

UNDERLAYS



www.blauer-engel.de/uz156





**WE CREATE
WE TEST
WE PRODUCE**

Innovation, quality and know-how. Since 1994 we've been investing in knowledge, technology and our machinery park.

We aim to become market LEADER wherever we are present. We are pushing forward and strive for more to deliver accessories perfectly matched to the products.



TECHNOLOGY

Our inhouse laboratory is testing hundreds of floors from all major manufacturers to improve our accessories and create a functional flooring system. That's why we know the strongest and weakest points of all types of floors. We are also testing our underlays to deliver top quality solutions for different floor types.

DESIGN

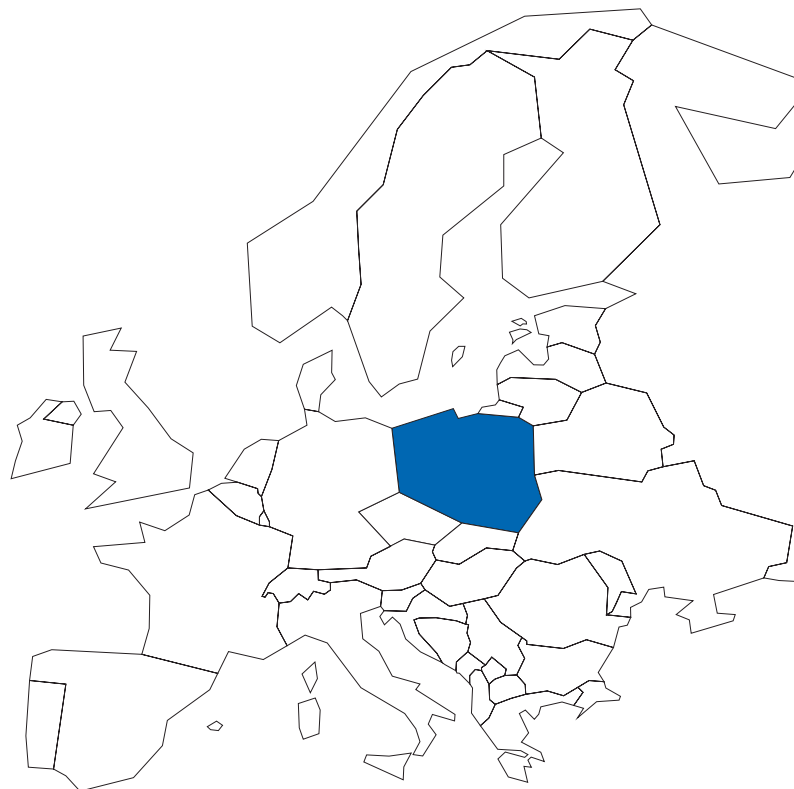
Every year A.DESIGN STUDIO analyzes trends, changes in consumer preferences and hundreds of new floor colors. That's why we can create customer orientated solutions and stay relevant.

INNOVATION

We are an European leader in the production of floor accessories. We offer advanced and innovative products. We are pushing the flooring industrie forwards for the more effective, ecological and durable solution.



MADE IN EUROPE



NEWS 2023

NEW RWS PARAMETER!

In December 2022, the EPLF association published an update to their underlayment requirements, which included changes to the recommended RWS parameter. Arbiton is the first to implement these updated requirements.

[> more on page 08](#)



EPD FOR ARBITON UNDERLAYS!

We are proud to announce that we have implemented EPD certification, demonstrating our commitment to sustainability and transparency in our products. This certification verifies the environmental impact of our products throughout their entire life cycle, providing valuable information to our customers and stakeholders.

[> more on page 10](#)



M-BASE FAMILY

We are excited to introduce our new line of flooring underlayments, which are likely the most eco-friendly on the market. These underlayments are made from sustainable materials and have a low environmental impact, while still providing excellent performance and comfort.

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ARBITON PHILOSOPHY



Our main priority is always the consumer and their needs. In the context of underlayments, we have identified three key dimensions of needs. The first is "PERFORMANCE" which includes technical aspects such as durability, effective heat conduction, and appropriate soundproofing. These parameters are the result of years of research and testing, and all of our products are made in accordance with EN16354 standard, with test results and technical parameters presented in accordance with the specified testing methodologies. This year, as the first on the market, we present a complete set of data according to the latest technical bulletin EPLF from December 2022, including the RWS parameter in SONES.

The next important dimension is "INSTALLATION," as proper installation is crucial for the underlayment to perform its function. Therefore, we want to make the work of professional installers easier and faster, while also ensuring comfort and safety for occasional DIY enthusiasts.

