

FLOORING UNDERLAYMENTS

for floating installation of laminate, parquet,
design and vinyl floor coverings



PROBASE flooring underlayments

Superior installation

The solid foundation for success

High quality underlay webs are the key factor to achieve functional and comfortable floor coverings. Primarily developed for floating installations, PROBASE flooring underlayments reduce walking sound and impact sound, control moisture and protect the coverings from mechanical damage.

Top products for specialists

Our close cooperation with customers and the continuous development and optimisation of our products make PROBASE your reliable partner. Benefit from our groundbreaking system solutions and impress your customers with safety, durability and ease of installation.

Top quality from Germany

When you opt for PROBASE, you choose "German Quality". Like all Proline products, our underlay webs are mainly manufactured in Germany. They meet current directives and requirements; they are subjected to our own in-house application tests and are also tested by independent bodies and test centres. Innovation, precision and solidity – that is "German Quality" from Proline.

Everything from a single source

We offer you all-round service for beautiful floors – from high quality floor profile systems and first-class underlays to practical accessories, such as installation kits from Proline. Perfectly compatible system components simplify the work for users and, at the same time, increase the quality of the finished product.

You can rely on it – with certainty

We know how important it is for users to be able to completely rely on our products on site. This applies in particular when it comes to general type approvals and compliance with various standards.

Always the right choice

PROBASE offers you a wide product portfolio to cater for individual customer wishes. You will find the perfect solution for every demand.

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Select the right underlay materials quickly and with certainty

Proline flooring underlayments meet the minimum or even increased requirements of the following reputable associations: European Producers of Laminate Flooring (EPLF) and the Multilayer Modular Flooring Association (MMFA).

Signed and sealed

Reliable, tested and certified quality

With PROBASE flooring underlayments, we offer you excellent product properties and added safety and durability. Independent test centres have confirmed this time and again. We guarantee you top quality, tailored to your needs, by conducting laboratory tests and application-orientated examinations and through our first-class know-how.

Safety – our most precious asset

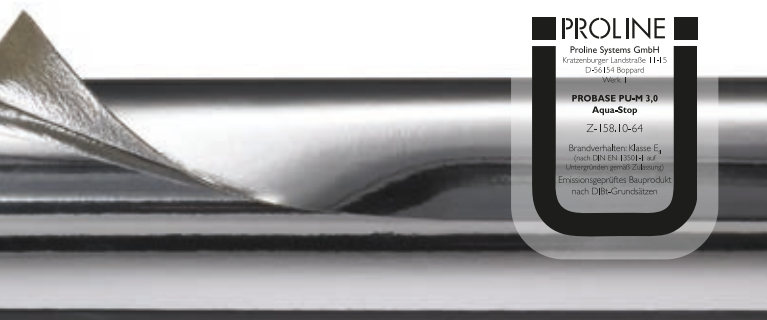
PROBASE underlayments not only meet our own high quality requirements. All of our products are also approved according to building regulations by the Deutsche Institut für Bautechnik (German Institute for Construction Engineering). General type approvals have been issued for underlays for laminate and parquet floors and for floor coverings for which there are no DIN standards or which vary substantially from them. One requirement for product approval involves the product passing an emission and fire test. A product may not emit any toxic or otherwise harmful substances.

The acid test

Any company that guarantees quality must be convinced of its products. We certainly are. Ultimately, we not only rely on tests carried out by independent material testing agencies or technical institutes. Before PROBASE products are launched on the market, they are subjected to strict checks during inhouse-developed tests.



We also use these checks to continually develop our products. After all, we are guided by what the customer requests in practical everyday business.



Look for the Ü sign

As you know, only approved underlays may be used in "rest areas"* in Germany since 1st January 2012. Any violation of this may result in your client refusing to accept your work. With Proline you are on the safe side in this respect. Look for the Ü sign! We guarantee that all our products bearing this sign meet the current strict regulations regarding health and safety and fire hazards in buildings.

* According to Model Building Regulation (§ 2, Paragraph 2), living and working spaces are rooms which are intended or suitable for people to occupy for longer than a temporary basis, for example, living rooms, bedrooms, home offices, offices and salesrooms.



