



「
WE CARE
ABOUT
WHAT WE
TREAD ON
」

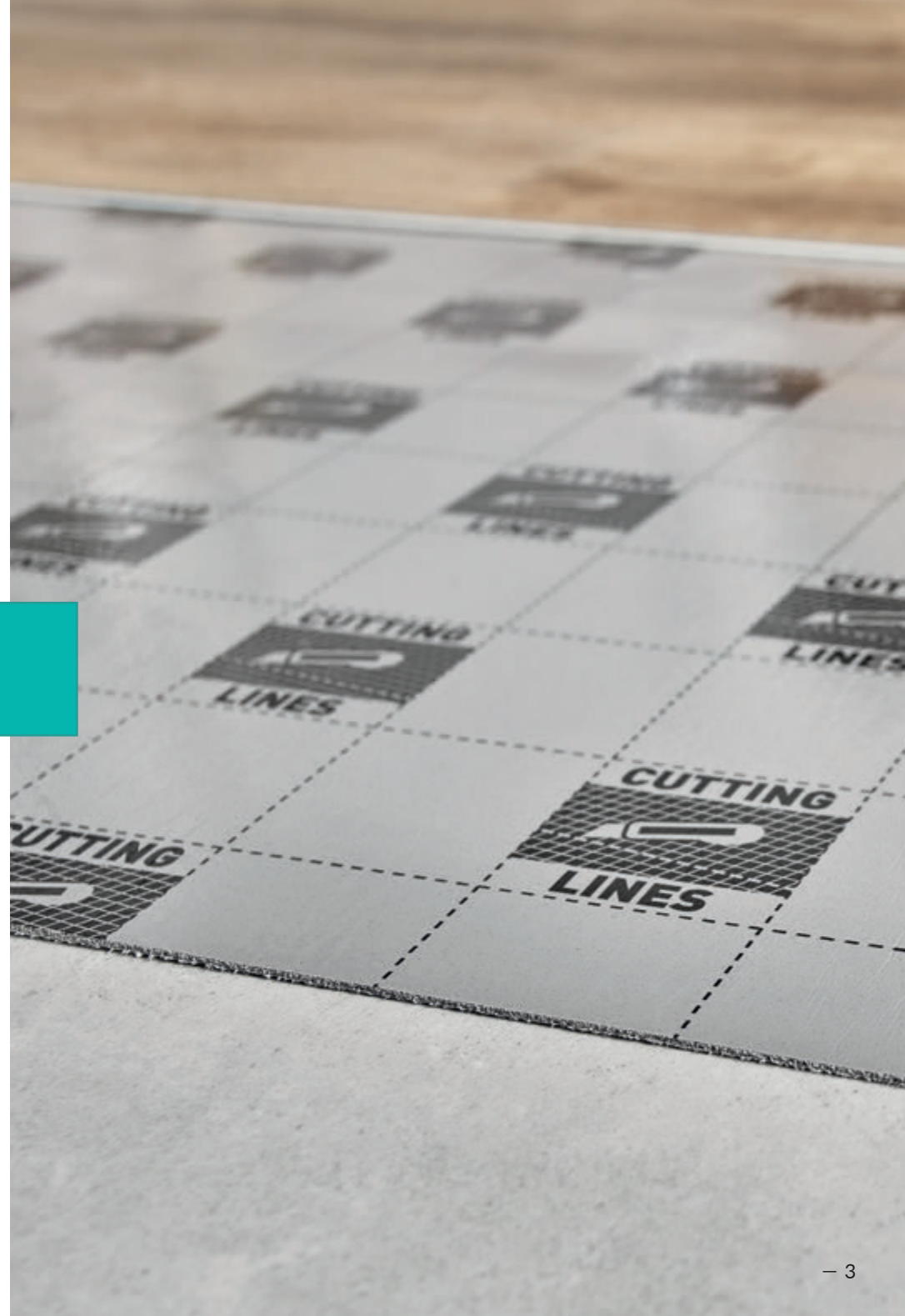
AFIRMAX

UNDERLAYS FOR VINYL, LAMINATE AND
ENGINEERED HARDWOOD FLOORING

「
**AFIRMAX.
CONNECTS
WHAT'S BEST**
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SMART CHOICE - SAVING TIME, SAVING MONEY