The final, but no less important dimension is environmental protection. In view of the coming years and plans to reduce global warming, concern for ecology is becoming increasingly important. That is why since last year, a large part of our products have been marked with the BLUE ANGEL certificate - a guarantee of ecological safety. Moreover, as the first on the market, we present an EPD certificate for almost all of our products. We have identified the carbon footprint of all of our products in the MBASE, MULTIPROTEC, and SECURA families. This is the first step towards reducing our impact on the environment!

Our greatest ASSET IS qualified and motivated employees, organization of work that creates room for conducting a numbers of tests on a daily basis. Our laboratory is equipped WITH modern measuring and control apparatus, which leads to fast and precise results.

PERFORMANCE



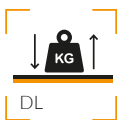
ARBITON UNDERLAYS MEET REQUIREMENTS OF EU NORM EN16354

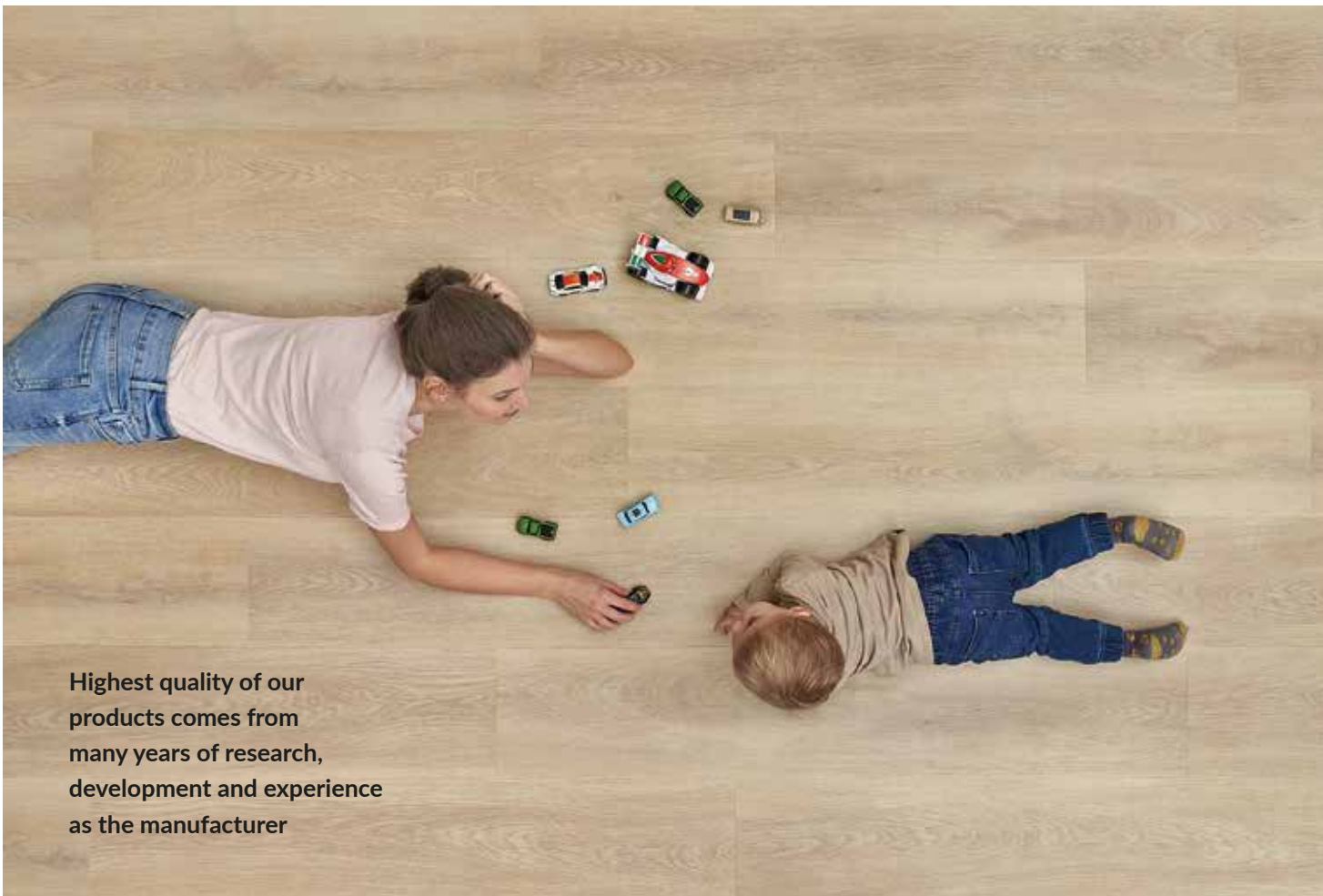
As the market leaders and forward thinkers we strongly emphasise on the development of our products. That is why we are the first manufacturer in Central Europe with all the products in our portfolio having achieved all requirements from EN16354 norm.

