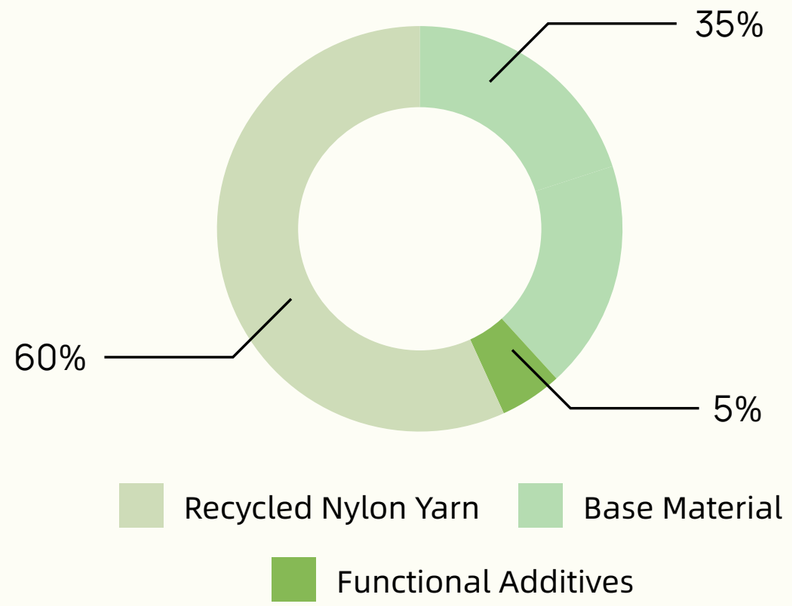
Nutrient Supply

Supplement essential nutrients (e.g., nitrogen, phosphorus) periodically.

Water Quality Monitoring

Track dissolved oxygen, ammonia, and other key parameters.

RECYCLED NYLON CARPET



Material Advantages

The carpet can be recycled and reused after its service life. This closed-loop system—from production and use to recycling—ensures low-carbon sustainability throughout the material's entire lifecycle. Colors and textures are customizable (minimum order: 300m²).

Sensory Experience	Professional Expertise
Gloss Level: Low Sheen / Semi-Matte Tactile: Soft Acoustics: Effective sound insulation	Fire Resistance & Flame Retardancy Sustainability Index:★★★★★

Application Scenarios

Interior Flooring Material

Product Information

Material Dimensions: 500 × 500 mm (Customizable to client requirements)

Post-Use Disposal Methods

We offer recycling services and transform materials into new products, enabling sustainable utilization throughout the entire lifecycle of material products.

Daily Use and Maintenance

Regular cleaning removes dust trapped in fibers, effectively extending carpet life.

Low-traffic areas: Clean at least 1–2 times yearly (every 6–12 months).

High-traffic areas: Clean at least 3–4 times yearly (every 3–4 months).

Note: Maintenance plans should adapt to the specific use of the carpeted area. Cleaning methods and schedules should be determined by the facility's administrative/resource manager and professional cleaning staff familiar with the building's needs.

Key Material Performance Parameters

Thermal/Hygroscopic Dimensional Change:

Width: 0.07% Length: 0.05%

Warping (Heat/Moisture-Induced): 0.6 mm

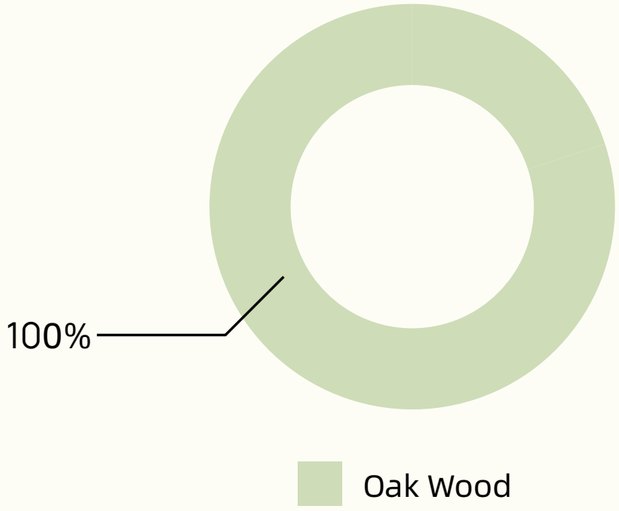
Combustion Rating: B1 (C-S1)

Critical Radiant Flux: 52 kW/m²

Compliance Standards:

GB 18587-2001, GB 8624-2012, QB/T 2755-2005

CORK TRAIL



Material Advantages

Outstanding elasticity (comprising 40 million tiny pentagonal or hexagonal honeycomb cells per cubic centimeter, over 50% filled with air) and compressive resistance, UV-resistant, low maintenance, durable, excellent plasticity, and customizable for creative designs. By combining cork's exceptional properties with advanced polymer engineering, unparalleled high-performance sports products can be created.