Everything works with ease

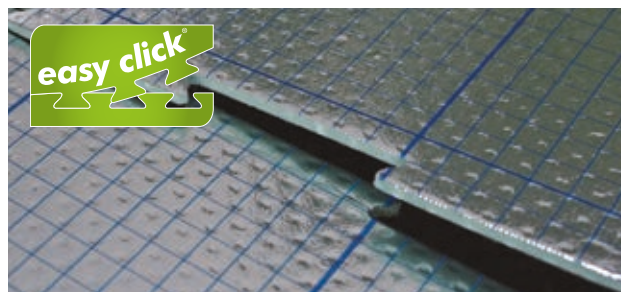
The intuitive installation systems from Proline

Flooring underlayments should cover the entire surface of the substrate and have no overlaps or gaps. Improper installation can lead, for example, to excessive stress on the board joints. The easy-lay, easy-click and easy-cut systems let you install the underlayments properly, cleanly and efficiently.



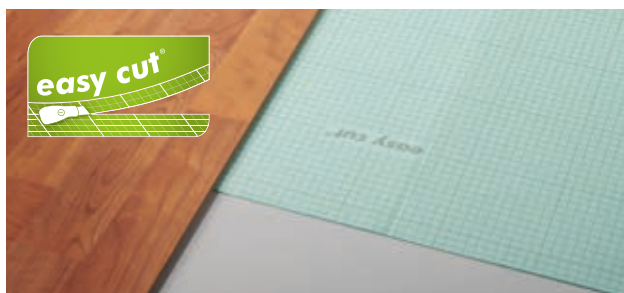
easy-lay

easy-lay is the name of an easy to lay, flat folding board with a small number of butt joints to glue. With easy-lay, Proline offers you underlays that are as easy to lay because they are easy to handle. Compared with rolls of products, easy-lay products are practical to store and simple to transport.



easy-click

easy-click folding boards are very easy to connect and mask and they reliably prevent sound bridges and hollow layers. Products equipped with easy-click perforations connect underlay boards quickly and easily. They avoid projecting edges that present a trip hazard. Nothing can move or slide about with the click system.



easy-cut

easy-cut rolls or folding boards are equipped with an imprinted grid pattern. This makes it easier to cut the product exactly to size. The imprinted grid pattern on easy-cut is perfect for maintaining a straight line. This makes it easier for you to measure, adapt, cut-off and cut-out, which in turn means that you hardly need any cutting aids. Cutting around doors, chimneys and walls takes no time at all. It also helps to avoid sound bridges and hollow layers effectively. The underlay then prolongs the service life of the entire floor system.



Overlapping edge

Products with an integrated vapour barrier function, also called combined underlays, are partly equipped with an overlapping edge. The PE film used is a few centimetres wider. The extended edges are laid over the neighbouring strip and glued. The other type of underlays (without overlapping zones) is simply masked in the joint area by self-adhesive, vapour-tight adhesive tape. This is the quick and easy way to produce continuous moisture protection.

Made-to-order installation

The best choice at first sight

The two associations, EPLF and MMFA, have defined fixed requirements for floating installation of laminate and vinyl floor covering. You can use these requirements to compare the properties of underlay webs with each other. Based on these values, we have classified our PROBASE flooring underlayments so that you can quickly and reliably find the best PROBASE flooring underlayment for your requirements. We have provided a clear summary of the most important criteria below to help you.

Protecting the floor



Compensating unevenness (PC)

To ensure that the floor is durable, flooring underlayments must be able to compensate for small amounts of unevenness, for example, from screed particles. The point compensation ability (PC) indicates in millimetres how well an flooring underlayment is suited for doing so. The higher the value, the better the compensation.

To provide mechanical protection for the floor, large areas of unevenness and cavities must first be compensated for using suitable measures, such as levelling compound.



Moisture protection (SD)

In the case of mineral subfloors such as concrete and screed, it is possible that residual moisture may work its way up and damage the floor. Suitable underlays can hinder this diffusion of water vapour and protect the floor. The resistance to water vapour diffusion (SD) indicates the degree to which the flooring underlayment lets moisture through. The higher the value, the lower the permeation.



Protection against loads (DL, CC, CS)

Floors must withstand a variety of loads every day. The same is also true for flooring underlayments. The three load values indicate which loads the underlayments can withstand.

DL refers to a **dynamic load** from sources such as people walking or rolling office chairs.



CC refers to a **continuous load** from static loads such as furniture.



CS refers to a **temporary load** from other loads.

The higher the values, the higher the load capacity of the material.



Protection from falling objects (RLB)

Laminate floor covering faces the risk of having its surface damaged by falling objects. For this reason, flooring underlayments should be capable of absorbing high forces acting over a short period. The impact load (RLB) indicates the fall height at which the flooring underlayment can contribute to the floor's protection. The higher the value, the better the protection.

