lumii

Sustainability Declaration

& Miixfelt™ EPD

From its inception, Lumii Design Company Ltd incorporates sustainability principles as part of its DNA. We believe in the power of design to create a better world. Our commitment to sustainability drives us to innovate and operate in ways that benefit the environment, society, and the economy. This statement outlines our approach to sustainability and the steps we take to ensure a positive impact.

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Environmental Responsibility

PHOTO TAKEN AT LUMII HQ. SHREDDED WASTE IS STORED IN PAPER BAGS, WHICH ARE REUSED AGAIN AND AGAIN.

At Lumii Design Company Ltd, sustainability is at the core of everything we do. We believe in the power of design to improve lives, spaces, and the planet, driving us to innovate responsibly and operate with care for the environment, society, and economy.

From materials and manufacturing to packaging and delivery, every decision is made with sustainability in mind. We prioritise low-impact, low-waste materials, partner with ethical suppliers, and work continuously to reduce our footprint through transparency, innovation, and collaboration.

Environmental Standards

We are committed to minimising harmful substances, protecting biodiversity, and using resources responsibly. Our goals include reducing overall energy use, improving efficiency, and exploring renewable energy solutions. We work with suppliers who meet certified environmental standards and provide clear, educational resources about the environmental performance of our products, including Miixfelt™. Our ongoing R&D ensures our products remain at the forefront of sustainable design, meeting the latest environmental benchmarks.

Zero Waste to Landfill

At Lumii, we proudly operate to a Zero Waste to Landfill standard. All Miixfelt™ off-cuts — including those from our production hall and end-of-use materials — are shredded and reused. They're either used to fill acoustic products like our planters, enhancing performance, or cut into labelled samples for clients. Any remaining waste is diverted from landfill through our partnership with Veolia, with general waste converted into renewable energy. All processes are certified under ISO 14001 Environmental Management Systems.

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Miixfelt™

Our signature acoustic material, Miixfelt™, is manufactured in the UK from 75% post-consumer recycled plastic bottles and designed to support a circular economy. It is robust, low-VOC, fully recyclable, and offers high acoustic performance. Miixfelt™ is suitable for use in wall coverings, ceilings, lighting, furniture, and more.

Miixfelt™ panels are available in a wide range of thicknesses and dimensions (9mm, 12mm, 18mm, 24mm), 52 curated UK-stocked tones and a wider palette of 140 colours. Contact us to learn more.

Verified EPD

We are proud to offer a verified Environmental Product Declaration (EPD) for Miixfelt™, independently assessed to EN 15804+A2 and ISO 14025 standards. This certification provides credible, science-backed lifecycle data and supports LEED, WELL, BREEAM, and other sustainable building schemes.

View Document

Physical & Chemical Properties

Odour:	No odour
pH:	7.8 *(pH7 being neutral)*
Boiling Point:	N/A
Melting Point:	250°C (482°F) Max
Rec. Serv. Temp	80°C (176°F)
Vapour Pressure:	N/A Specific
Gravity:	Polyester 1.38
Flash Point:	N/A
Explosive Limits:	N/A
Solubility in Water:	Not soluble
Moisture Absorption:	Less than 0.4% by weight
Rel. Vapour Density:	N/A
Percent Volatiles:	Non-corrosive
Chemical Entity:	Polyester fibre from PET *(Polyethylene Terephthalate)*

Environmental Performance Summary

Material Composition:	100% PET, with 75% post-consumer recycled content
Fire Classification:	EN 13501-1:2018, B-s1, d0
Sound Absorption:	Class A / Aw 0.90 (100mm air gap), NRC 0.45–1.00 depending on panel thickness
VOC Emissions:	< 0.092 mg/m³ (CDPH v1.2)
Durability:	Impact-resistant, microbial-resistant, suitable for humid environments
Colour Fastness:	Excellent 6-7

