



Optimizing Resilient Flooring

Liteback®



**Planet-Approved.
Engineered to Last.™**



It's time to redefine resilient flooring

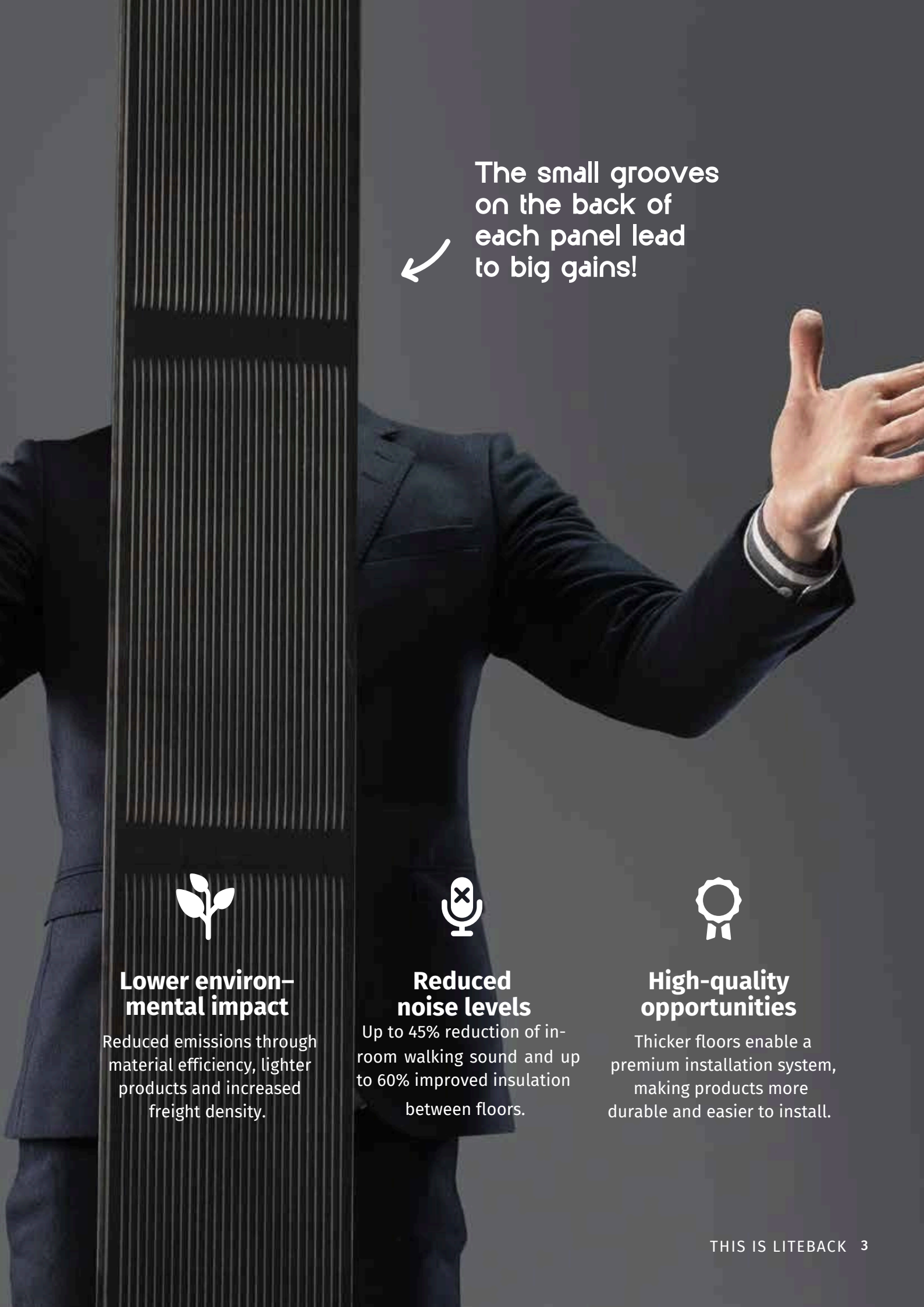
Liteback is an innovative technology that enhances resilient products like LVT, SPC, and WPC with consumer-friendly and sustainable features.

Liteback optimizes raw material usage by reducing up to 20% of the product material without compromising quality or performance. The excess material can be recycled and reused, enhancing both efficiency and sustainability.


