

Technical & Compliance Guide

Product guidance, sustainability evidence and technical documentation for LayerFelt PET acoustic solutions.



This guide has been created to support trade partners, contractors, fabricators, acoustic consultants and project teams with the key information required to specify, handle, install and evidence LayerFelt products with confidence.

Inside you will find practical product guidance, links to supporting documentation, sustainability information, fire performance documents, acoustic test data, installation guidance and care advice.

This document is intended to act as a central reference point for common project questions, helping trade clients access the information they need quickly and clearly.

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The Company

LayerFelt supplies high-performance PET acoustic products for commercial interiors, fit-out and fabrication.



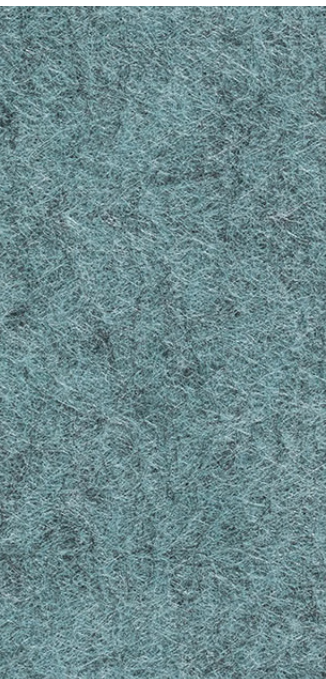
Built for trade, our range supports contractors, fabricators, resellers and project teams with acoustic sheet products, fabricated components, printed finishes, CNC-cut panels and bespoke interior acoustic solutions.

We focus on practical specification, reliable supply, competitive trade pricing and clear technical support, helping our partners deliver acoustic projects with confidence.

Our UK stock programme, manufacturing network and fabrication capability allow us to support projects from simple sheet supply through to more complex cut, printed, etched or assembled acoustic systems.

Product Composition

LayerFelt products are manufactured from LayerFelt PET, a thermally bonded polyester fibre acoustic felt containing up to 75% recycled plastic bottle content.



LayerFelt PET is lightweight, versatile and suitable for a wide range of interior acoustic applications, including wall panels, ceiling features, suspended baffles, rafts, screens, dividers and fabricated acoustic forms.

LayerFelt PET has been fire and acoustic tested in both 12mm and 24mm thicknesses, with supporting test documents available through this guide.



Key Product Characteristics

- Manufactured from LayerFelt PET
- Up to 75% recycled plastic bottle content
- Fire tested in 12mm and 24mm thicknesses
- Acoustic tested in 12mm and 24mm thicknesses
- Thermally bonded polyester fibre construction
- No added formaldehyde binders
- Low VOC emissions
- Lightweight and easy to fabricate
- Suitable for CNC cutting, V-grooving, printing, etching and forming
- Non-toxic and suitable for interior environments

Product composition, density and finish may vary depending on product type, thickness, colour and manufacturing method.

Manufacturing & Sustainability

LayerFelt works with an established UK manufacturing partner to provide reliable, trade-focused acoustic product supply.

Our supply chain has been developed around quality, consistency, value and responsiveness. This allows us to support UK trade partners with stocked sheet products, project-based fabrication and fast access to a broad range of colours, finishes and technical options.

UK Manufacturing & Production Capability:

- Sheet supply
- CNC cutting
- V-grooving
- Printed PET finishes
- Laser cutting and etching
- Bespoke acoustic components
- Fabricated panels, baffles, rafts and screens
- Production planning for approved project files

Our UK manufacturing partner operates from a carbon negative warehouse and a fully solar powered production facility, supporting lower-impact manufacturing and responsible UK-based production.

Their investment in renewable energy, efficient production processes and waste-conscious manufacturing helps strengthen the sustainability credentials behind the LayerFelt product offer.

Clients should provide clear project requirements and suitable production files wherever possible. Where additional design, CAD, DXF preparation, drawing amendments, layout work or sheet optimisation is required, this can be quoted separately as a chargeable service.

Trade Partners

LayerFelt is built around trade value, not showroom mark-up. We work with contractors, resellers, fabricators, acousticians and fit-out teams who need commercially viable acoustic solutions without compromising on quality, finish or technical support.

Client Design Files & Project Information

To ensure accurate pricing, production and lead times, clients should provide clear project information and, where applicable, suitable design files at enquiry stage.

This may include:

- Dimensions and quantities
- Drawings, layouts or elevations
- CAD, DXF, DWG, AI, PDF or other relevant production files
- Required thickness, colour and finish
- Installation location and fixing method
- Fire or acoustic performance requirements
- Site-specific constraints or deadlines

LayerFelt can review supplied information and advise on product suitability, production options and value-engineering opportunities where appropriate.