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Our Goals

Zero Waste to Landfill
by 2025 ✓ ACHIEVED

Carbon Neutral Operations
by 2025 ✓ ACHIEVED

Offset Full Supply Chain Emissions
by 2027

Declare Red List Free
by 2026

100% Biodegradable Packaging
by 2026

Launch 3 New Circular Product Systems
by 2026

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Miixfelt™ In Detail

Hard body impact

Miixfelt™ remains undamaged with no surface penetration when exposed to hard body impacts. When applied to 10 mm plasterboard, the system can withstand a 9 joule impact, equivalent to the impact of a 0.5 kg object dropped from a height of 2 metres. In some cases, a minor indentation may be noticeable when subjected to an impact equivalent to that of a 0.5 kg object dropped from a height of 0.5 metres.

Soft body impact

Miixfelt™ exhibits no surface damage or penetration when exposed to soft body impacts. When it is affixed to 10 mm plasterboard, the system is capable of withstanding a 70 joule impact, which is comparable to the force generated by a 50 kg object dropped from a height of 150 mm.

Colour fastness

Miixfelt™ light fastness is dependent on use and exposure. It is typically suitable for indoor use only. Can be treated with a 3M textile waterproofer, then it will be suitable for exterior use. ISO 105-B02:2014;Method 2, use Xenon arc lamp, Exposure Cycle:A1, no flip-flop mode was used-Grade (B.W.S) 6-7 (Excellent) Unit A

Microbial Resistance

Growth rating: 0 (No growth) Miixfelt™ does not promote the growth of moulds and mildew. Miixfelt™ incredibly durable and water-resistant, making it perfect for humid climates.

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Fire Hazards

In the event of a fire, the material will move away from the flame and may drip. The combustion products produced include carbon oxides (CO, CO2) and hydrocarbons. For the safety of firefighters and others exposed to these combustion products, it is recommended to wear respiratory protective equipment. Extinguishing media that can be used include water spray or fog, foam, dry chemical, and carbon dioxide. In accordance with EN 13501-1:2018. Classification B-s1, d0.

Chemical Stability

Lumii Design's Miixfelt™ acoustic products generally remain chemically stable in regular use and storage. However, it's recommended to steer clear of strong acids, strong bases, or oxidizing agents to maintain their integrity.

Volatile Organic Compounds (Voc) Emissions

Lumii Design Company Ltd Miixfelt™ acoustics products are categorised as low emitting products. Testing of Miixfelt™ polyester for VOC (Volatile Organic Compound) and formaldehyde emissions, conducted in accordance with CDPH Standard Method v1.2-2017, yielded the following results:

After 14 days in an office room scenario, VOC emissions were measured at 0.092 mg/m³. Formaldehyde emissions were found to be less than 0.002 mg/m³.

These test results indicate that both VOC and formaldehyde emissions from Miixfelt™ meet the threshold limits specified by applicable green building standards and regulations.

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Fire Test Results for Miixfelt™

Miixfelt™ polyester fibre acoustic panels have been tested for reaction to fire performance in accordance with EN 13501-1:2018. The 12 mm Miixfelt™ panel was independently tested by SGS in May 2024 using the European standards EN 13823 (Single Burning Item test) and EN ISO 11925-2 (ignitability test).

The tested panel achieved a Euroclass B-s1, d0 fire classification. This rating indicates limited contribution to fire, very low smoke production, and no flaming droplets or particles during testing. The results confirm that Miixfelt™ meets the requirements for use in commercial interior environments where both acoustic performance and fire safety are critical.

The classification applies to Miixfelt™ when installed as an indoor acoustic wall lining, mechanically fixed to substrates classified as A1 or A2, with no joints, reflecting the tested configuration.