Improving living comfort



Impact sound reduction (IS)

Impact sound refers to the noise created by walking which is transmitted into a room beneath the floor. The impact sound insulation (IS) indicates how well flooring underlayments can reduce such noise transmission. The higher the value, the quieter the steps sound in the room beneath the floor.



Radiated walking sound reduction (RWS)

Walking sound refers to the noise created by walking which is heard in the same room as the floor. Suitable flooring underlayments can provide a perceptible reduction in noise and thereby contribute to quiet living conditions. The higher the reduction in walking sound (RWS), the better.



Thermal insulation (R_i)

In the case of unheated or non-insulated subfloors, flooring underlayments with good thermal insulation can increase the floor temperature, for example, on the ground floor, in a basement or in a garage. This makes it more comfortable to walk on the floor barefoot. The ability of an underlayment to insulate heat is indicated by the heat transfer resistance (R_i). The higher the resistance, the better the insulating properties of the material.



Underfloor heating (R_{λ})

Laminate, parquet, design and vinyl floor coverings are generally suited for use with an underfloor heating system. For the heating to work efficiently, the flooring underlayment must not excessively hinder the heat transfer. This means that the flooring underlayment should have the lowest possible thermal insulation so that the total resistance from flooring underlayment and floor covering ($R_{\lambda,B}$) is as small as possible.



The technical information from the EPLF and MMFA associations can be found online at:

www.eplf.de
www.mmfa.eu

Requirements according to EPLF

The following table presents the minimum and raised requirements developed by the Association of European Producers of Laminate Flooring (EPLF) for floating installation of laminate.

Protecting the floor		Minimum requirements	Increased requirements
	Compensating unevenness (PC)	$\geq 0.5 \text{ mm}$	
	Moisture protection (SD)	$\geq 75 \text{ m}$	
Protection against loads			
	Dynamic compressive resistance (DL₂₅)	$\geq 10,000 \text{ Cycles}$	$\geq 100,000 \text{ Cycles}$
	Continuous compressive resistance (CC)	$\geq 2 \text{ kPa}^*$	$\geq 20 \text{ kPa}^*$
	Temporary compressive resistance (CS)	$\geq 10 \text{ kPa}^*$	$\geq 60 \text{ kPa}^*$
	Protection from falling objects (RLB)**	$\geq 50 \text{ cm}$	$\geq 120 \text{ cm}$
Improving living comfort			
	Impact sound reduction (IS_{Lam})**	$\geq 14 \text{ dB}$	$\geq 18 \text{ dB}$
	Radiated walking sound reduction (RWS)**	Value in development	Value in development
	Thermal insulation (R_t)	$\geq 0.075 \text{ m}^2\text{K/W}$	
	Suitable for underfloor heating (R_{uB})**	$\leq 0.15 \text{ m}^2\text{K/W}$	

Note about Proline: In practice, the listed requirements are also used for floating installation of three-tiered parquet.

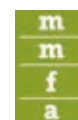
* 10 kPa ~ approximately 1 t/m²

** Values refer to the entire floor system

Requirements according to MMFA

The following table presents the minimum and raised requirements developed by the MMFA for floating installation of multilayer modular design and vinyl floor covering. The association divides design and vinyl floor covering into two classes. The requirements of the first class (category wood) are identical to those of the EPLF. For the second class (category polymer), the values for continuous and temporary compressive resistance are higher.

Proline is a member of the



Multilayer Modular Flooring Association

		Class 1 (category wood)		Class 2 (category polymer)	
Protecting the floor		Minimum requirements	Increased requirements	Minimum requirements	Increased requirements
	Compensating unevenness (PC)	≥ 0.5 mm		≥ 0.5 mm	
	Moisture protection (SD)	≥ 75 m		≥ 75 m	
Protection against loads					
	Dynamic compressive resistance DL₂₅ (class 1) DL₇₅ (class 2)	≥ 10,000 Cycles	≥ 100,000 Cycles	≥ 10,000 Cycles	≥ 100,000 Cycles
	Continuous compressive resistance (CC)	≥ 2 kPa*	≥ 20 kPa*	≥ 10 kPa*	≥ 35 kPa*
	Temporary compressive resistance (CS)	≥ 10 kPa*	≥ 60 kPa*	≥ 200 kPa*	≥ 400 kPa*
Improving living comfort					
	Impact sound reduction IS_{HDF} (class 1) IS_{LVT} (class 2)	≥ 14 dB	≥ 18 dB	≥ 10 dB	≥ 18 dB
	Thermal insulation (R_i)	≥ 0.075 m²K/W		≥ 0.075 m²K/W	
	Suitable for underfloor heating (R_{λ,B})**	≤ 0.15 m²K/W		≤ 0.15 m²K/W	

* 10 kPa ~ approximately 1 t/m²

** Values refer to the entire floor system



More information can be found
online at: www.mmfa.eu

Product properties

PROBASE flooring underlayments

The right flooring underlayment for every purpose: The following provides you with an overview of our PROBASE underlayments, from which you can see the advantages and possible applications. All of the underlayments below from Proline meet the minimum requirements from the EPLF and MMFA. For exact values, please refer to the tables starting on page 12.