5 x FASTER INSTALLATION
the folding and roll forms are
the quickest installation choices



**DO NOT BUY AN ADDITIONAL
DAMP PROOF FOIL**
Afirmax underlays have an integrated
vapour-permeable layer to protect the
panels from moisture



QUICK CUTTING
printed cut lines mean less waste
and more precise cutting



LESS TAPE
in the case of the 3-in-1 products – the
vapour-permeable layer overlapped with
double-sided tape form a tight joint between
adjacent underlay strips – you do not need to
buy an additional vapour-permeable layer



LESS WASTE
the optimal packaging size (6 m²) means
a better fit for the size of the rooms with
fewer leftovers



WHY DOES FLOORING NEED AN UNDERLAY...

In the case of “floating floors”, the properties, parameters and comfort depend on the floorboard (panel) as well as the base on which we lay it.

By using an appropriate underlay we can create a type of “foundation” between the panels and the base. The underlay not only protects the flooring but also improves its performance parameters.

Even high-quality flooring can achieve its full potential only when the underlay functions properly as a part of the flooring system. The underlay plays an important role as it constitutes the base of a professionally installed floor, where it:

- compensates for any potential unevenness of the base, hence unburdening the snap-fit panel fasteners
- protects the flooring from everyday loads - like walking or the impact of falling objects, for example, as well as the constant load of heavy furniture
- provides effective insulation from moisture
- soundproofs the room – tones down the sound of steps and any noise from the room below
- reduces the costs of underfloor heating

A GOOD-QUALITY UNDERLAY EXTENDS THE SHELF LIFE OF FLOORING BY A FACTOR OF UP TO 8

AFIRMAX UNDERLAYS ARE COMPLIANT WITH THE **EN16354** NORM

ACCORDING
TO NORM
EN16354

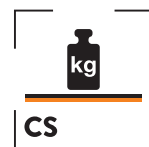


Any flooring underlay must comply with the regulations of European norm EN 16354. This document describes the requirements to be met by the product and specifies how it must be examined and tested. This makes it significantly easier to compare products from different manufacturers. The standard obliges producers to state six basic parameters on the packaging.

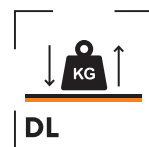
These include three parameters that represent flooring durability. These are:



PUNCTUAL CONFORMABILITY (PC) – the ability of the underlays to compensate for minor defects of the base, absorbing the unevenness and thus protecting panels from damage