Since April 2019 each underlay needs to fulfil particular conditions of EN16354 European norm. This regulation describes crucial parameters for underlayment and for the first time, sets the methodology of measuring performance, clarifies the evaluation of product between different manufacturers and unifies the comparison. Now manufacturers are obligated to inform about six basic parameters of the product.

Among these parameters, three of them apply to the durability of the floor.

Norm refers to:

-  **PUNCTUAL CONFORMABILITY (PC)**
Is an ability of the underlay to absorb small defects of subfloor.
-  **COMPRESSIVE STRENGTH (CS)**
It helps to ensure integrity of the flooring system.
-  **DYNAMIC LOAD (DL)**
Aims to secure sufficient resistance against long term changeable load (f.e. by walking people, sitting and rolling on a castor chair etc).



Highest quality of our products comes from many years of research, development and experience as the manufacturer

PERFORMANCE

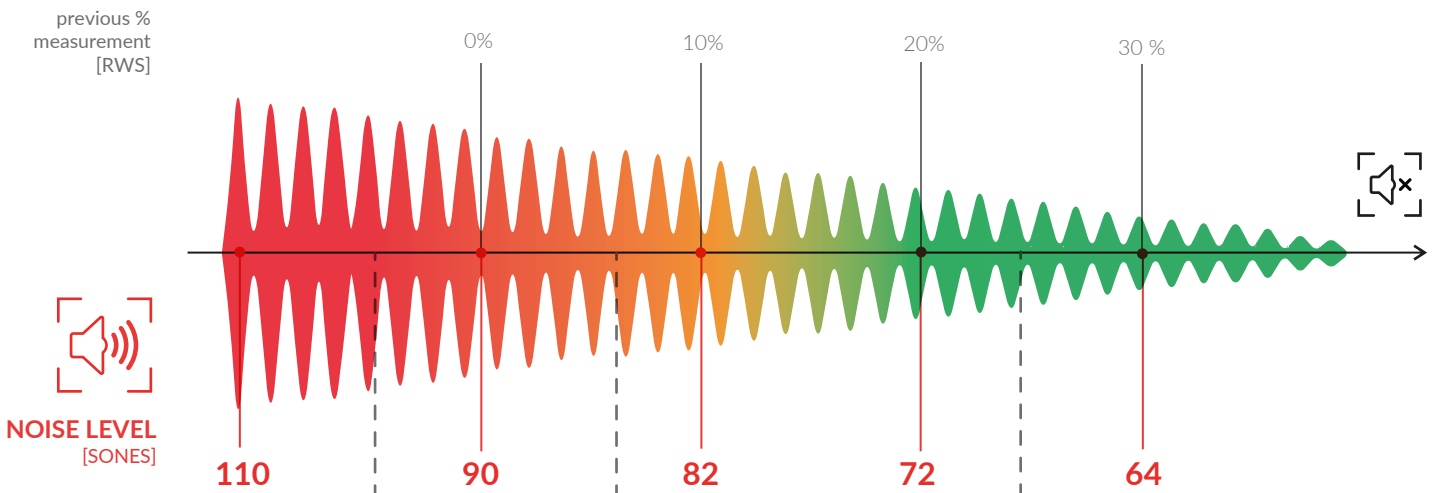
NEW STANDARD OF RWS COMMUNICATION



RWS parameter demonstrates the difference in loudness of steps resonating on the floor. Starting from 2023, as EPLF recommends, we will describe the RWS parameter in sones, instead of percents.

To compare them we are using objective scale of loudness which describes level of loudness expressed in sones.

The lower the number of sones is the better - reflected sound in quieter.



Acoustic performance of laminate floors was measured in correlation to the flooring system of laminate planks together with PE Foam.

SONES describe objective loudness so this way is possible to compare different flooring systems i.e., laminate flooring with underlay and vinyl flooring with underlay.