PROBASE Norm

For floating installation of laminate, parquet, design and vinyl floor covering with HDF core (category wood)

PROBASE PE

Flooring underlayments made of non-cross-linked polyethylene foam.

PROBASE PE strong 2.2 Aqua-Stop PE overlap p. 12

Has a PE vapour barrier and self-adhesive overlapping zone for reducing walking sound and impact sound. Also used for higher requirements, particularly suited for underfloor heating.

PROBASE PE maxi 2.0 p. 12

For reducing walking sound and impact sound. Also used for higher requirements, particularly suited for underfloor heating

PROBASE EPS

Flooring underlayments made of expanded polystyrene foam with vapour barrier for reducing walking sound and impact sound.

PROBASE EPS 1.6 Aqua-Stop p. 13

Used in rooms with normal traffic and higher requirements, particularly suited for underfloor heating.

PROBASE XPS

Flooring underlayments made of extruded polystyrene foam with special properties.

PROBASE XPS eco 1.6 p. 13

For reducing walking sound and impact sound. Very good at protecting the floor covering against loads and suited very well for underfloor heating. Used in rooms having normal traffic with higher requirements.

PROBASE XPS eco 5.0 p. 13

Has higher reduction in walking sound and impact sound for energy uncoupling of subfloors which feel cold.

PROBASE XPS fold 2.2 p. 14

Very good at reducing walking sound and impact sound and provides excellent protection against loads.

PROBASE XPS fold click 3.0 Aqua-Stop p. 14

Excellent at reducing impact sound and very good at reducing walking sound. Best at protecting the floor covering against falling objects and very good at compensating for unevenness at different points. Available with and without Aqua-Stop.

PROBASE XPS fold click 5.0 Aqua-Stop p. 15

Excellent at reducing impact sounds and very good at reducing walking sound for energy uncoupling of subfloors which feel cold. Excellent at protecting the floor covering against loads and falling objects. Best at compensating for unevenness at different points. Available with and without Aqua-Stop.



PROBASE Premium

For floating installation of laminate, parquet and design and vinyl floor covering with HDF core (category wood)

PROBASE PU-M

Flooring underlayment made of a polyurethane/mineral mixture.

PROBASE PU-M 1.8 Aqua-Stop p. 16

Good at reducing impact sound and very good at reducing walking sound. Very good at protecting the floor covering against loads and ideally suited for underfloor heating. Available with and without Aqua-Stop.

PROBASE PU-M 3.0 Aqua-Stop p. 17

Good at reducing impact sound and very good at reducing walking sound. Very good at protecting the floor covering against loads and ideally suited for underfloor heating. Available with and without Aqua-Stop.

PROBASE Nature

For floating installation of laminate, parquet and design and vinyl floor covering with HDF core (category wood)

PROBASE Cork

Environmentally friendly flooring underlayments made of natural, renewable cork.

PROBASE Cork 2.0 p. 18

Good at reducing impact sound. Very good at protecting against loads and well-suited for underfloor heating.

PROBASE HWF

Flooring underlayments made of ecological and natural soft wood fibreboards.

PROBASE HWF 5.0 p. 18

Very good at reducing impact sound, very good at protecting against loads and good at compensating for unevenness at different points.

PROBASE Design

For floating installation of design and vinyl floor covering without HDF core (category polymer)

PROBASE LVT

PROBASE LVT PE+ 1.0 with grip surface p. 19

Underlay web made of fine-pored, closed-cell polyolefin foam for designer / vinyl floors with click connections. Very high pressure resistance and very good impact sound insulation. Available with and without grip surface.

PROBASE LVT PU-M 1.5 p. 19

High-tech acoustic mat made of polyurethane/minerals with outstanding reduction in impact sound. Outstanding protection for the floor covering against loads and best suitability for underfloor heating.