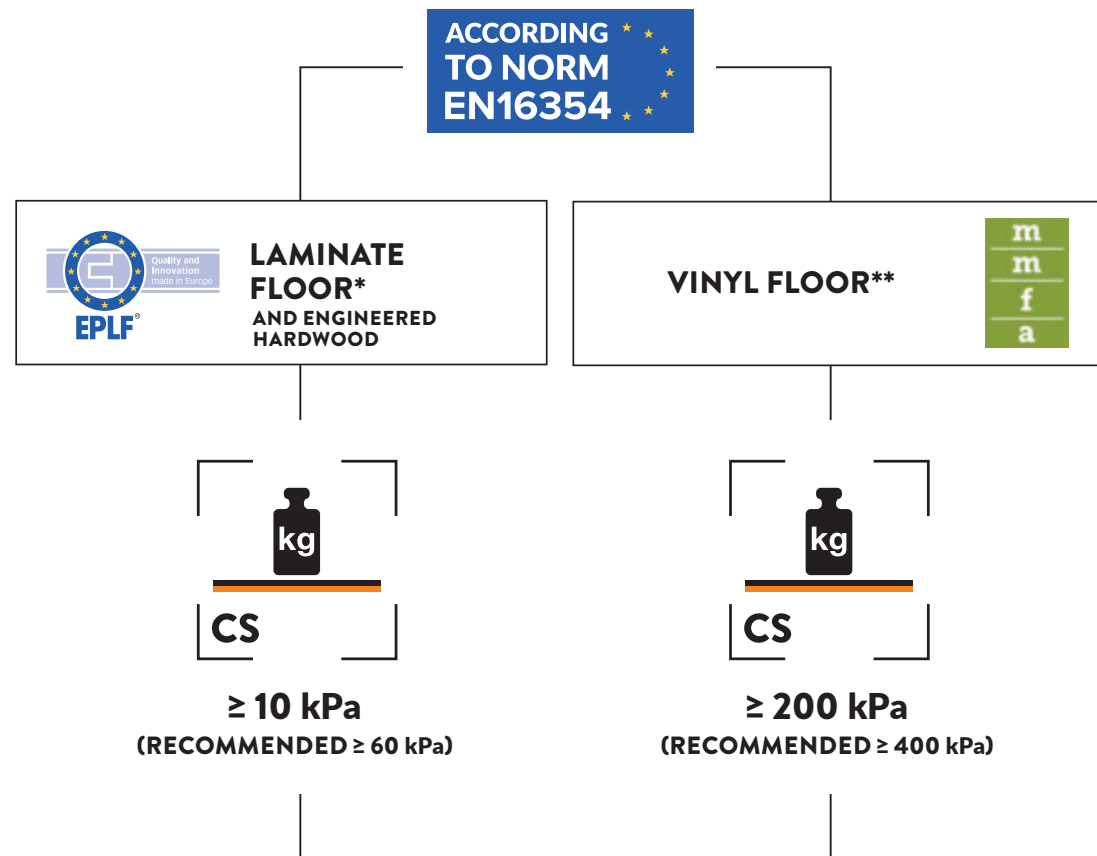
COMPRESSIVE STRENGTH (CS) – indicates the protection of the snap-fit panel fasteners



DYNAMIC LOAD (DL) – indicates the protection from sustained, varying pressure on the base (e.g. from walking or moving on a desk chair). Imagine that DL = 250 000 cycles is the equivalent of 68 guests walking through your room every day for the next 10 years without affecting the condition of your floor!



HOW CAN WE CHOOSE AN UNDERLAY?



*EPLF - European Producers of Laminate Flooring

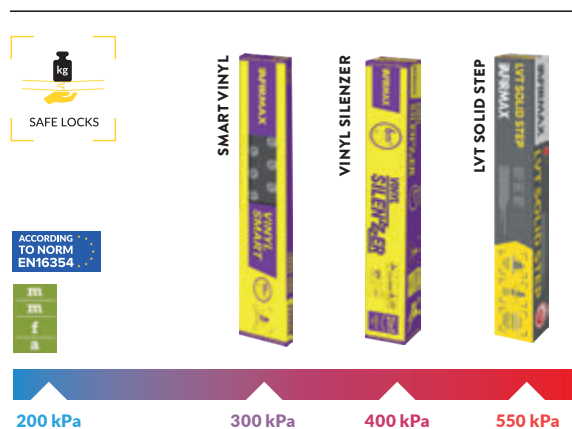
**MMFA - Multilayer Modular Flooring Association

CLICK VINYL FLOORING



The recommendations of the EN 16354 norm apply to all types of laminate flooring, and at present do not take into account the recommendations made by their manufacturers. According to the recommendations of MMFA (Multilayer Modular Flooring Association), the minimum compressive strength value for vinyl flooring should be $CS > 200$ kPa, but the recommended value is $CS > 400$ kPa.