PE FOAM



XPS SMART UNDERLAYS



MULTIPROTEC ABSOLUTE

PERFORMANCE



ARBITON UNDERLAYS FULFIL EN16354 NORM AND LATEST EPLF RECOMMENDATIONS

	Requirement	KPI	Description	Benefits for users	Minimum value	Recommended value	
EN16354 NORM GUIDELINES	FLOOR DURABILITY	PUNCTUAL CONFORMABILITY		Smoothing small local defects of the subfloor or small particles laying on the subfloor	Preventing from cracking and clicking noise from sound bridges	$\geq 0,5$ mm	
		COMPRESSIVE STRENGTH		Compressive strength at deformation	Protection of locking system and against cracking	≥ 10 kPa	≥ 60 kPa
		COMPRESSIVE CREEP RESISTANCE		Sustained static load	The higher value allow placed heavier furniture on the flooring system	≥ 2 kPa	≥ 20 kPa
		DYNAMIC LOAD		Resistance of the underlay against long-term dynamic load	Resistance to intensive usage	$\geq 10\ 000$ cycles	$\geq 100\ 000$ cycles
		RESISTANCE TO IMPACT BY LARGE BALL		Measured for the whole system - laminate + underlay	Protecting from deformation in case of heavy object fall	> 500 mm	> 1200 mm
ADDITIONAL PARAMETERS - EPLF RECOMMENDATION	ACOUSTIC COMFORT	IMPACT SOUND REDUCTION		Transferred sound reduction	Sounds transferred to area below are muffled	≥ 14 dB	≥ 18 dB
		RADIATED WALKING SOUND		Reflected walking sound emitted	Reduction of noises reflected from the floor f.e. steps	< 110 sones	
	THERMAL COMFORT	THERMAL BARRIER		Heat insulation*	Reduction of hot or cold transmission through the floor covering	$\geq 0,075$ m ² K/W	
	FLOOR HEATING	THERMAL RESISTANCE		Usefulness for coverings with underfloor heating (H) or cooling (C)**	Less time required for heating up/cooling off; energy savings	H: $\leq 0,15$ C: $\leq 0,15$ m ² K/W	
SUBSTRATE STRUCTURE	WATER VAPOUR RESISTANCE		Protection against residual moisture in substrate	Avoiding damp related damages	≥ 75 m		

*EN16354 norm and 12/2022 TECHNICAL BULLETIN - Installation of Laminate Floor Coverings / ** Tested with the entire system - floor + underlay

ENVIROMENT

RESPONSIBLE MANUFACTURING

ZERO WASTE

The idea of zero waste has gained popularity in recent years, especially in the context of manufacturing processes. The goal is to eliminate waste by maximizing the use of materials and reducing the amount of waste generated. This involves a shift towards a circular economy, where resources are reused and recycled instead of being disposed of. By implementing zero waste practices, we can reduce our environmental impact and save resources. It requires a shift in mindset and a commitment to continuously improve and innovate towards a more sustainable future.



BLUE ANGEL LABEL

The Blue Angel – the environmental label of the German federal government – has set solid standard for environmentally friendly, healthy and durable products and services in an independent and credible way since 1978.

The Blue Angel is German most best known environmental label. You can thus benefit from the clear competitive advantages and added level of trust that this environmental label bring to the market and amongst consumers.



EPD

all our M-Base, Multiprotec and Secura products has a Type III Environmental Product Declaration (EPD) based on EN 15804 and verified according to ISO 14025 by an external auditor. It contains the information on the impacts of the declared construction materials on the environment.



POSITIVE PRODUCTS

Last year, our company implemented and certified Environmental Product Declarations (EPD) for our underlays, showcasing our commitment to sustainability and environmental responsibility. As a part of our ongoing "DecoRA WAY" strategy, we are taking numerous actions to manage and improve our environmental impact, with a primary focus on reducing our CO₂ emissions. By employing innovative technologies, optimizing production processes, and continuously seeking out eco-friendly materials, we are dedicated to lowering our carbon footprint and promoting sustainable practices throughout our operations.

Our commitment to the "DECORA WAY" strategy reflects our determination to create a greener future for both our business and the planet.

SMALL STEPS, BIG EFFECT

- 15%

Switching the product color from green to graphite can contribute to a reduction in CO₂ emissions. The change in pigment and manufacturing processes allows for a more eco-friendly production, ultimately lowering our carbon footprint.

> 30% RECYCLING

In Secura Aquastop Family we implemented min 30% recycling materials rule, which results in a further reduction of environmental impact

> 3 000 000 KG

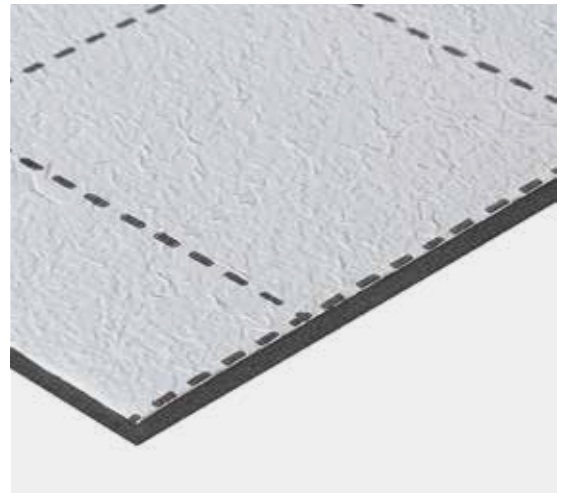
We collect, purchase, and process plastic waste every year. Thanks to us, it does not pollute the natural environment.