PROBASE LVT PS+ fold 1.5 Aqua-Stop p. 19

Has vapour barrier and integrated GripTec® surface, for design/vinyl floor covering with the click connection system. Very good at reducing impact sound. Compensates for unevenness at different points, provides excellent protection of the floor covering against loads and is well-suited for underfloor heating.

The requirements of EPLF and MMFA class I (category wood) apply














PROBASE Norm

For floating installation of laminate, parquet, design and vinyl floor covering with HDF core

PROBASE PE strong 2.0
Item No. 93630

PROBASE PE strong 2.2 Aqua-Stop PE overlap
Item No. 93631

PROBASE PE maxi 2.0
Item No. 93632

			
Protecting the floor			
 Compensating unevenness (PC)	●●●○○ ≤ 1.4 mm	●●●○○ ≤ 1.4 mm	●●●○○ ≤ 1.3 mm
 Moisture protection (SD)	○○○○○	●●●●● ≥ 100 m	○○○○○
Protection against loads	●●●○○	●●●○○	●●●○○
 Dynamic compressive resistance (DL₂₅)	≥ 50,000 Cycles	≥ 50,000 Cycles	≥ 100,000 Cycles
 Continuous compressive resistance (CC)	ca. 5 kPa	ca. 5 kPa	ca. 10 kPa
 Temporary compressive resistance (CS)	≥ 40 kPa	≥ 40 kPa	≥ 60 kPa
 Protection from falling objects (RLB)	●●●○○ ≥ 120 cm	●●●○○ ≥ 120 cm	●●●○○ ≥ 120 cm
Improving living comfort			
 Impact sound reduction (IS_{Lam})	●●●○○ ≤ 19 dB	●●●○○ ≤ 19 dB	●●●○○ ≤ 19 dB
 Radiated walking sound reduction (RWS)	●●○○○ ≤ 7 % internal	●●●○○ ≤ 15 % internal	●●●○○ ≤ 20 % internal
 Thermal insulation (R_i)	○○○○○	○○○○○	○○○○○
 Suitable for underfloor heating (R_i)	●●●○○ ~ 0.038 m²K/W	●●●○○ ~ 0.038 m²K/W	●●●○○ ~ 0.038 m²K/W

Value printed in bold = meets the increased requirement of the EPLF and the MMFA, class I with HDF core (category wood)

PROBASE EPS 1.6 Aqua-Stop


Item No. 93613 / 93614

PROBASE XPS eco 1.6

Item No. 93612

PROBASE XPS eco 5.0

Item No. 93627

		
●●●●○ ≤ 1.0 mm	●●●●○ ≤ 0.5 mm	●●●●○ ≤ 2.0 mm
●●●●● ≥ 100 m	○○○○○	○○○○○
●●●●○	●●●●○	●●●●○
≥ 100,000 Cycles	≥ 100,000 Cycles	≥ 100,000 Cycles
≥ 5 kPa	≥ 5 kPa	≥ 5 kPa
≥ 60 kPa	≥ 60 kPa	≥ 60 kPa
●●●●○ ≥ 90 cm	●●●●○ ≥ 50 cm	●●●●○ ≥ 120 cm

●●●●○ ≤ 20 dB	●●●●○ ≤ 17 dB	●●●●● ≤ 22 dB
●●●●○ ≤ 10 % internal	●●●●○ ≤ 10 % internal	●●●●○ ≤ 15 % internal
○○○○○	○○○○○	●●●●○ ~ 0.14 m²K/W
●●●●○ ~ 0.06 m²K/W	●●●●○ ~ 0.05 m²K/W	○○○○○

Value printed in bold = meets the increased requirement of the EPLF and the MMFA, class I with HDF core (category wood)

The requirements of EPLF and MMFA class I (category wood) apply



















PROBASE Norm

For floating installation of laminate, parquet, design and vinyl floor covering with HDF core

