

Industry

SELIT[®]

Enjoy your flooring

CATALOGUE

UNDERLAYMENT

Direct lamination

Private label accessory (OEM)

OUR COMMITMENT IS YOUR PERFECT FLOORING

"We aim to provide perfectly functioning flooring systems and we'll do anything to make that a reality."



Our mission

For more than 25 years, SELIT has been working passionately on the development of innovative flooring underlayment. Our motivation is to contribute to a perfectly functioning floor system with our products. A floor system that weathers daily challenges without compromise – because we love flooring.

We supply the flooring industry with large rolls and cut sections for direct lamination. Close collaboration with our customers ensures that our foams are perfectly tailored to the respective machine environment.

We develop individual products and product lines for OEM / private labels. In doing so, we consider specific performance and market positioning criteria.

Roland Skibbe

Frank Filbir

Hubert Bosten

– SELIT Management –

Quality and sustainability define us

For more than 40 years, SELIT has stood for plastic extrusion at the highest level of quality. Over the years we have perfected our process technology, optimised our procedures and thus become a specialist for underlayment for floating floors.

Sustainable and environmentally conscious action in production and administration are important factors in SELIT's corporate development.

We combine ecological, economic and social sustainability. By introducing a certified energy management system in 2013, SELIT has implemented an efficient use of energy resources inside the company, exceeding all standards in the sustainable dealing with resources.

Thanks to a highly modern recycling system we started shredding, melting and returning waste foam to the production process as regranulate in 2009. Our recycling rate is 95 %.

Environmental friendliness is also a big factor in our products. Our underlayment is completely recyclable, suitable for circular economy and made with recycled material.

Projects in the realm of ISO 50001 energy management

By introducing a DIN EN ISO 50001 certified energy management system, SELIT ensured an efficient use of energy resources in production and administration early on. Involving all employees also has a high priority. For teamwork yields the best results, and sustainability is no exception.



Permanent energy data monitoring



Recuperation of process heat to heat our production halls



Open-air cooling systems to optimise energy demand



Energy-efficient LED hall lighting



Energetic roof and façade renovations



Solar power system to produce power in-house

DESIGN FOR RECYCLING



To ensure the sustainable use of resources and promote a circular economy, we develop our products from the outset in such a way that they are 100% mechanically recyclable.

We use up to 80 % recycled materials in our products.

What sets our production apart:



Functionality
Quality
Usability
www.tuv.com
ID: 000004116

Made in Germany
with green energy



Our Green Story

A clear dedication to sustainable management is more important than ever before. We at SELIT take our responsibility for people and the environment seriously. To meet this challenge, we constantly strive to protect resources, lower our energy consumption, reduce waste and develop new, environmentally friendly products.

This video shows our path towards a smaller footprint.



Efficient high-performance foams

Thanks to our state-of-the-art production environment and a keen sense of how to utilise our resources, we have been able to perfect our process technology over the course of the last 40 years. Our long-standing expertise in the field of plastics extrusion benefits every single step of our process. Through continuous investment and a passion for innovation, we ensure that our customers receive exceptional products of the highest quality.

Our production system is vertically integrated. We cover the various stages of the value creation chain.

A total of eight state-of-the-art extrusion lines transform raw material granulate into a micro-cellular foam panel using heat and pressure. Thanks to low density, the process is extremely material-efficient and conserves resources. This is followed by further processing and, if requested by the customer, finally packaging into ready-to-sell private label product units.

Foam refinement

- Printing
- Embossing
- Lamination
- Coating
- Edge refinement

Base material



- ▶ Depending on the desired properties, we use either polystyrene granulate (PS) or polyolefin granulate (PO) as our foam extrusion base material, as well as coloured granulates and other additives.

Blank roll



- ▶ Using heat and pressure, the granulate is turned into a flexible, closed-cell foam panel. A blank roll is 1.80 m wide and has a diameter of up to 2.40 m. Depending on material thickness, lengths of up to 3,500 m are possible.

Refinement



- ▶ Depending on individual customer needs / final product requirements, we refine the foam. This can involve print or a laminated moisture protection film. Customer-specific embossing is also possible.

Packaging



- ▶ For OEM products, the refined product is processed into folding panels, regular panels or rolls and packed into an appealing private label retail unit.

Selected materials and physical forces within an extruder form the basis for a unique foam quality that has no equal.

Research and development: Products that make a statement

SELIT aims to develop innovative products that improve the performance of a floor system, protect the floor from damage and improve user comfort.