As a supplier of vinyl flooring with a mineral core, we recommend using dedicated underlays. The specific construction of vinyl flooring, where panel thickness rarely exceeds 5 mm, requires precisely milled locks. This is the most important element to be protected, hence it requires a much higher pressure load parameter. Afimax offers a range of underlays dedicated to vinyl flooring.



FUNDAMENTAL REQUIREMENT FOR VINYL FLOORING

01



IMPORTANT REQUIREMENT FOR LAMINATE & ENGINEERED WOOD FLOORING

02



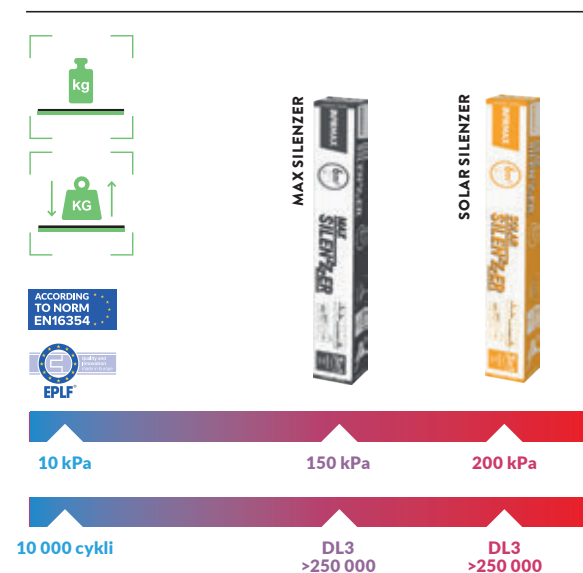
FLOOR DURABILITY FOR INTENSIVELY USED ROOMS



For rooms with laminate flooring exposed to heavy foot traffic – such as corridors, waiting rooms or rooms where heavy objects are often moved, e.g. a chair on castors – choose an underlay with the highest possible parameters for static (CS) and dynamic (DL) pressure. The higher the CS and DL values, the better the underlay protects the click fastening system, preventing gaps or fractures from occurring. For increased requirements, the CS value should be at least 60 kPa for layered boards and laminate panels, and 400 kPa for vinyl flooring.

In our laboratory we conduct a series of tests every day. One of them is the “chair test.” The underlay significantly increases the strength of the flooring and protects the locks, allowing the floor to pass the 25,000 chair rotation test. This demanding test corresponds to 10 years of normal floor use.

Using an appropriate underlay may extend the shelf life of the same floor by up to 8 times!



FLOOR HEATING

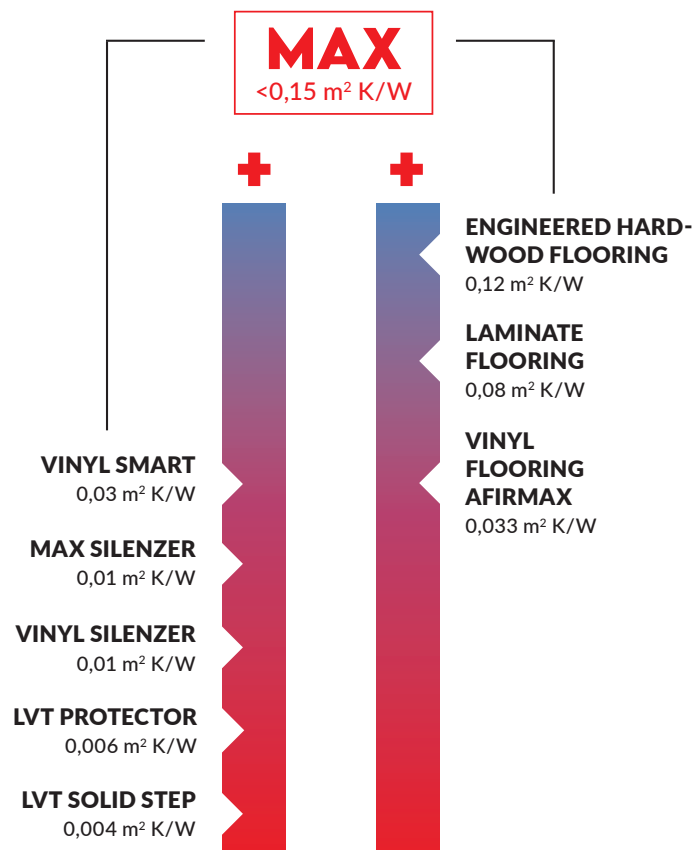


Choosing a floor type is a decision made at an early stage of the investment. The thermal insulation of the base should be considered when choosing the flooring.