With Liteback, your resilient flooring products are both high-quality and environmentally responsible.

Liteback is a cutting-edge technology that makes resilient floors easier to handle, more sustainable and provides them with great acoustic properties. It's an unrivalled solution for producing, transporting, storing, delivering, and installing modern resilient products.





The small grooves
on the back of
each panel lead
to big gains!



Lower environ- mental impact

Reduced emissions through material efficiency, lighter products and increased freight density.



Reduced noise levels

Up to 45% reduction of in-room walking sound and up to 60% improved insulation between floors.



High-quality opportunities

Thicker floors enable a premium installation system, making products more durable and easier to install.

Material resource efficiency

Awareness and interest in environmental issues, sustainable products and production is growing rapidly among today's – and tomorrow's – consumers and many countries already have regulations and standards aimed at promoting resource efficiency in production.

Liteback helps you optimise your resilient products to meet evolving demands. By enabling up to 20% less material usage, it opens the door to recycling and reusing materials in production. Additionally, it reduces product weight, allowing for higher freight density and more efficient transportation—ultimately lowering both costs and CO₂ emissions.



Up to 20% less
material usage



Reduced carbon
emissions



Less packaging
material



Fewer
transports

Up to 25% more sqm in each container

Transporting resilient flooring is a heavy business — and it's the weight that limits how much flooring a pallet, truck or container can handle. Simply put, Liteback means more m² per consignment — reducing both transportation costs and environmental impact.