That's why we analyse trends in the flooring industry and think about the following questions: Where is the flooring market going? Based on this, we develop our product portfolio, creating products that make a statement.

For a few years now, we have been running a technology centre at our Erbes-Büdesheim site equipped with a testing plant where we test various raw material and recipes and develop innovative foams, aiming to

optimally serve our customers' needs and the demands of the market.

Many projects are realised with industry partners to develop the right solution for individual floor systems.



Our competences

- Developing innovative product solutions
- Developing individual foams with our customers
- Sample and trial production
- Pioneering formulation and material research

Application technology: Guaranteed performance data

Our new, innovative product solutions are developed in close collaboration with the Application Technology Department. In 2012, we have established an industry-first 500m² testing and development laboratory in Erbes-Büdesheim.

Its testing efforts are based on the European Standard EN 16354 that defines testing procedures to determine the technical properties of underlayment. We are able to map the required testing procedures in our laboratory. This allows us to tailor products to specific performance data and properties, always working closely with our customers.

In addition to standard specifications, however, we never lose sight of reality and

always consider the floor system from the user's perspective. As a result, we put our first climate chamber into operation in 2016, which enables us to test the effects of sunlight, humidity and temperature on a floor system. In addition, specially developed test benches allow us to simulate the service life of a floor system over the course of decades.

With our experience and knowledge, we support the technical working groups of the European associations EPLF and MMFA. In addition, we are currently actively involved in the standard committees of DIN, CEN and ISO.



Acoustic test facility

Association affiliation



Range of services

- Acoustic test facility
- Climate chamber / sunbeam simulator
- Thermo-dynamic testing
- Material testing
- Load testing
- Other material tests