The results confirm that Miixfelt™ meets the requirements for use in commercial interior environments

Key Points

- Fire classification: B-s1, d0

(limited combustibility, very low smoke production, no flaming droplets)

- Tested to: EN 13501-1:2018
- Test methods: EN 13823 and EN ISO 11925-2
- Approved use: Indoor wall applications for sound absorption
- Installation condition: Mechanically fixed to A1/A2 substrates, no joints

Reaction to Fire Performance (12 mm panel)

- $FIGRA_{0.2}MJ$ (fire growth rate): 51.2 W/s
- $THR_{600}s$ (total heat release): 2.5 MJ
- SMOGRA (smoke growth rate): 0.9 m^2/s^2
- $TSP_{600}s$ (total smoke production): 15.1 m^2
- Lateral flame spread to specimen edge: No
- Flaming droplets or particles: None observed

These test results demonstrate that Miixfelt™ provides a robust balance of fire performance, material integrity, and acoustic functionality, making it suitable for use in offices, education, hospitality, and other commercial interior wall applications where compliance with European fire standards is required.

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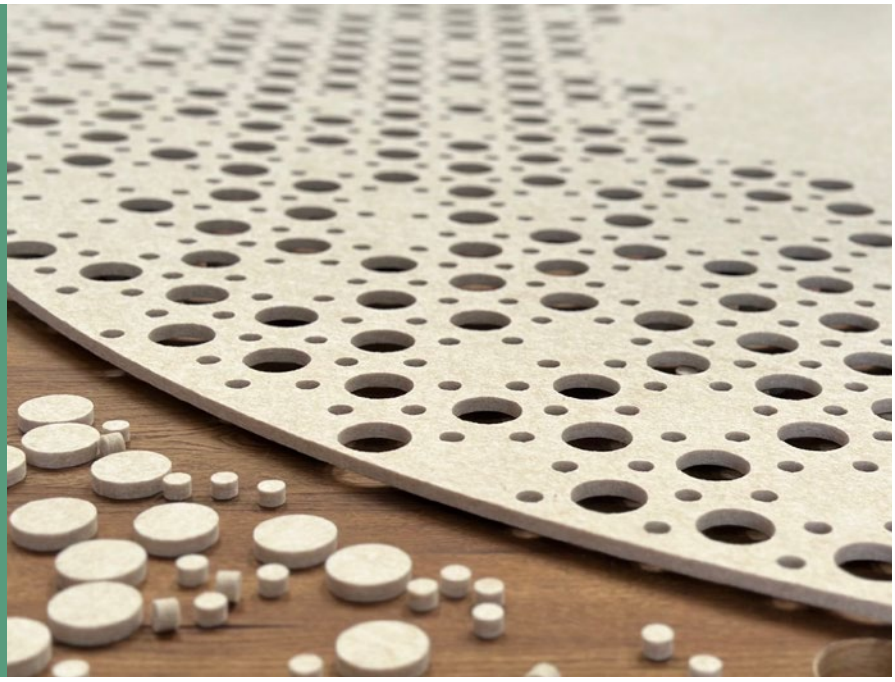
Health Effects / Personal Protection

Miixfelt™ poses no known health risks during handling or installation. Protective gear is not required, as loose fibres are non-respirable. When cutting, use cut-resistant gloves and safety glasses. Always follow manufacturer and site-specific safety guidelines. First aid is rarely needed. If exposed to combustion fumes, move to fresh air and seek medical attention if symptoms persist. If ingested, do not induce vomiting—seek immediate medical help.

Storage & Transport

Follow the packaging recommendations provided by the manufacturer. Ensure that the product is stored on top and keep it clean and dry. Avoid squashing or bending the product or its packaging. It's important to note that Miixfelt™ Acoustic products are not classified as dangerous goods.

A 12mm panel of Miixfelt™ incorporates up to **350** recycled bottles



Pattern Repeat

Non-woven. There is no pattern repeat in the product, but it does exhibit directional grain. Variations in the product's appearance from samples and between batches can occur due to the inherent characteristics of fibre blending and lay-up.

Fabric Care

Blot spills immediately. Wipe with a damp cloth—avoid rubbing or over-wetting to preserve the finish. If using carpet or upholstery shampoo, follow the instructions and blot dry after each application. For custom printed Miixfelt™, use a specialist cleaning service.