PROBASE XPS fold 2.2
Item No. 93622

PROBASE XPS fold click 3.0
Item No. 93662

PROBASE XPS fold click 3.0 Aqua-Stop
Item No. 93663

	 	  	  
Protecting the floor			
 Compensating unevenness (PC)	●●●○○ ≤ 1.0 mm	●●●○○ ≤ 2.0 mm	●●●○○ ≤ 2.0 mm
 Moisture protection (SD)	○○○○○	○○○○○	●●●●● ≥ 100 m
Protection against loads	●●●●●	●●●●●	●●●●●
 Dynamic compressive resistance (DL₂₅)	≥ 250,000 Cycles	≥ 250,000 Cycles	≥ 250,000 Cycles
 Continuous compressive resistance (CC)	≥ 25 kPa	≥ 25 kPa	≥ 25 kPa
 Temporary compressive resistance (CS)	≥ 90 kPa	≥ 90 kPa	≥ 90 kPa
 Protection from falling objects (RLB)	●●●○○ ≥ 120 cm	●●●●● ≥ 140 cm	●●●●● ≥ 140 cm
Improving living comfort			
 Impact sound reduction (IS_{Lam})	●●●○○ ≤ 20 dB	●●●●● ≤ 22 dB	●●●●● ≤ 22 dB
 Radiated walking sound reduction (RWS)	●●●○○ ≤ 20 % internal	●●●○○ ≤ 20 % internal	●●●○○ ≤ 20 % internal
 Thermal insulation (R_i)	○○○○○	●●●○○ ~ 0.10 m²K/W	●●●○○ ~ 0.10 m²K/W
 Suitable for underfloor heating (R_i)	●●○○○ ~ 0.07 m²K/W	○○○○○	○○○○○

Value printed in bold = meets the increased requirement of the EPLF and the MMFA, class I with HDF core (category wood)

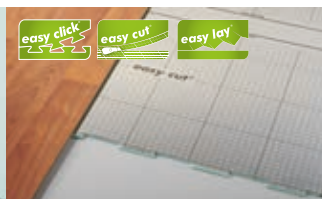
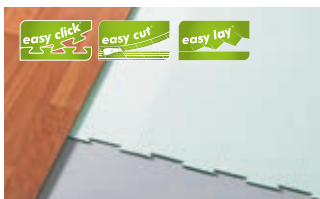
PROBASE XPS fold click 5.0

Item No. 93624

PROBASE XPS fold click 5.0

Aqua-Stop

Item No. 93628



●●●●● ≤ 4.0 mm

●●●●● ≤ 4.0 mm

○○○○○

●●●●● ≥ 100 m

●●●●●

●●●●●

≥ 250,000 Cycles

≥ 250,000 Cycles

≥ 25 kPa

≥ 25 kPa

≥ 90 kPa

≥ 90 kPa

●●●●● ≥ 140 cm

●●●●● ≥ 140 cm

●●●●● ≤ 22 dB

●●●●● ≤ 22 dB

●●●●○ ≤ 20 % internal

●●●●○ ≤ 20 % internal

●●●●○ ~ 0.15 m²K/W

●●●●○ ~ 0.15 m²K/W

○○○○○

○○○○○

Value printed in bold = meets the increased requirement of the EPLF and the MMFA, class I with HDF core (category wood)

The requirements of EPLF and MMFA class I (category wood) apply

PROBASE Premium

For floating installation of laminate, parquet, design and vinyl floor covering with HDF core

PROBASE PU-M 1.8

Item No. 93645














PROBASE PU-M 1.8

Aqua-Stop

Item No. 93615 / 93618

PROBASE PU-M 3.0

Item No. 93646

	 www.blauer-engel.de/uz156	 www.blauer-engel.de/uz156	 www.blauer-engel.de/uz156
Protecting the floor			
 Compensating unevenness (PC)	●●○○○ ≤ 0.7 mm	●●○○○ ≤ 0.7 mm	●●●○○ ≤ 1.5 mm
 Moisture protection (SD)	○○○○○	●●●●● > 75 m	○○○○○
Protection against loads	●●●●●	●●●●●	●●●●●
 Dynamic compressive resistance (DL₂₅)	≥ 2,000,000 Cycles	≥ 2,000,000 Cycles	≥ 2,000,000 Cycles
 Continuous compressive resistance (CC)	≥ 50 kPa	≥ 50 kPa	≥ 30 kPa
 Temporary compressive resistance (CS)	≥ 250 kPa	≥ 250 kPa	≥ 90 kPa
 Protection from falling objects (RLB)	●●○○○ ≥ 60 cm	●●○○○ ≥ 60 cm	●●●○○ ≥ 90 cm
Improving living comfort			
 Impact sound reduction (IS_{Lam})	●●●○○ ≤ 18 dB	●●●○○ ≤ 18 dB	●●●●○ ≤ 19 dB
 Radiated walking sound reduction (RWS)	●●●○○ ≤ 24 % internal	●●●○○ ≤ 24 % internal	●●●●● ≤ 30 % internal
 Thermal insulation (R_i)	○○○○○	○○○○○	○○○○○
 Suitable for underfloor heating (R_f)	●●●●● ~ 0.010 m²K/W	●●●●● ~ 0.010 m²K/W	●●●●● ~ 0.010 m²K/W