UNDERLAYMENT FOR

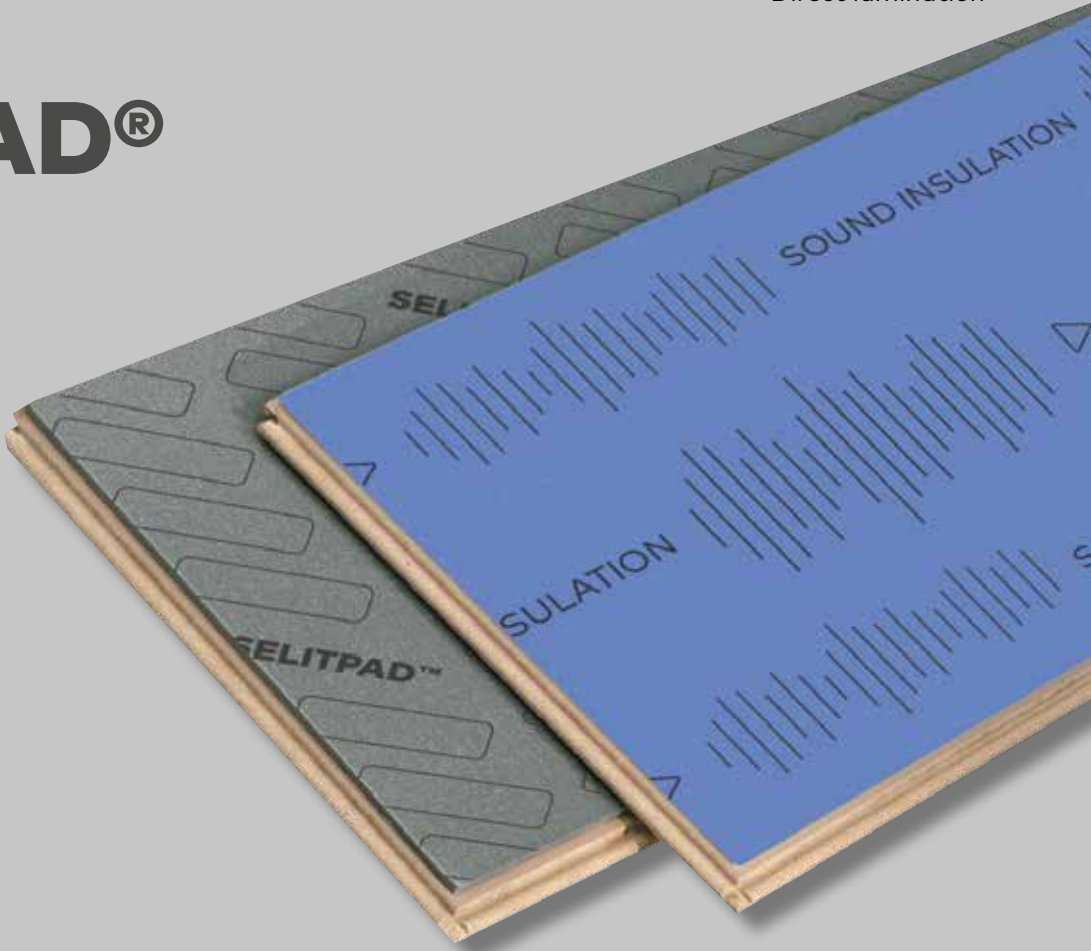
DIRECT LAMINATION

Individual foam solutions for pre-laminated floor boards

For 25 years now, SELIT Dämmtechnik GmbH has been supplying the flooring industry with premium synthetic foams for direct lamination. We are proud of this collaboration that provides us with valuable input for developing our own underlayment. In recent years, developments on the flooring market has made our product portfolio grow, leading to us offering polystyrene and polyoefin foams under the SELITPAD® brand. Individual collaboration with our customers provides a valuable foundation for further development, allowing us to continue developing new, innovative solutions for industry and retail.



SELITPAD®



Product features

	XPO	XPS
Type of foam	Closed-cell, extruded, non-crosslinked polyoefin foam (PE/PP)	Closed-cell, extruded, non-crosslinked polystyrene foam (PS)
Compressive strength	90 – 500 kPa	60 – 500 kPa
Thickness	0.8 – 2.0 mm	1.0 – 3.0 mm
Width	Roll: up to 1,400 mm	Roll: up to 1,800 mm Sheets: up to 1,250 mm
Length	Roll: up to 2,000 m	Roll: up to 3,500 m Panels: up to 2.5 m

Further individualisation options upon request

Finishing

Using state-of-the-art extrusion technology and many years of expertise, SELIT produces polymer foams at the highest level. To provide the foamed product with various different properties and extend its range of application, we have various refinement options at our disposal.

- ▶ **PRINT:**
Individual, printed large-area patterns and logos
- ▶ **EMBOSSING:**
Individual appearance and feel through comprehensive embossing
- ▶ **SURFACE TREATMENT:**
Surface optimisation to improve bonding (e.g. glue and print)
- ▶ **COATING:**
Product property improvements through surface coatings (e.g. adhesive coating with parting film)
- ▶ **PERFORATION:**
Foam perforation for optimal air circulation

Quality and sustainability

- ▶ Improved adhesive effect through surface treatment, low glue consumption
- ▶ Excellent noise insulation
- ▶ High tensile strength
- ▶ High performance at low thickness
- ▶ Compressive strength and durable for lasting performance
- ▶ Individual size, colour and refinement options
- ▶ 100 % recyclable, zero waste
- ▶ Easy to apply in high-speed application
- ▶ Resistant to moisture, mould and bacteria
- ▶ Resistant to solvents and chemicals*
- ▶ Low emissions, environmentally friendly and non-toxic
- ▶ Weight-efficient and resource friendly thanks to low density