A higher thermal insulation means faster room heating and lower heating bills.

It has been proved that the thermal insulation of the flooring system (floor covering + underlay) should not exceed $0.15 \text{ m}^2 \text{ K/W}$ (EN 16354 norm and DIN EN 1264 regulations).

To determine the overall thermal insulation of the flooring system, sum the thermal insulation values of the flooring and the underlay. For example, an 8 mm thick laminate flooring has a thermal insulation of approx. $0.08 \text{ m}^2 \text{ K/W}$. Such flooring requires an underlay with a thermal insulation below $0.07 \text{ m}^2 \text{ K/W}$. Obviously, lower thermal insulation means higher savings on your heating bill.



IMPORTANT REQUIREMENT
FOR LAMINATE,
ENGINEERED
WOOD & VINYL
FLOORING

03



IMPORTANT
REQUIREMENT
FOR LAMINATE
FLOORING

04



ACOUSTIC COMFORT



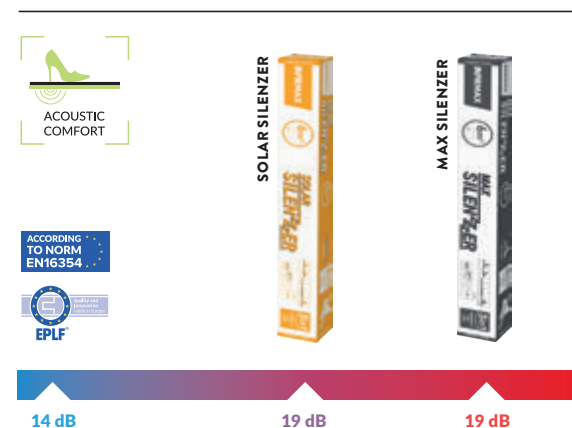
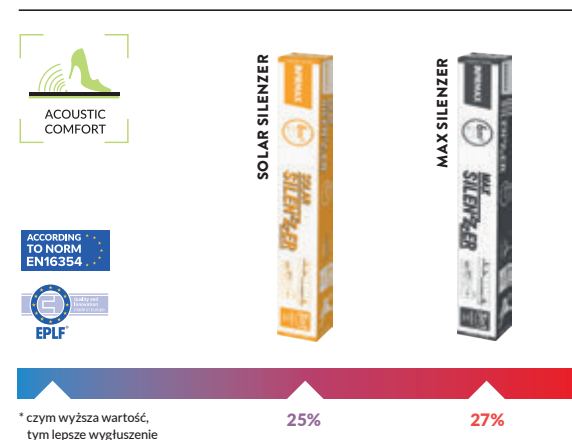
While it is not possible to completely eliminate floor noises, they can be reduced significantly with a suitable underlay.

Noise reduction refers to:

- Reflected Walking Sound (RWS) given as a percentage (%) – for laminate panels
- lowering the noise transfer to the lower rooms (Impact Sound – IS) given in decibels (dB)

WHAT DOES IT MEAN?

For the human ear, a 10 dB noise reduction corresponds to 50% soundproofing.



BARRIER AGAINST MOISTURE



When laying the flooring on mineral substrates (e.g. concrete, screed, etc.) it is mandatory to use a vapour barrier to protect the floor from detrimental effects caused by water. Laminate panels and boards are sensitive to the destructive effect of water, in extreme cases causing the deformation of the panels. Therefore, the higher the SD value, the better the floor is protected against moisture.