~ 11T CO₂

Estimated annual CO₂ equivalent savings due to the replacement and modernization of the lighting management system in production.

BLUE ANGEL

The Blue Angel is a prestigious environmental certification awarded to products and services that demonstrate a commitment to sustainability and eco-friendliness. The certification sets stringent criteria for environmental impact, health, and performance, ensuring that products bearing the Blue Angel symbol uphold the highest standards of environmental responsibility.



INSTALLATION

INSTALLATION

3IN1

- > UNDERLAYMENT
- > DAMP PROOF MEMBRANE
- > SELF-ADHESIVE TAPE

Unique system that offers quicker installation and saves time



CUTTING LINES

The most advanced polyurethane with minerals underlay (PUM) for vinyl click flooring. Supreme quality that ensures durability of a flooring system.

Now also with cutting lines for simpler and faster installation.



FAN FOLD FORM

designed and manufactured for quicker and more secure installation.



CHOOSE THE RIGHT UNDERLAY

We have got all of your needs covered with our house concept

FLOOR HEATING

Do you fit the floor with underfloor heating system?

Look for products with the following icon



ACOUSTIC COMFORT

Do you want to improve acoustic comfort?

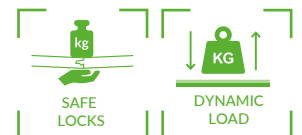
Look for products with the following icon



FLOOR DURABILITY

Do you fit the floor in high traffic area?