Value printed in bold = meets the increased requirement of the EPLF and the MMFA, class I with HDF core (category wood)

PROBASE PU-M 3.0 Aqua-Stop

Item No. 93616 / 93619



●●●●○ ≤ 1.5 mm

●●●●● > 75 m

●●●●●

≥ **2,000,000 Cycles**

≥ **30 kPa**

≥ **90 kPa**

●●●●○ ≥ 90 cm

●●●●○ ≤ **19 dB**

●●●●● ≤ 30 % internal

○○○○○

●●●●● ~ 0.010 m²K/W

Value printed in bold = meets the increased requirement of the EPLF and the MMFA, class I with HDF core (category wood)

The requirements of EPLF and MMFA class I (category wood) apply

PROBASE Nature

For floating installation of laminate, parquet, design and vinyl floor covering with HDF core

PROBASE Cork 2.0
Item No. 93655 / 93607

PROBASE HWF 5,0
Art.Nr. 93603



Protecting the floor		
	Compensating unevenness (PC)	<div> <div>●●○○○</div> <div>≤ 0.5 mm</div> </div> <div> <div>●●●●○</div> <div>≤ 2.0 mm</div> </div>
	Moisture protection (SD)	<div> <div>○○○○○</div> </div> <div> <div>○○○○○</div> </div>
	Protection against loads	<div> <div>●●●●○</div> </div> <div> <div>●●●●○</div> </div>
	Dynamic compressive resistance (DL₂₅)	<div> <div>≥ 100,000 Cycles</div> </div> <div> <div>≥ 150,000 Cycles</div> </div>
	Continuous compressive resistance (CC)	<div> <div>≥ 25 kPa</div> </div> <div> <div>≥ 50 kPa</div> </div>
	Temporary compressive resistance (CS)	<div> <div>≥ 90 kPa</div> </div> <div> <div>≥ 150 kPa</div> </div>
	Protection from falling objects (RLB)	<div> <div>●●○○○</div> <div>≥ 50 cm</div> </div> <div> <div>●●●●○</div> <div>≥ 80 cm</div> </div>

Improving living comfort		
	Impact sound reduction (IS_{Lam})	<div> <div>●●●○○</div> <div>≤ 17 dB</div> </div> <div> <div>●●●●○</div> <div>≤ 19 dB</div> </div>
	Radiated walking sound reduction (RWS)	<div> <div>●○○○○</div> <div>≤ 3 % internal</div> </div> <div> <div>●○○○○</div> <div>≤ 3 % internal</div> </div>
	Thermal insulation (R_i)	<div> <div>○○○○○</div> </div> <div> <div>●●○○○</div> <div>~ 0.071 m²K/W</div> </div>
	Suitable for underfloor heating (R_i)	<div> <div>●●●●○</div> <div>~ 0.042 m²K/W</div> </div> <div> <div>○○○○○</div> </div>

Value printed in bold = meets the increased requirement of the EPLF and the MMFA, class I with HDF core (category wood)

The requirements of MMFA class II (category polymer) apply












PROBASE Design

For floating installation of design and vinyl floor covering without HDF core

PROBASE LVT PE+ 1.0
without/with grip surface
Item No. 93640 / 93641

PROBASE LVT PU-M 1.5
Item No. 93670

PROBASE LVT PS+ fold 1.5
Aqua-Stop
Item No. 93642

	  		
Protecting the floor			
 Compensating unevenness (PC)	●●●○○ ≤ 0.5 mm	●●●○○ ≤ 0.5 mm	●●●○○ ≤ 1.0 mm
 Moisture protection (SD)	○○○○○ Item No. 93640	○○○○○	●●●●● ≥ 100 m
	●●●●● > 75 m Item No. 93641		
Protection against loads	●●●●○	●●●●●	●●●●●
 Dynamic compressive resistance (DL₇₅)	≥ 200,000 Cycles	≥ 2,000,000 Cycles	≥ 250,000 Cycles
 Continuous compressive resistance (CC)	≥ 30 kPa	≥ 80 kPa	≥ 35 kPa
 Temporary compressive resistance (CS)	≥ 500 kPa	≥ 400 kPa	≥ 500 kPa
Improving living comfort			
 Impact sound reduction (IS_{LVT})	●●●●○ ≤ 19 dB	●●●○○ ≤ 15 dB	●●●●○ ≤ 17 dB
 Thermal insulation (R_i)	○○○○○	○○○○○	○○○○○
 Suitable for underfloor heating (R_i)	●●●●● ~ 0.02 m²K/W	●●●●● ~ 0.01 m²K/W	●●●●○ ~ 0.04 m²K/W