Where clients require LayerFelt to create, amend, redraw or develop production files, this can be provided as a chargeable service. Design, CAD, DXF preparation, layout work, sheet optimisation and project development time will be quoted separately where required.

Partner Benefits

Unlock exclusive perks as a LayerFelt Partner, including practical advice from enquiry through to production.



Quality & Consistency

Our partners operate with specialist equipment and controlled production processes, ensuring reliable, repeatable quality across all products.



Cost Efficiency

Utilising existing manufacturing infrastructure allows us to maintain competitive pricing while delivering high-quality materials.



Reliable Supply Chain

Established manufacturing relationships strengthen supply chain resilience and ensure consistent availability.



Sustainability Integration

Our partners actively invest in more sustainable production methods, including renewable energy generation and efficient resource management.



Efficient Lead Times

Streamlined production and logistics enable dependable lead times and delivery performance.



Compliance & Standards

Manufacturing is carried out in line with relevant industry standards and quality expectations.



Scalability & Flexibility

Production can scale in line with demand, supporting both bespoke requirements and large commercial projects.



Collaboration & Innovation

Close working relationships enable continuous development, improved finishes, and new product solutions.

Product Applications

LayerFelt PET products are suitable for a wide range of commercial interior acoustic applications.

LayerFelt products can be used across offices, education, hospitality, leisure, public spaces, meeting rooms, breakout areas and commercial fit-out projects. Product suitability should always be assessed against the specific project requirements, including fire performance, acoustic performance, fixing method, location and intended use.



Acoustic wall panels



V-groove wall features



Printed acoustic panels



Ceiling rafts and islands



Suspended baffles



Grid ceiling systems



Desk screens and dividers



Feature walls



Pinboards and notice boards



Acoustic planters

Technical Document Hub

This guide is designed to act as a central reference point for key LayerFelt technical and compliance documents.

Available documents may include:

- Fire classification reports
- Acoustic test results
- Sustainability statements
- Manufacturing and sustainability credentials
- VOC / indoor air quality information, where available
- Recycled content information
- Cleaning and maintenance guidance
- Installation guidance
- Colour and finish information
- Project-specific supporting documents, where required

Technical documents

[Fire Test Report](#)[Sound Absorption Test](#)[Test Report for EU REACH Compliance](#)[Total Elements Content](#)[Anti-Bacterial Test](#)[OEKO-TEX Certificate](#)[EPD Environmental Product Declaration](#)

Installation Guidance

LayerFelt products are designed to be easy to fabricate, handle and install when used with the correct fixing method and by experienced installers.

Installation should be carried out by competent contractors familiar with interior acoustic products, PET felt products and the specific system being installed. Final responsibility for installation suitability remains with the installer and project team.



General Guidance

- Confirm product type, thickness, colour and finish before installation
- Check all site dimensions prior to cutting or fixing
- Ensure fixing methods are suitable for the substrate and product weight
- Allow for tolerances, expansion, minor movement and site conditions
- Handle panels carefully to avoid edge damage or surface marking
- Use clean gloves where required, especially with lighter colours
- Follow any project-specific drawings or installation instructions supplied

LayerFelt can provide product-specific installation guidance where required. should be reviewed in relation to the supplied drawings, fixing method, substrate, product weight, access requirements and site conditions.

Sustainability & Environmental Evidence

Sustainability is central to the LayerFelt product offer. Our PET acoustic products contain up to **75% recycled** plastic bottle content and are designed to support long-term, lower-impact commercial interior solutions.



Our LayerFelt. produce is certified **75% Recycled** content.

By combining acoustic performance, durability, lightweight handling and efficient fabrication, LayerFelt helps project teams make more considered product choices.

Recycled Plastic Bottle Content

Our panels contain up to 75% recycled plastic bottle content, supporting the reuse of post-consumer plastic and helping reduce reliance on virgin raw materials.

Reduced Transport Impact

Lightweight product construction and efficient logistics can help reduce transport-related impact compared with heavier interior products.

Low Emissions

Healthier interiors via zero-formaldehyde and low-VOC emissions.

Recyclability

PET panels can be recycled at end of life where suitable recycling facilities exist.

Product Efficiency

PET felt is lightweight, easy to cut and well suited to efficient sheet optimisation. This can help reduce project waste when layouts are carefully planned.