Look for products with the following icon



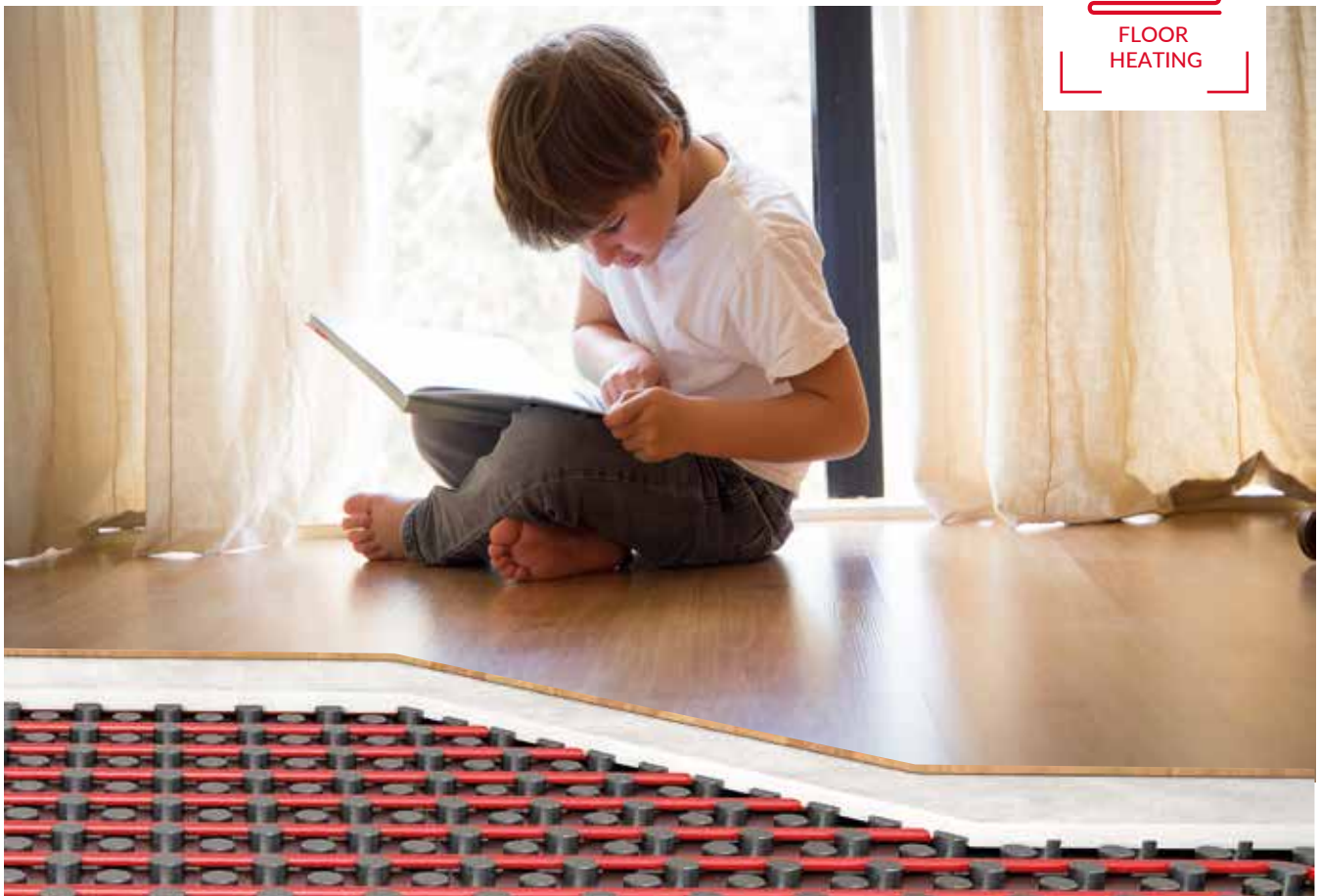
THERMAL COMFORT

Do you need to insulate the room from the colder area underneath?

Look for products with the following icon



FLOOR HEATING



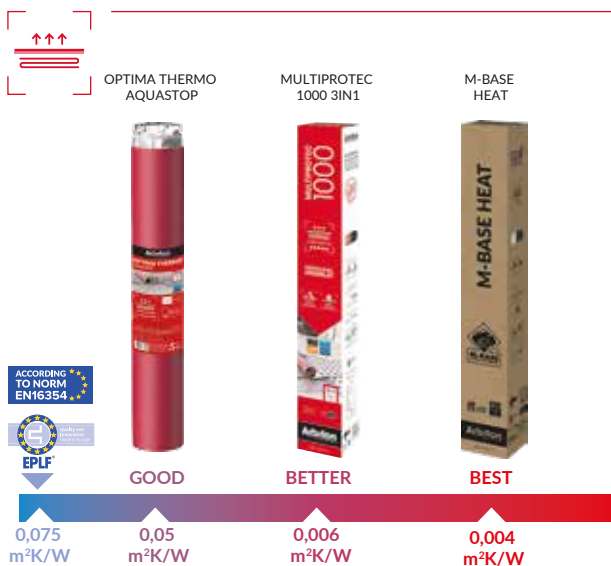
The choice regarding which floor type will be used is done at the very beginning when planning an investment. The thermal resistance is the factor that should be taken into consideration. correctly selected underlay will reduce resistance of the system and allow for warm air to pass into the area easier.

The thermal resistance of a flooring system (floor covering + underlay) should not exceed 0,15 m²K/W in accordance with EN 16345 and DIN EN1264.

The lower the thermal resistance of the flooring, the higher the efficiency of the underfloor heating. To determine the thermal resistance of a flooring system, simply add the thermal resistance values of the floor covering and the underlay.

For example, laminate flooring of 8 mm thickness has a thermal resistance of ~0,08 m²K/W. With this type of flooring, you should use an underlay with minimal thermal resistance. Arbiton offers such solutions.

M-Base HEAT is the best underlay for underfloor heating, with a thermal resistance of only 0,004 m²K/W. This parameter is a result of its density and natural mineral ingredients, which conducts heat very well. It drastically reduces energy consumption compared to other products. Efficient underfloor heating guarantees savings on heating cost of the household.



THERMAL COMFORT



The higher the R value, the better the flooring system will be suited for use on an uninsulated subfloor.

Do you need to INSULATE YOUR ROOM FROM THE COLD area underneath?

In case of installation on uninsulated subfloors on the ground floor, in a basement or above unheated areas like garages, increased comfort can be achieved with good thermal insulation of the floor covering.

This can help provide higher floor temperatures and more comfort when walking barefoot.



SECURA EXTRA
AQUASTOP SMART

SECURA MAX
AQUASTOP SMART



BETTER

BEST

ACCORDING TO NORM EN16354



0,075 m²K/W

0,11 m²K/W

0,18 m²K/W

ACOUSTIC COMFORT



While we cannot completely eliminate floor noises, they can be reduced significantly with a suitable underlay. Reduction in sound noise is expressed in two ways. First one is the reduction of reflected walking sound inside a room that is measured in SONES. The lower the number is the better acoustic performance and quieter room. Second measurement is reduction of impact sounds that are transmitted through the subfloor. This is a very important factor in residential buildings, providing better acoustic insulation from neighbours.

What does this actually mean?

Well, a IS noise reduction of 10 dB corresponds to 50% soundproofing to the human ear. The best underlays for laminate floor have an RWS of 64 sones and an IS of more than 20 dB. Standard PE foam seem to be less useful in this area, as it has hardly any effect on noise reduction (90-95 sones, and 10dB).