100 %
recyclable

ISO 50001
ISO 9001

Energy-efficient
production

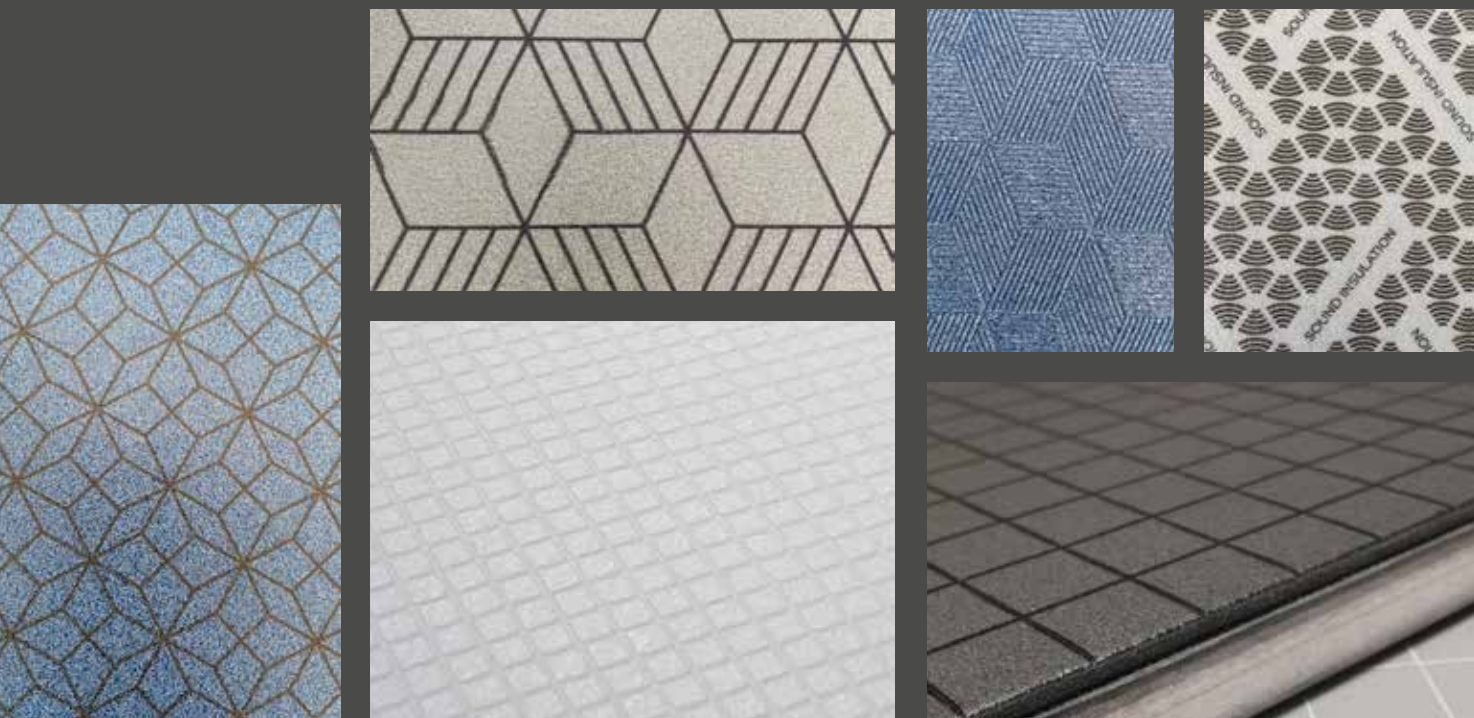


Harmless to
health



Made in
Germany

*only applies to XPO





UNDERLAYMENT AS A
PRIVATE LABEL (OEM)
ACCESSORY

We support you on your way towards a successful house brand

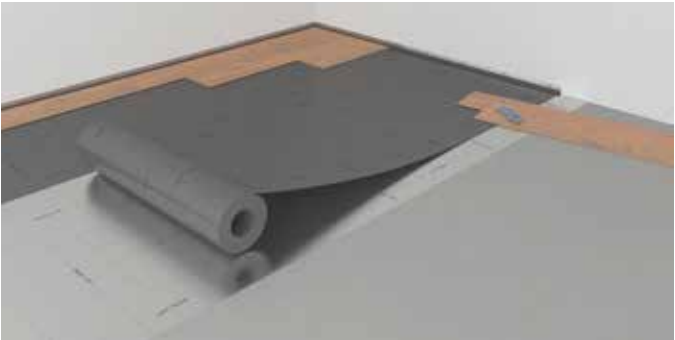
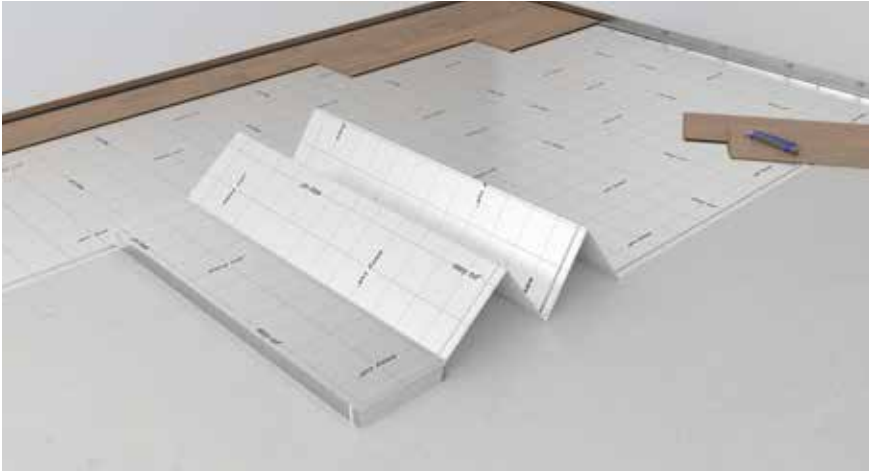
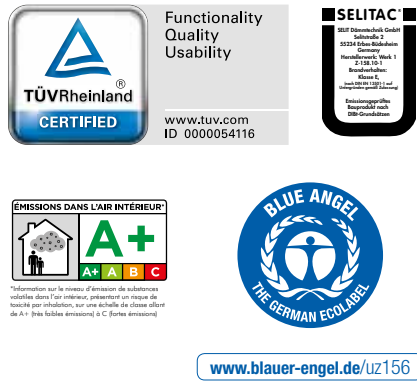
Are you looking to develop innovative products and product lines under an individual house brand or make existing products more individual? From rolls to folding panels, we serve as your strong partner, guiding you from product idea and development all the way to implementation and production.