Value printed in bold = meets the increased requirement of the MMFA, class 2 without HDF core (category polymer)

PROBASE Permanent bonding

For permanent bonding of parquet, design and vinyl floor

PROBASE PU-Cork 2.0

Item No. 93637



Protecting the floor		
	Compensating unevenness (PC)	●●○○○ ≤ 0.5 mm
	Moisture protection (SD)	○○○○○
	Protection against loads	●●●○○
	Protection from falling objects (RLB)	●●●○○
Improving living comfort		
	Impact sound reduction (IS)	●●●○○ ≤ 17 dB
	Radiated walking sound reduction (RWS)	●●●○○
	Thermal insulation (R_t)	○○○○○
	Suitable for underfloor heating (R_h)	●●●●● ~ 0.026 m²K/W

Everything from A to Z: The right accessories from Proline.



PROBASE Aqua-Stop Alu/PET joint sealing tape SK

Joint sealing tape for vapour-tight bonding of joints and connections.



PROBASE Aqua-Stop PE basic



PROBASE Aqua-Stop PE strong

Membranes with a vapour density of SD > 100 m for protection against rising moisture.

The highest quality standard

Quality “Made in Germany”

When you choose Proline, you are choosing an experienced premium provider that fully stands behind its products. This not only applies to our excellent underlay webs, but also to the entire Proline product portfolio.



First class materials and excellent workmanship

We know how important the choice of materials and production processes are for the quality of our products. This is why we manufacture most of our products in Germany. We use machines that work according to processes that have been thoroughly tested to ensure that they meet our high standards. These factors are what make us able to manufacture reliable and durable products.

Extras – no problem with Proline

Our entire product portfolio is the result of research and development, many years of experience and our endeavours to meet customer requirements. The product range is so wide that it can cover the needs of almost any project. But sometimes there is just no way around a tailor-made solution. Even then, Proline is still the competent partner for you. Our claim is that we can always offer you the best solution in all situations – whether it is a major project or a custom design.

Our quality assurances

- **We manufacture using the latest state-of-the-art technology.**
- **We conduct quality controls during production and on the finished product.**
- **We optimise our products by performing material and stress tests during the development phase.**
- **Our production machines meet the latest technical requirements.**
- **Our products are tailored to the needs of our customers. For large projects we also produce special production series and custom solutions.**

From experts, for experts

Well advised through all channels

Professionals also need help and advice from time to time. If you choose Proline, you've come to the right place. A first overview is provided by our product data sheets and product brochures, which you can order by phone or download from the Internet. Product and application films as well as personal advice complete the Proline service.



Product range with system

Every Proline product is part of a chain and you can rely on every link in this chain: each of our products is exceptional in itself. But when used together, they truly exceed the sum of their parts and give excellent results. This naturally also applies to our flooring underlayments, which work perfectly with Proline floor profiles. You would like to know more about our floor profiles? Then request the brochure "Floor profile systems and floor profiles for laminate, parquet, LVT, resilient and textile floor coverings" or download the document as PDF file from our website.



Satisfied customers – for many years!

Proline offers you an enormous choice of design solutions in all product lines. This way, you can cater to all customer demands individually. Another advantage for trade, craftspeople, planners and clients: Proline products offer durability and save time – thanks to matching system components and the high quality of every single product. In turn, this makes for enthusiastic customers since floor and wall coverings combined with Proline products enjoy a much longer service life.

Technical Hotline

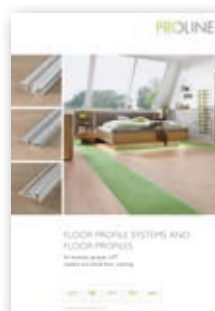
Our engineers have extensive product know-how to assist you. For major projects, for example, we offer consultation on site. But even on the Proline technical hotline you will always reach the right contact person to discuss technical queries in detail – just to be on the safe side.

Your direct line to Proline

Customer Support
+49 (0) 67 42/80 16-27
Technical Hotline
+49 (0) 67 42/80 16-85

List of product brochures

Our product line brochures provide you with a first guide to our wide range of products. Ask your dealer – or use our online download offer.



Topical brochures

In our topical brochures, you will find all information on our system and product groups.



Product brochures

Refer to our product brochures for information on individual products.



Image brochure

Our image brochure provides general information about Proline products and services.

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