RWS

OPTIMA EXPERT
AQUASTOP

GOOD

110 sones

MULTIPROTEC
ACOUSTIC 3IN1

BETTER

74 sones

MULTIPROTEC
ABSOLUTE 3IN1

BEST

66 sones

The lower the number of sones is the better - reflected sound in quieter.

IS

MULTIPROTEC
ABSOLUTE 3IN1

BETTER

14 dB

SECURA MAX
AQUASTOP SMART

BEST

21 dB

10 dB Δ _{in}

FLOOR DURABILITY



WILL THE FLOOR BE USED IN A HIGH-TRAFFIC ROOM?

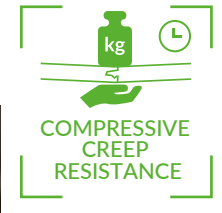
If so, use an underlay with the highest compressive strength parameter (kPa). The higher the CS value the better the underlayment will protect the locking system and counteract the deformation and opening-up of any cracks.

Recommendations from EPLF specify that CS value must be at least 60 kPa. In our laboratories we conduct series of tests. One of them is castor chair test. Arbiton underlays significantly improve the durability of the floor covering and contribute to reach a higher number of cycles and in some cases let the floor pass the 25 000 cycles mark.

Product	CS Value (kPa)	Quality Rating
OPTIMA EXPERT AQUASTOP	60	GOOD
SECURA AQUASTOP SMART	90	BETTER
MULTIPROTEC 1000 3IN1	310	BEST



COMPRESSIVE CREEP RESISTANCE



When a floor with an underlay is exposed to a long-term static load (e.g. by heavy furniture), all advantages in technical performance of the underlay, such as acoustic and thermal insulation, leveling ability, etc., may be significantly reduced.

To prevent this, the flooring system is tested for long-term load - CC (Compressive Creep resistance). The CC parameter evaluates what static load can be applied to the floor over a 10-year period without any decrease in physical properties of underlay. (i.e. reduction in thickness by 0,5 mm). The higher the CC value, the greater the static load - incl. heavier furniture - can be placed on the floor system for a long time without losing its technical qualities. The recommended CC value is 20 kPa.



DYNAMIC LOAD

Underlay is not an additional equipment but an integral part of the floor system. Properly selected underlay **ENHANCES** durability of the floor for many years.

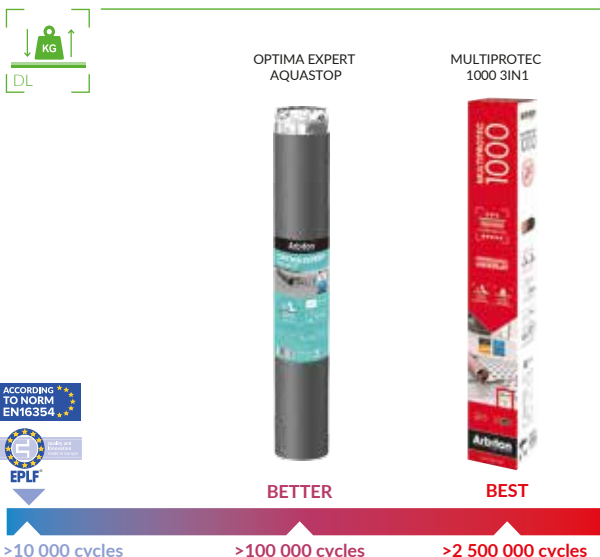


Parameter which in very visual way describes durability of the floor is dynamic load (DL). DL ensures sufficient resistance of the underlay against long-term dynamic loads caused by walking people or sitting and rolling on a castor chair.

The higher value of DL parameter the better and more long-lasting your floor will be – this means that more cycles can be applied to the underlay that result in contractions of material.

The EN16354 norm introduced three classes of resistance – the lowest is DL1 and the highest DL3. Minimal requirement to qualify a product as an underlay is 10 000 cycles.

The most popular product in DIY stores – PE FOAM, does not achieve 10 000 cycles hence cannot be named as underlay.*



*Refers to PE product with density below 30 kg/m³

UP TO
2 500 000 **
 CYCLES
12 YEARS
 OF COMMERCIAL USE!

** in case of underlay for laminate and natural floors

M-BASE

**NATURAL,
MINERAL
BASED
UNDERLAYS
FOR ALL KIND
OF FLOOR**





BRAND NEW! M-BASE

Arbiton brand introduced to its offer new family of mineral underlays from the M-Base line. M-Base is one of the most environmentally-friendly underlays on the market. Designed for all people who care about natural environment. M-Base is an underlay made from as much as 94% ingredients of natural origin like natural minerals and organic oils. Thanks to the elimination of artificial dyes – the product can be recycled.