Sensory Experience	Professional Expertise
Scent: Mild Tactile: Smooth, fine	Processability: Excellent Lightweight & Easy to Process Sustainability Index:★★★★★

Application Scenarios

Outdoor flooring, playgrounds, fitness venues, etc.

Product Information

•Color Options: Natural cork, black, gray, etc. Custom colors available based on design requirements.

Key Material Performance Parameters

Density: ≤1.35 mg/m³	Tensile Strength: 3.8–12 MPa
Elongation at Break: 220–460%	Ash Content: 10–38%
Acetone Extract: 16–26%	Heavy Metals: Not Detected
VOC Content:	
Standard Limit: ≤50 mg/kg	Tested Value: ≈15.4 mg/kg
Shock Absorption: >50%	Tensile Strength: >0.4 MPa
Elongation at Break: >40%	

Environmental Conditions

Cleanliness

Ensure the base floor is free of dust, debris, and construction waste to provide optimal adhesion for cork-rubber flooring.

Flatness

Check with a 2-meter straightedge; the maximum gap should not exceed specified tolerances (e.g., 3–4 mm) to guarantee aesthetics and stability after installation.

Dryness

Maintain moisture levels below the specified threshold (e.g., ≤20%). Avoid damp or leaking areas to prevent installation failures.

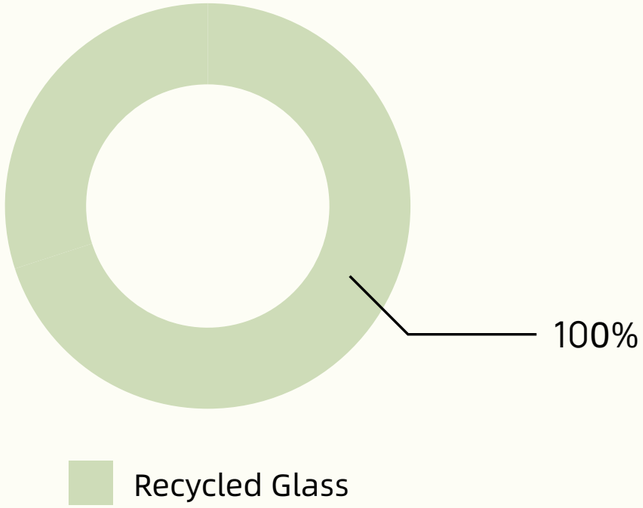
Strength & Thickness

The substrate must be solid and stable, with strength and thickness complying with building acceptance standards to ensure lasting support.

Post-Use Disposal Methods

We offer recycling services and transform materials into new products, enabling sustainable utilization throughout the entire lifecycle of material products.

RECYCLED GLASS



Material Advantages

A: Resource Regeneration – Converts waste into valuable materials.

B: Rich Patterns & Textures – Offers diverse visual and tactile surfaces.

C: Low-Carbon & Eco-Friendly – Reduces environmental impact.

D: High Adaptability – Suitable for various applications.

E: Easy Installation & Cost-Effectiveness – Saves time and ensures durability.

Sensory Experience	Professional Expertise
Tactile: Smooth, fine Odor: Mild	Processability: Excellent Strength: Excellent Sustainability Index: ★★★

Application Scenarios

Interior Decoration, Countertops, Glass Products, etc.

Product Information

Composition: Recycled glass (e.g., wine bottles, beverage containers)

Dimensions: 1400 × 3000 mm, 1400 × 2500 mm (Jade Ice variant)

Source: Recycled materials

Transportation: Road freight

Production Process

Crushed cleaned glass fragments are heated to a specific temperature (800°C, 20–30 minutes) to achieve partial melting and mutual bonding without full liquefaction. This contrasts with conventional glass manufacturing, which requires 1400–1600°C for several hours. The partially melted glass is then cooled and solidified, forming a cohesive structure that retains unique textures and surface effects.

Key Material Performance Parameters

Density ≥2.6 g/cm^3 | Strength ≥52 MPa (compressive) / ≥7.0 MPa (flexural)

Abrasion resistance ≥10 | Radiation safety (IRa≤1.0, Iγ≤1.3)

Carbon footprint: 36.4 kg CO_2e (recycled) vs 104 kg CO_2e (new glass) per 92 kg – reducing emissions by 67.6 kg.

Daily Use and Maintenance

Heat Protection – Avoid direct or prolonged contact with high-temperature objects. Always use heat-insulating mats as a barrier.

Impact & Scratch Prevention – Do not strike the surface forcefully or expose it to sharp/hard objects.

Chemical Resistance – Prevent contact with harsh chemicals. If accidental exposure occurs, rinse immediately with plenty of soapy water.

Cleaning Method – Use acetone-free cleaners (e.g., mineral spirits, alcohol), followed by water rinsing.

Post-Use Disposal Methods

We offer recycling services and transform materials into new products, enabling sustainable utilization throughout the entire lifecycle of material products.

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