Circular Design & Take-Back Scheme

We design for reuse and reprocessing. Our take-back programme for end-of-life Miixfelt™ PET products supports:

1. Shredding for Acoustic reuse in base absorber products
2. Re-use in decorative resin sheet goods for surfaces
3. Energy-from-Waste (EfW) processing when reuse isn't viable

Returned materials are evaluated for contamination, and processing methods are agreed in advance.

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Economic Responsibility

Sustainable Growth

Our business model emphasises sustainable growth that balances economic success with environmental and social responsibility. We strive for long-term profitability without compromising our values.

Certification at Lumii HQ

Lumii Design manufacturing process has been accredited with the Made in Britain badge, as well as The British Assessment Bureau ISO 9001, 14001 & 45001.

Innovation and R&D

We invest in research and development to create innovative, sustainable design solutions. By staying at the forefront of sustainable design, we aim to set new industry standards.

Transparent Practices

Lumii Design is committed to transparency in our operations. We regularly report on our sustainability performance and progress towards our goals.

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Certificates & Accreditations

Miixfelt™ EPD Certified View Document

Miixfelt™ EPD Verified
(EN 15804+A2 / ISO 14025)
Independently certified environmental impact across a product's full lifecycle.

GREENGUARD Gold Certified
Low chemical emissions, safer indoor air quality assured.

Made in Britain Member
Certified UK manufacturing, supporting local industry and sustainability.

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UCAS-tested at Salford University
Verified UK acoustic performance to industry standards.

OEKO-TEX® Standard 100
Certified free from harmful substances, safe for human use.

CHAS Certified
Verified health and safety compliance for contractors and suppliers.

Contains 75% Recycled Content
Reducing waste and supporting circular production.

Global Recycled Standard (GRS)
Certifies recycled content, responsible sourcing, and traceable supply chains.

Certified as REACH compliant
Ensuring safe chemical use and environmental protection.

Carbon Footprint Verified
Independently confirmed measurement of a product's greenhouse gas emissions.

Certified polyester panel
Colour fastness - Excellent, 6-7, SGS approved.

ISO 9001, 14001 & 45001 Certified
Ensuring quality, environmental, and safety management excellence.

Certificates & Reports

At Lumii, we are constantly evolving our acoustic solutions to be both beautiful and sustainable, staying attuned to global trends in architecture and design. We believe that taking care of the environment is essential to our success and are committed to continually reducing our carbon footprint and promoting eco-friendly practices within our industry.

We're committed to sustainability in all design and production stages. We minimize cutting waste, avoid glue, and ensure products are recyclable. Leftover materials are recycled into acoustic fillings or reused as packaging to reduce waste.

Recycled Content Certification

Burgeree New Tech Jiangsu Co., Ltd.'s Polyester (PET) Acoustic Panel H has been independently certified by SCS Global Services to contain at least 75% post-consumer recycled polyester staple fibre, in accordance with the SCS Recycled Content Standard V8-0.

This certification, reinforces Lumii's commitment to sustainability through the use of Miixfelt™, a leading material believed to offer one of the highest recycled contents on the market. Valid: 25/05/25 – 24/05/26

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Intertek – VOC Emissions Report

The VOC Emissions Report provides detailed testing results for Volatile Organic Compound (VOC) emissions associated with Lumii Design and Lumii Design's supplier, Miixfelt™ polyester products.

The report follows standardised testing methodologies and indicates that after 14 days in an office room scenario:

- VOC Emissions: 0.092 mg/m^3
- Formaldehyde Emissions: Less than 0.002 mg/m^3

These values confirm that Miixfelt™ (PET) products meet the specified limits of applicable green building standards and regulations, ensuring low emissions and contributing to a healthier indoor environment.

Ti Group – Greenhouse Gas Emissions

The Greenhouse Gas Emissions Verification Statement confirms the accuracy and integrity of reported emissions from Lumii Design's supplier, Burgeree New Tech Jiangsu Co. Ltd.