**Reduce transportation costs and
environmental impact.**

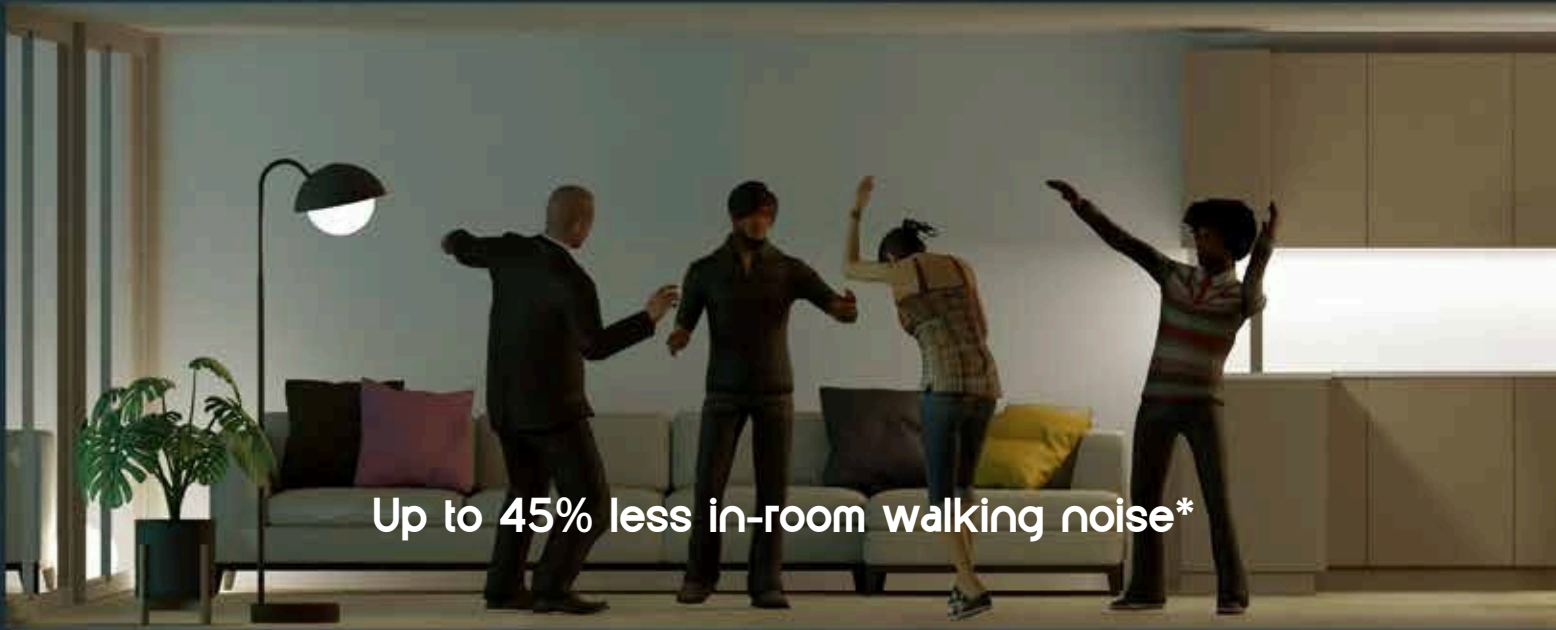
Loading of a 20' container

Example: 180 x 1220 x 5/0,55 mm SPC + 1 mm IXPE
= 18% weight savings



Regular 1757 m²/container
Product weight: 9,9 kg/m²

Liteback 2143 m²/container
Product weight: 8,1 kg/m²



Up to 45% less in-room walking noise*

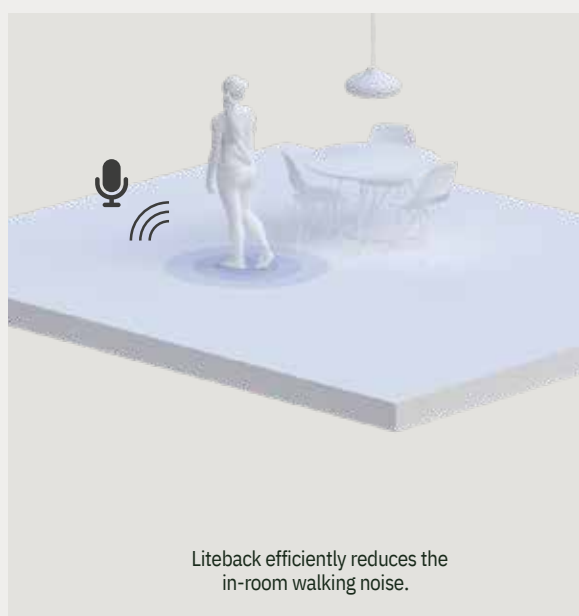


Up to 60% better sound insulation*

Up to 60% better sound insulation

Noise pollution is an increasingly important issue everywhere and regulations on sound insulation in new buildings are becoming more common. The unique grooves on the back of the floor panels can reduce impact sound caused by walking, scraping furniture legs and playing on the floor.

Standardized tests show that with Liteback, the in-room walking sound can be reduced by up to 45%, while the insulation between floors can be improved by up to 60%.



Up to 45% less in-room walking noise

Walking sound is the noise that is heard inside the room when the floor is being used, e.g. when walking over it, playing on it, etc.



Up to 60% better sound insulation

Impact sound is the noise which is perceived in the room below or next to the floor. The noise can be generated by footsteps, falling objects, etc.

**The efficiency of Liteback's sound-reducing properties depends on the material composition, build up and underlay. The potential reduction for a specific product can be verified through testing.*

User-friendly experience

The trend toward thinner SPC (Stone Plastic Composite) products has led to a decline in structural integrity and long-term durability. In response, manufacturers have increased product thickness to restore performance—an approach that also raises material consumption and overall product weight.

Liteback provides a material-efficient alternative by enabling the production of structurally robust panels with up to 20% less weight. Unlike conventional lightweighting methods, Liteback incorporates precision-engineered grooves on the panel's underside that do not compromise the integrity of the locking system.

This ensures mechanical strength and reliable joint performance remain intact. Each groove configuration is product-specific and developed through rigorous design and validation processes. Comprehensive testing confirms that Liteback maintains dimensional stability, load-bearing capacity, and impact resistance in accordance with industry standards.

By combining the performance benefits of thicker flooring with significant reductions in material usage and transport weight, Liteback supports enhanced installation efficiency, reduced logistical costs, and improved environmental performance—without sacrificing quality or durability.