Our internal Graphics Department will further-more develop packaging to perfectly fit your product. In the context, you can benefit from our wide range of services for market-oriented solutions: individual product names, forms of packaging, images, graphics etc. Powerful logistics, swift delivery chains and extensive product flexibility provide maximum customer satisfaction.

Team up with SELIT to lay the corner stone for successfully placing your in-house brand products on the market and selling them.



Certification options:



Laminate / parquet underlayment product features

	EPS	XPO	XPS
Type of foam	Expanded polystyrene foam (PS)	Closed-cell, extruded, non-crosslinked polyoefin foam (PE/PP)	Closed-cell, extruded, non-crosslinked polystyrene foam (PS)
Compressive strength	60 – 90 kPa	90 – 500 kPa	60 – 500 kPa
Thickness	1.6 – 10 mm	1.0 – 2.0 mm	1.0 – 3.0 mm
Width	1.0 and 1.2 m	1.0 and 1.2 m	1.0 and 1.2 m
Length	5 – 30 m	10 – 30 m	15 – 25 m

Vinyl underlayment product features

	XPO	XPS
Type of foam	Closed-cell, extruded, non-crosslinked polyoefin foam (PE/PP)	Closed-cell, extruded, non-crosslinked polystyrene foam (PS)
Compressive strength	200 – 500 kPa	200 – 500 kPa
Thickness	1.0 – 1.5 mm	1.0 and 1.5 mm
Width	1.0 and 1.2 m	1.0 – 1.2 m
Length	5 – 20 m	5 – 20 m

Further individualisation options upon request

Finishing

To make underlayment usable for various applications and requirements and to promote individualisation, we offer various refinement and finishing options.

- ▶ **PRINT:**
Individual, printed large-area patterns and logos
- ▶ **EMBOSSING:**
Individual appearance and feel through comprehensive embossing
- ▶ **FILM LAMINATION:**
Film lamination for foams
(e.g. anti-slip surface, moisture barrier)
- ▶ **CLICK SYSTEM:**
Visual improvement and installation support through click system on the panel edge

Quality and sustainability

- ▶ Excellent acoustic properties in terms of impact and radiated walking sound
- ▶ Compressive strength and durable for lasting performance
- ▶ Individual size, colour and refinement options
- ▶ 100 % recyclable, zero waste
- ▶ Light weight makes the product easy to move and install
- ▶ Resistant to moisture, mould and bacteria
- ▶ Resistant to solvents and chemicals*
- ▶ Low-emission and environmentally friendly
- ▶ Weight-efficient and resource friendly thanks to low density
- ▶ Resource-friendly thanks to use of recycled material
- ▶ Environmentally friendly thanks to production using green energy