Verified in accordance with recognised standards such as ISO 14064-3 and the GHG Protocol, the report confirms that Burgeree's emissions data is complete, consistent, transparent, and free from material misstatement.

The conclusion affirms that the report fairly represents actual emissions, and the document is officially signed and accredited by the independent verification body.

Global Recycled Standard (GRS) Certification

Burgeree New Tech Jiangsu Co., Ltd. is certified by Bureau Veritas Consumer Products Services, Inc. under the Global Recycled Standard (Version 4.0).

The updated certificate, valid from January 4, 2025 to January 3, 2026, confirms compliance for product categories including:

- Non-woven fabrics
- Luggage
- Furniture
- Acoustic panels

These are classified as fabrics, carried accessories, hard goods, and industrial/technical items. Certified processes include manufacturing and non-woven manufacturing, carried out at Burgeree's facility in Changshu, Jiangsu, China.

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REACH – SVHC Report / OEKO-TEX® STANDARD 100

Certified PET acoustic panels (white & mélange) as decorative materials
Issued by TESTEX AG, Valid until 31/01/2026. Includes: Test Report SH001 251690.1, EN ISO 17050-1 conformity, Terms of Use.

REACH – SVHC Fire Classification
24mm light grey polyester fibre panel tested by SGS-CSTC
Classification: B-s1, d0 (low fire growth, minimal smoke, no droplets)

Key Results:
- FIGRA: 68.2 W/s
- THR600s: 2.9 MJ
- SMOGRA: 4.7 m^2/s^2
- TSP600s: 39.8 m^2

TI Group – Energy Management System Certificate

The document is an Energy Management System Certificate issued to Transglobal Glass Co., Ltd. It confirms that the company has implemented and maintains an energy management system in compliance with the ISO 50001:2018 standard. The certification was issued by SGS United Kingdom Ltd. Systems & Services

Certification is for the scope of "Design and Manufacture'. The certification is valid from December 18, 2023, to December 17, 2026.

GREENGUARD Gold Certificate

This GREENGUARD Gold Certification for Burgeree New Tech Jiangsu Co., Ltd. covers polyester fiber acoustic panels in thicknesses of 6mm, 8mm, 9mm, 12mm, 15mm, 18mm, and 24mm.

Valid from October 28, 2024, to October 28, 2025, it certifies compliance with UL 2818 and UL 2821 emissions standards, as well as ANSI/BIFMA and CDPH v1.1-2010.

The panels are suitable for use in commercial furniture, offices, classrooms, and open-plan spaces. Certification ensures low-VOC emissions for safer indoor air quality and can be verified via the UL SPOT database.

TI Group – Product Carbon Footprint Verification Statement

This statement verifies that Burgeree New Tech Jiangsu Co., Ltd. has accurately reported the carbon footprint of its PET products in compliance with relevant greenhouse gas reporting standards.

Issued by an independent third-party organisation on December 12, 2023, the verification confirms that the reported emissions data reliably reflects the environmental impact of Burgeree's PET product manufacturing.

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GHV Verified Greenhouse Gas Emissions Statement – Burgeree (Lumii Miixfelt™ Supplier)

Burgeree New Tech Jiangsu Co., Ltd., the manufacturing partner and Miixfelt™ PET acoustic material supplier to Lumii Design, has had its 2024 Greenhouse Gas (GHG) Emissions Report independently verified by the China Quality Certification Centre (CQC). Based in Changshu, Jiangsu Province, China, Burgeree manufactures polyester fibre acoustic panels and reported total greenhouse gas emissions of 2,465 tonnes of CO_2 equivalent for the period 1 January to 31 December 2024, with no greenhouse gas removals recorded. Emissions were primarily associated with energy consumption, alongside smaller contributions from direct emissions and transport-related activities. The quantification, monitoring, and reporting of emissions fully comply with ISO 14064-1:2018 and were verified in accordance with ISO 14064-3:2019, achieving a reasonable level of assurance with no material misstatements identified. This reporting period also represents Burgeree's baseline year for future greenhouse gas measurement and reduction initiatives.