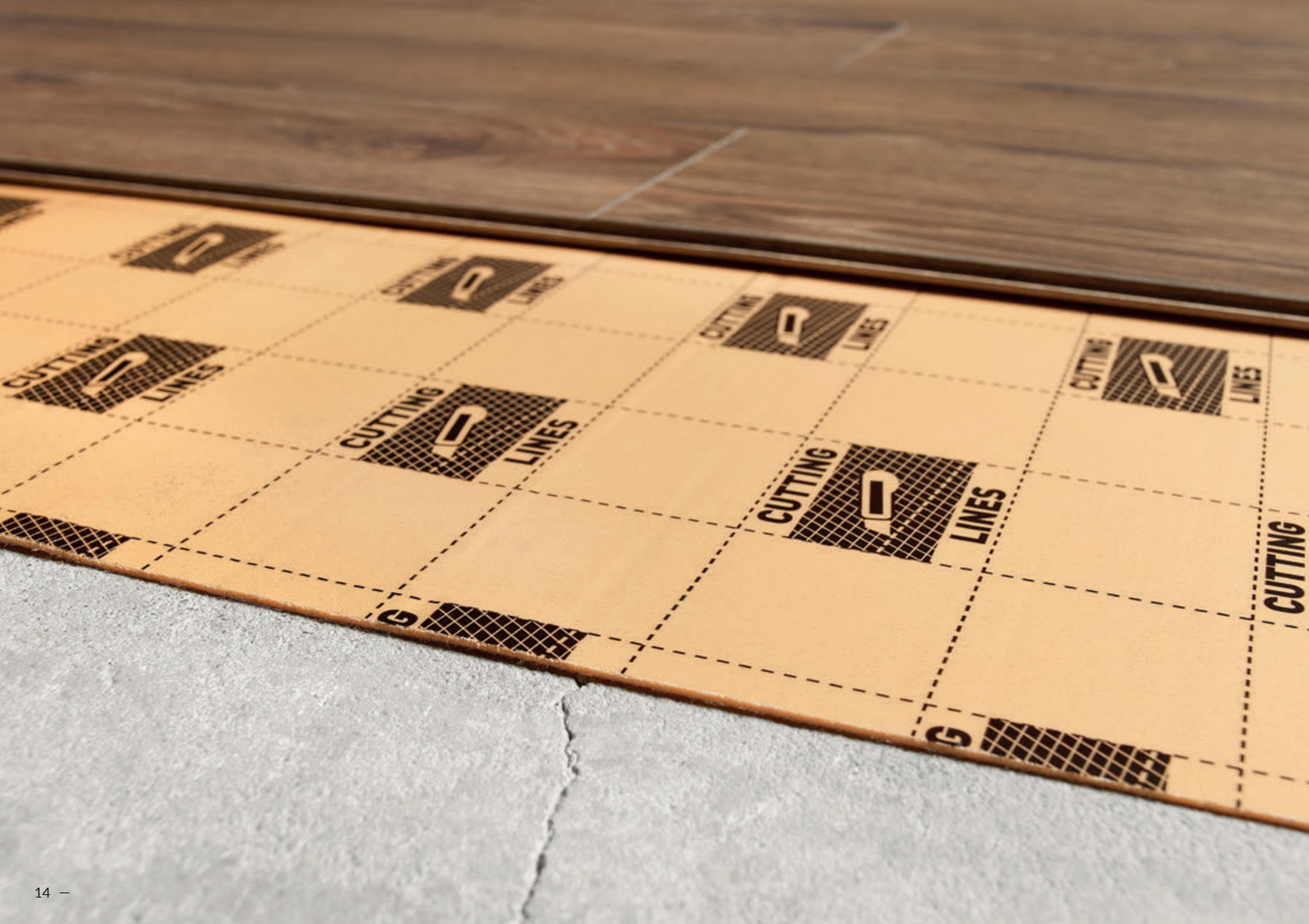
The test results confirm that an SD value of 75 m provides basic protection. The higher the SD value, the better the layer protects the laminate floor from damage caused by the capillary effect.