100 %
recyclable

ISO 50001
ISO 9001

Energy-efficient
production

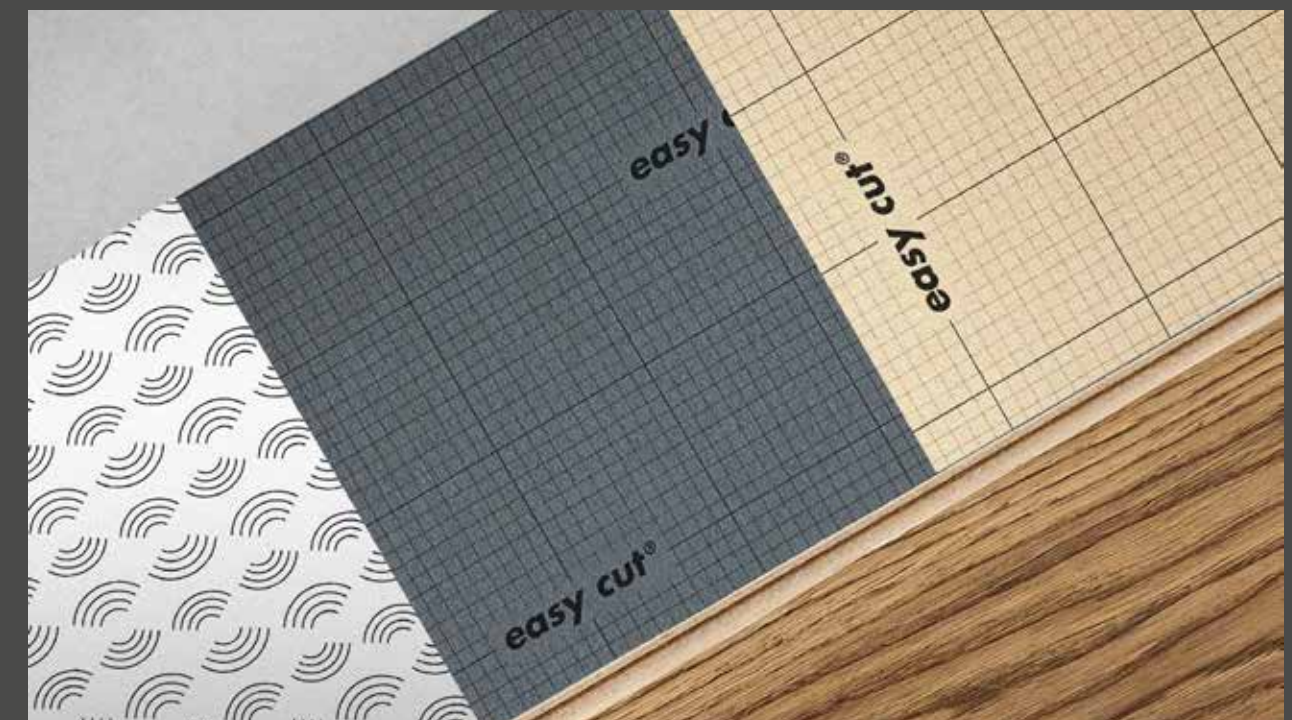
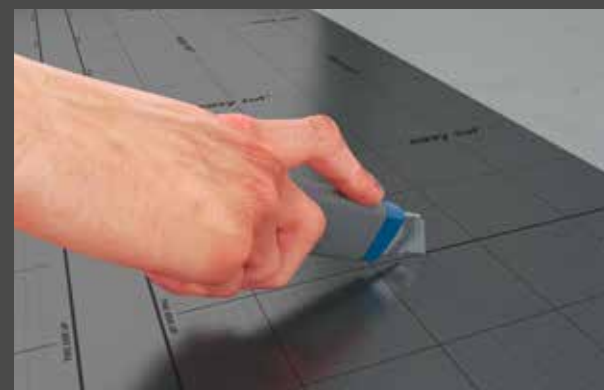
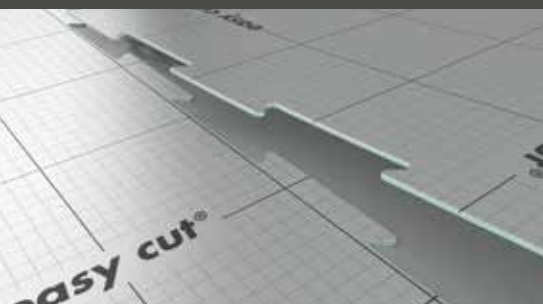


Harmless to
health



Made in
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*only applies to XPO

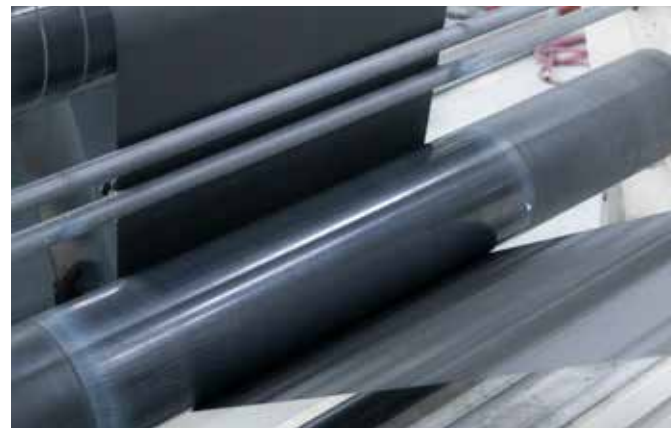


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Legal notice

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