Carbon Neutral Manufacturing Certification – Burgeree (Lumii Miixfelt™ Supplier)

Burgeree New Tech Jiangsu Co., Ltd., the manufacturing partner and Miixfelt™ PET acoustic material supplier to Lumii Design, has been formally certified as carbon neutral for the reporting period 1 January to 31 December 2024 by the China Quality Certification Centre (CQC). During this period, Burgeree recorded total direct and energy-related indirect greenhouse gas emissions of 2,465 tonnes of CO_2 equivalent arising from its production and operational activities at its Changshu manufacturing facility. These emissions have been fully neutralised through the retirement of China Green Electricity Certificates (GECs) and verified carbon units (VCUs) under the Verified Carbon Standard (VCS) programme. Emissions quantification, monitoring, and reporting comply with ISO 14064-1:2018, and the carbon neutralisation process meets the requirements of PAS 2060:2014, confirming a verified and transparent approach to carbon neutrality within Lumii's supply chain.

Product Carbon Footprint Certification – Miixfelt™ PET Acoustic Panel (Burgeree)

The Miixfelt™ PET acoustic panel manufactured by Burgeree New Tech Jiangsu Co., Ltd., Lumii Design's material supply partner, has been awarded a certified Product Carbon Footprint by the China Quality Certification Centre (CQC). The certification applies to the polyester fibre acoustic panel (BZ-37, grey, 2440 × 1220 × 9 mm) and covers the data collection period from 1 January to 31 December 2024. Based on a cradle-to-gate system boundary, the verified carbon footprint is 7.20 kg CO_2e per m^2 of product. The assessment was carried out in accordance with ISO 14067 and PAS 2050 standards, confirming a transparent and robust lifecycle carbon calculation. Analysis shows that the majority of emissions (86.67%) arise from raw material sourcing, with the remaining 13.33% attributed to the manufacturing process, providing clear insight into where ongoing carbon reduction efforts can be focused.

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Fire test results for Miixfelt™

All three polyester fiber acoustic panels of Lumii Miixfelt™ — 9mm, 12mm, and 24mm — were tested under EN 13501-1:2018 fire classification standards. Each panel achieved a fire rating of B-s1, d0, indicating limited combustibility, low smoke production, and no flaming droplets. This consistent classification confirms their suitability for indoor wall applications where both acoustic performance and fire safety are critical.

Key Points:

- Fire rating: B-s1, d0 (limited combustibility, low smoke, no flaming droplets)
- Tested to: EN 13823 and EN ISO 11925-2
- Approved use: Indoor walls, mechanically fixed on A1/A2 substrates, no joints

Performance:

- FIGRA (fire growth rate): 62.5–71.6 W/s
- THR600s (heat release): 2.6–2.9 MJ
- SMOGRA: 4.7–11.8 m^2/s^2
- TSP600s (total smoke): 19.5–39.8 m^2

Miixfelt™ Acoustic Test Results Summary' from Salford University

Independent acoustic testing by the University of Salford confirms the excellent sound absorption performance of Lumii Miixfelt™ panels. Tested in accordance with BS EN ISO 354, the panels achieved up to Class A acoustic ratings across multiple thicknesses when installed with air gaps. Full results available in the report.

Highlights:

- Tested to BS EN ISO 354:2003 in a reverberation room
- Achieved up to Class A sound absorption (BS EN ISO 11654)
- Effective across a wide frequency range (125Hz–5000Hz)
- Performance improves with increased thickness and air gap

Conclusion

Sustainability lies at the heart of Lumii Design's mission. We strive to create designs that improve lives while supporting a healthier planet and society. Through circular design, certified materials, zero-waste practices, and community care, we're shaping better environments for both people and planet.

Sustainability is our foundation - not an afterthought.

We invite our customers, partners, and stakeholders to join us on this journey toward a sustainable future. For more about our acoustic and sustainable Miixfelt™ PET culture, visit www.lumii.design or contact us at hello@lumii.design for documentation and inquiries.

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