**Easy to handle,
transport, store,
and install.**



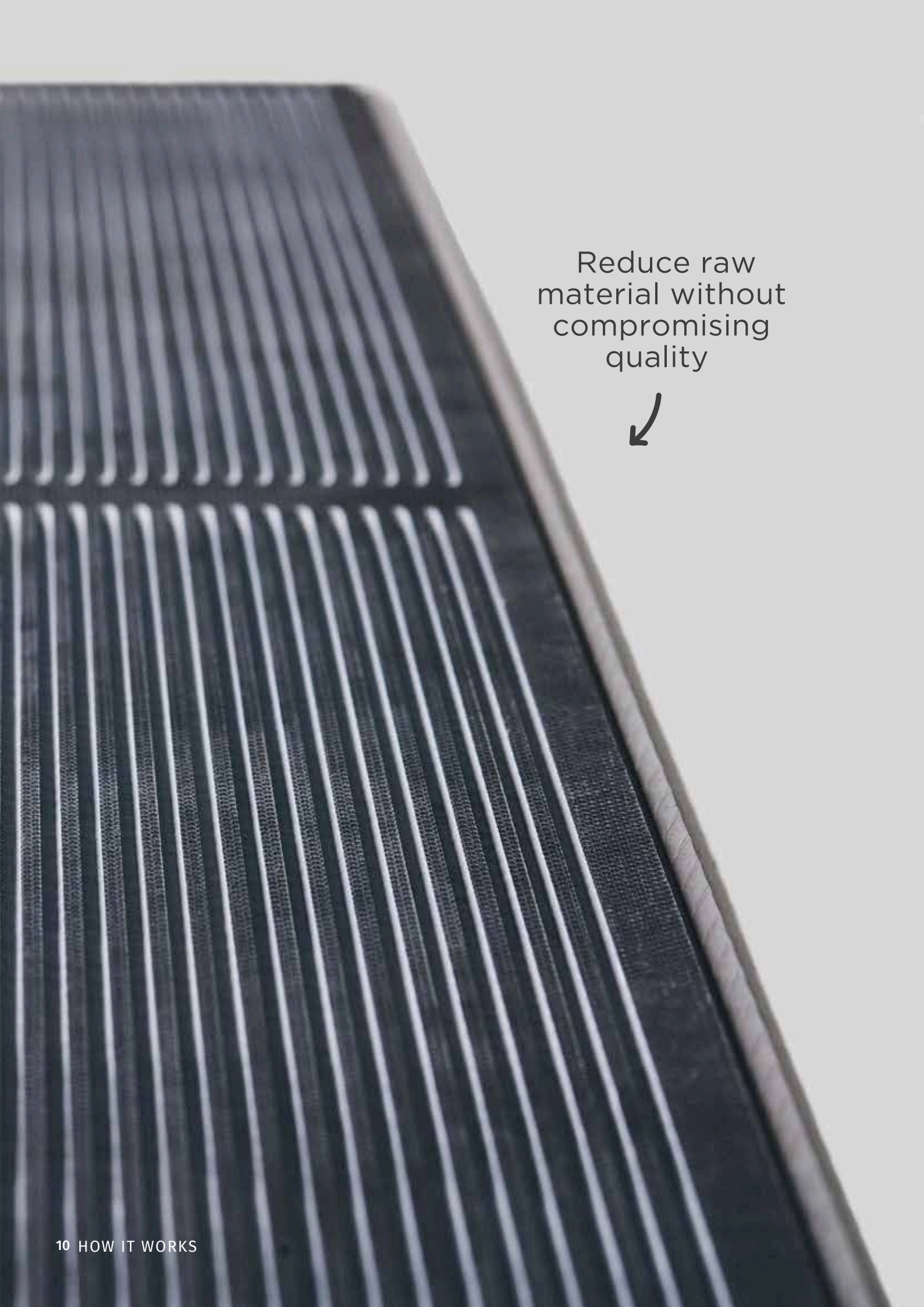
**High customer
satisfaction with
lasting results.**



**Competitive
advantages with
modern products.**

Liteback takes 8 pounds
off a standard
5 mm LVT package





Reduce raw
material without
compromising
quality



Small grooves with big results

By removing material from the core through milled grooves on the back of the panel, the weight of the final product can be reduced with up to 20%, without changing the material composition or compromising quality or performance.

By using a grooving unit, grooves are milled on the backside of the floorboard. The material that is removed in the process is recycled back into the production process, thereby reducing material consumption with up to 20%.