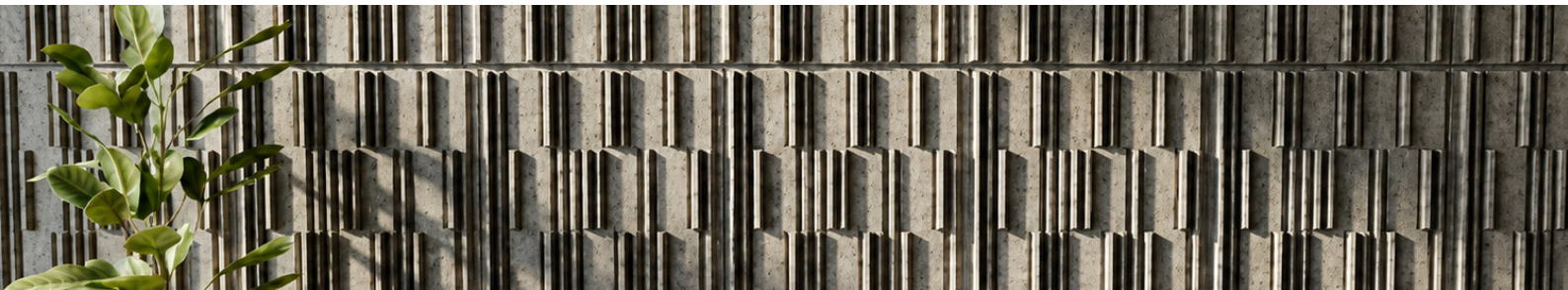
Durability & Longevity

LayerFelt products are designed for long-term interior use, reducing the need for frequent replacement.

Manufacturing Approach

LayerFelt is supported by a UK manufacturing partner with strong sustainability credentials, including a carbon negative warehouse and a fully solar powered production facility.

This supports a lower-impact production route for LayerFelt acoustic products, with renewable energy use, efficient manufacturing processes and a focus on reducing waste wherever possible.



ESG / Building Standard Alignment

LayerFelt products may contribute to environmental and wellbeing-focused building standards, depending on the project and assessment route.

Relevant areas may include recycled content, low emissions, acoustic comfort, product efficiency, waste reduction, indoor environmental quality, renewable-energy-supported production and UK-based manufacturing.

Potential alignment may include BREEAM, WELL Building Standard and SKA Rating, subject to project-specific assessment.

Project teams should assess suitability against specific scheme requirements. LayerFelt can provide supporting documentation where available.

Fire & Acoustic Performance



Acoustic Performance

LayerFelt PET products have been acoustic tested in both 12mm and 24mm thicknesses.

LayerFelt PET provides sound absorption properties designed to reduce reverberation and improve acoustic comfort in commercial interior spaces. Performance will vary depending on product thickness, panel density, air gap, installation method, product shape, layout, area coverage, room size and surface finishes.

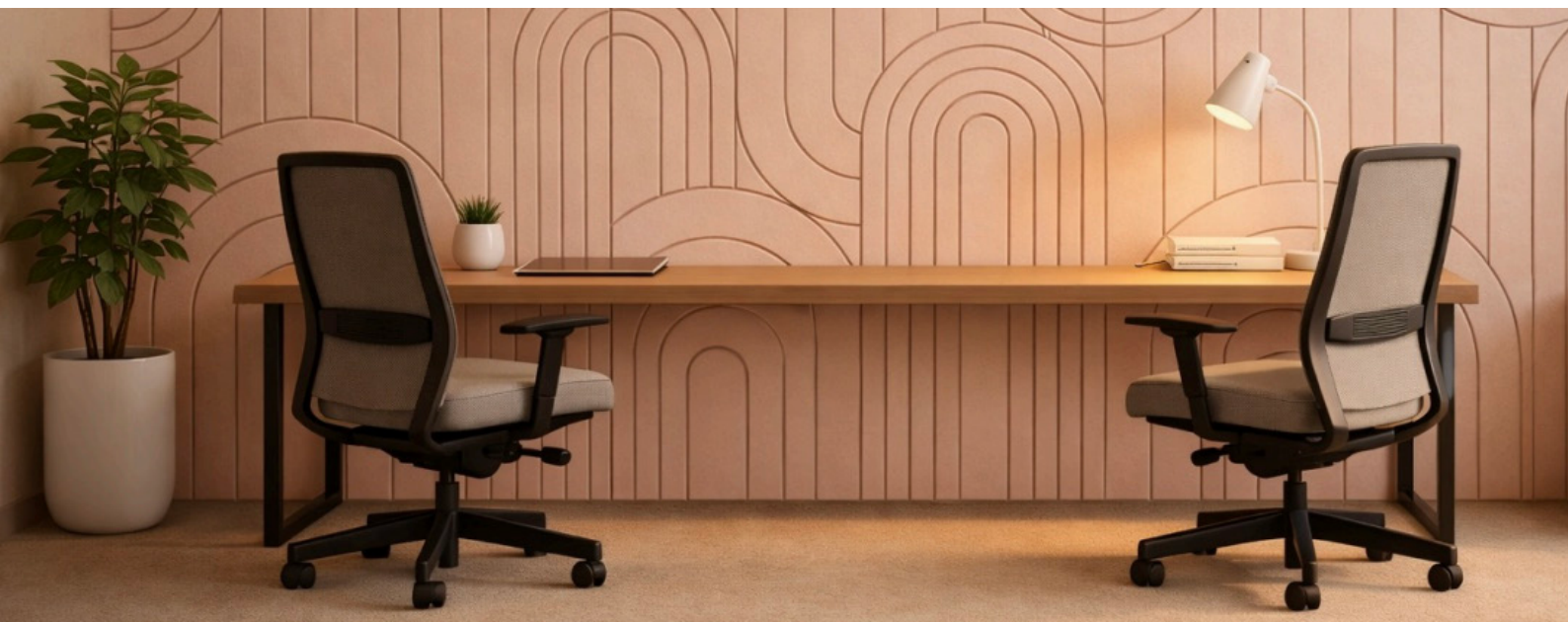
Acoustic test results are available for both 12mm and 24mm LayerFelt PET to help project teams assess suitability. For project-specific acoustic requirements, we recommend review by an acoustic consultant or competent project professional.