**FUNDAMENTAL
REQUIREMENT**
FOR LAMINATE
& ENGINEERED
WOOD
FLOORING

05





UNDERLAYS FOR LAMINATE FLOORING AND ENGINEERED HARDWOOD



SOLAR SILENCER

MAX SILENCER

Material	PUM	PUM
Thickness	1,5 mm	2,0 mm
Form	roll	roll



6 m² / 6 x 1 m

6 m² / 6 x 1 m

FLOOR HEATING



YES
up to 0,01 m² K/W

YES
up to 0,01 m² K/W

ACOUSTIC COMFORT



up to 19%

up to 19%



up to 25 dB

up to 27 dB

FLOOR DURABILITY



CS3
up to 200 kPa

CS3
up to 150 kPa



DL3
>250 000 cycles

DL3
>250 000 cycles



PC2
1,2 mm

PC2
1,6 mm

BARRIER AGAINST MOISTURE



>75 m

>75 m

EAN 5905167832356

EAN 5905167832363



UNDERLAYS FOR VINYL FLOORING



VINYL SILENZER

LVT SOLID STEP

VINYL SMART

Material	PUM	PUM	XPSHD
Thickness	1,3 mm	1,1 mm	1,0 mm
Form	roll	roll	smart



6 m² / 6 x 1 m

6 m² / 6 x 1 m

10 m² / 8,5 x 1,18 m

FLOOR HEATING



YES
up to 0,01 m² K/W

YES
up to 0,004 m² K/W

YES
up to 0,03 m² K/W

ACCOUSTIC COMFORT



up to 16%

up to 14%

up to 17%

FLOOR DURABILITY



CS3
up to 400 kPa

CS3
up to 550 kPa

CS3
up to 300 kPa



DL3
>400 000 cycles

DL3
>500 000 cycles

DL3
>400 000 cycles



PC2
1,0 mm

PC1
0,6 mm

PC1
0,6 mm

BARRIER AGAINST MOISTURE



>75 m

>75 m

>75 m

EAN 5905167832370

EAN 5905167831687

EAN 5905167836965

A SHORTCUT

LAMINAT FLOORING

SOLAR SILENZER

SAP EAN	154231201505000948 5905167832356	PUM	1,5	roll	6 / 6x1	48	288/576	19 008	PC2 1,2	CS3 (up to 200)	DL3 (>250 000)	RLB2 (≤1000)	up to 19	up to 25	up to 0,01	>75
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MAX SILENZER

SAP EAN	154231201505000949 5905167832363	PUM	2,0	roll	6 / 6x1	48	288/576	19 008	PC2 1,6	CS2 (up to 150)	DL3 (>250 000)	RLB2 (≤1000)	up to 19	up to 27	up to 0,01	>75
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VINYL FLOORING

VINYL SILENZER

SAP EAN	154231201505000950 5905167832370	PUM	1,3	roll	6 / 6x1	48	288/576	19 008	PC2 1,0	CS3 (up to 400)	DL3 (>400 000)	RLB2 (≤1000)	up to 16	-	up to 0,01	>75
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LVT SOLID STEP

SAP EAN	154231201505000897 5905167831687	PUM	1,1	roll	6 / 6x1	48	288/576	19 008	PC1 0,6	CS3 (up to 550)	DL3 (>500 000)	RLB2 (≤1000)	up to 14	-	up to 0,004	>75
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VINYL SMART

SAP EAN	154231201505001179 5905167836965	XPSHD	1,0	smart	10 / 8,5x1,18	42	420/840	26880	PC1 0,6	CS3 (up to 300)	DL3 (>400 000)	RLB3 (≤1300)	up to 17	-	up to 0,03	>75
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ACCORDING
TO NORM
EN16354



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