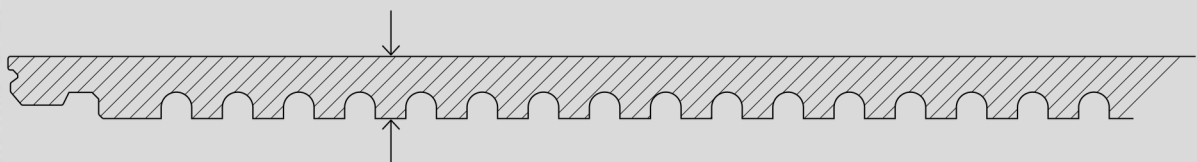


By using a grooving unit, grooves are milled on the backside of the floorboard



The material that is removed in the process is recycled back into the production

Liteback is ideal for resilient panels 4 mm or thicker



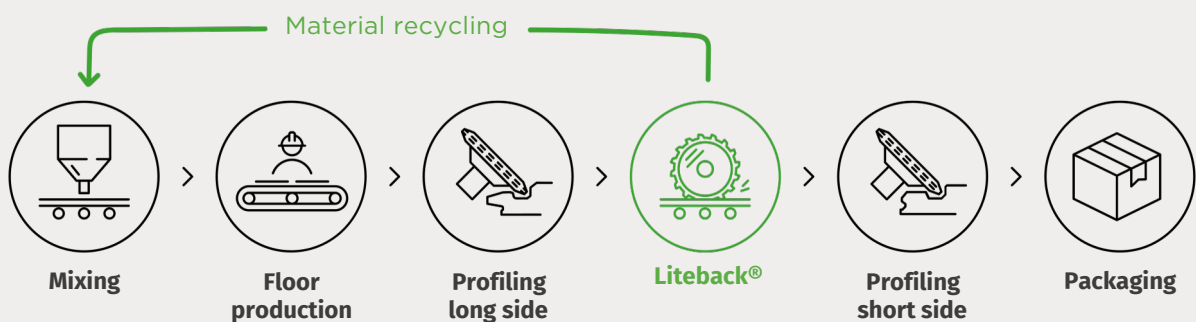
Easy implementation

Liteback integrates smoothly into your production with minimal disruption, requiring only an added grooving step on the plank's backside. The grooving unit fits ideally between long and short side profiling but can also be placed before or after profiling, depending on your setup. It works as a standalone unit for multiple lines or integrates with existing lines like underlay attachment.

**The material removed is exclusively core material,
making it easy to reclaim and reuse for new products.**

Liteback process

Liteback optimises product performance without design changes and is easy to implement in the production process.



World-class R&D

We have state-of-the-art production facilities and one of the world's leading R&D Centers for flooring. Our team of highly skilled engineers and innovators tailor our support services to meet specific needs, ensuring maximum product performance. This guarantees that all partners have the best possible solution for their products.



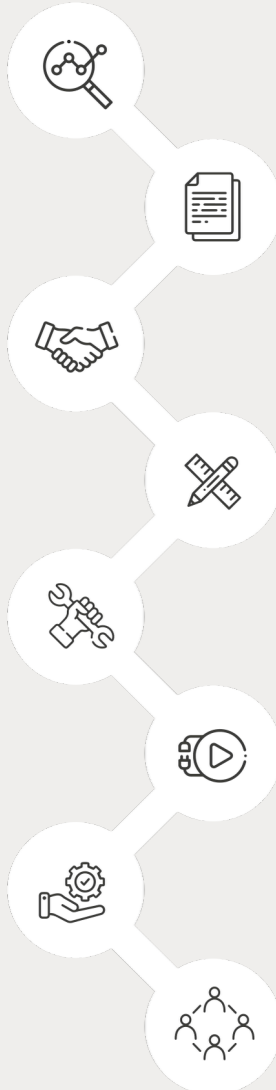
Partnering with us is easy

Evaluation We evaluate your product to help you find the optimal Liteback design based on test results and our know-how.

License agreement An agreement including license fees and other obligations from both parts is signed.

Installation Our technical experts ensure smooth integration into the existing set-up and assist on site during installation.

Expert support We support with everything from ensuring your products deliver maximum performance with our technology to offering our extensive marketing expertise.



Quotation You receive a quotation including license fees and relevant production equipment.

Design suggestion We provide a design proposal optimised for your product build-up.

Start-up Through technology transfer and start-up training at your facility, we help you get quickly started and secure the quality of your new products featuring Liteback.

Partner We aim to create reliable relations and support you with everything from new technology to access to our global network of industry-leading distributors and importers.

Planet-Approved. Engineered to Last.TM



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