[View Acoustic Test Results](#)

Fire Performance

LayerFelt products are manufactured from LayerFelt PET, which has been fire tested in both 12mm and 24mm thicknesses. LayerFelt PET has been fire rated to B-s1, d0 under EN 13501-1 where applicable.

Fire performance may vary depending on product type, thickness, finish, fabrication method and final application. Printed, bonded, laminated, fabricated or installed systems may require separate consideration.



Important Fire Guidance

- Fire performance documentation is available for 12mm and 24mm LayerFelt PET.
- Fire classification should be checked for the specific product and application.
- Separate consideration applies to printed, bonded, or installed systems.
- Final suitability should be confirmed by the specifier, fire consultant, building control or project team.
- Review fire documents alongside installation method and location.

[View Fire Performance Documents](#)

Handling, Care & Tolerances



LayerFelt products are lightweight and easy to handle, but care should be taken to protect them before and during installation.

Storage Guidance

- Store flat in a clean, dry environment
- Keep products protected from site dust and moisture
- Avoid prolonged exposure to direct sunlight before installation
- Do not store near heat sources or wet trades
- Keep lighter colours protected from dirt and handling marks
- Allow products to acclimatise to site conditions before installation

Handling Guidance

- Handle panels with clean hands or gloves
- Support larger panels during movement
- Avoid dragging panels across rough surfaces
- Protect edges from impact
- Keep printed or finished faces protected until installation

Care Guidance

- Clean using a vacuum or soft brush
- Spot clean with a mild detergent where required
- Avoid harsh chemicals
- Avoid excessive moisture
- Test cleaning methods on a discreet area first

Tolerances & Natural Variation

PET felt is a textile-based product and natural variation should be expected. Slight colour variation between batches may occur. Minor surface and texture variation is inherent. Thickness tolerance should be allowed for in design and fabrication. CNC cutting and installation tolerances should be considered. Printed and etched finishes may vary slightly depending on substrate colour and batch. Colour appearance may vary under different lighting conditions.

These characteristics are part of the product and are not considered defects. Where colour consistency is critical, samples should be approved before order placement and batch availability should be confirmed.

Disclaimer

This guide is provided as general product and technical guidance for LayerFelt products.

Information may vary depending on product type, finish, thickness, installation method and project application. It is the responsibility of the specifier, installer, contractor and project team to confirm product suitability for the intended use.

Layer101 accepts no liability for misuse, incorrect installation, unsuitable application, incorrect file preparation, unsuitable fixing methods or use outside of recommended guidance.

Fire, acoustic, sustainability and compliance documents should be reviewed in relation to the specific project requirements. Where required, advice should be sought from the relevant project consultant, building control body or competent professional.

LayerFelt is happy to support with product information, technical documents, fabrication advice and project-specific guidance where available. Any design, CAD, DXF, drawing amendment, layout or sheet optimisation work required beyond standard review will be quoted separately.

For technical documents, compliance information, samples, pricing or project guidance:

Get in touch



Reach out via the details below to speak directly with Bonny or John.

Telephone: 0117 3321 213

Email: sales@layerfelt.com

Direct Contacts:

Bonny: bonny@layerfelt.com

John: john@layerfelt.com