Additionally we packed them in ecological, recycled cardboard packaging. The M-Base underlay line has ecology written into its DNA. M-Base underlays belong to the group of PUM underlays from the well-known and prestigious Multiprotec line. They are distinguished by very high quality and excellent consumer reviews. M-Base product line of five products. This underlays are designed for NATURAL flooring. The underlays meet stringent standards and provide the highest possible performance.



**UNDERLAYS
DESIGNED FOR
EFFECTIVE USE
OF UNDERFLOOR
HEATING**

**30%
BETTER!**



**M-BASE UNI
2 mm
R=0,007 m²K/W**

VS

other PU underlays
dedicated to underfloor
heating
2 mm
R=0,01 m²K/W





NEW



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Information sur le niveau d'émission de substances volatiles dans l'air intérieur, présentant un risque de toxicité par inhalation, sur une échelle de classe allant de A+ (très faible émission) à C (forte émission).

M-BASE FAMILY



M-HEAT is the product to choose when thinking about underfloor heating for natural floors. The higher thermal resistance associated with natural floors sets a high bar for the underlay used. Thanks to its very low thermal resistance, M-HEAT is the perfect choice.

M-SOUND is designed to create an additional soundproof barrier. It perfectly improves the acoustic comfort of the floor in use – it dampens the sound of steps and creates an effective barrier against the TRANSMISSION of sound through the floor.

M-GLUE is a solution to combine both thermal efficiency and acoustic properties of the floor. It also improves the resilience of the floor. M-Glue is installed by applying glue to both sides - subfloor first and floor second.

M-BASE HEAT



MATERIAL	PUM+PET
THICKNESS	1,5 mm
FORM	ROLL / 8 m ²

PC	CLASS PC2 (<1,2 mm)
CS	CLASS CS3 (<280 kPa)
CC	CLASS CC3 (50 kPa)
DL	CLASS DL3 (> 2 500 000 CYCLES)
RLB	CLASS RLB2 (≤1000 mm)
IS	<17 dB
RWS	72 soles
FLOOR HEATING	YES
THERMAL COMFORT	<0,004 m ² K/W
SD	>75 m
EAN	5905167847053

NEW

M-BASE UNI



MATERIAL	PUM+PET
THICKNESS	2 mm
FORM	ROLL / 8 m ²

PC	CLASS PC2 (<1,4 mm)
CS	CLASS CS3 (240 kPa)
CC	CLASS CC3 (50 kPa)
DL	CLASS DL3 (> 2 500 000 CYCLES)
RLB	CLASS RLB2 (≤1000 mm)
IS	<18 dB
RWS	66 sonos
FLOOR HEATING	YES
THERMAL COMFORT	<0,007m ² K/W
SD	>75 m
EAN	5905167852743

NEW

FOR VINYL FLOOR

M-BASE VINYL



MATERIAL	PUM+PET
THICKNESS	1,3 mm
FORM	ROLL / 8 m ²

PC	CLASS PC2 (<1,0 mm)
CS	CLASS CS3 (550 kPa)
CC	CLASS CC3 (70 kPa)
DL	CLASS DL3 (> 3 000 000 CYCLES)
RLB	CLASS RLB2 (≤1100 mm)
IS	<17 dB
RWS	62 sonos
FLOOR HEATING	YES
THERMAL COMFORT	<0,004 m ² K/W
SD	>75 m
EAN	5905167852750

M-BASE SOUND



MATERIAL	PUM+PET
THICKNESS	2,4 mm
FORM	ROLL / 6 m ²

PC	CLASS PC2 (<1,6 mm)
CS	CLASS CS2 (<120 kPa)
CC	CLASS CC3 (50 kPa)
DL	CLASS DL3 (>2 500 000 CYCLES)
RLB	CLASS RLB2 (≤1000 mm)
IS	<19 dB
RWS	66 sonos
FLOOR HEATING	YES
THERMAL COMFORT	<0,009 m ² K/W
SD	>75 m
EAN	5905167847060

M-BASE GLUE



MATERIAL	PUM
THICKNESS	2,1 mm
FORM	ROLL / 7 m ²

PC	CLASS PC2 (<1,3 mm)
CS	CLASS CS3 (<300 kPa)
CC	CLASS CC3 (50 kPa)
DL	CLASS DL3 (>2 500 000 CYCLES)
RLB	CLASS RLB3 (≤1300 mm)
IS	<17 dB
RWS	75 sonos
FLOOR HEATING	YES
THERMAL COMFORT	<0,01 m ² K/W
SD	>75 m
EAN	5905167847077

FLOATING FLOOR LAMINATE & NATURAL FLOORS

A floor system is working at its best if the underlay and floor perform optimally together.

Good quality underlay:

- > Protects the floor permanently
- > Improves the properties of the floor
- > ENSURES smooth installation

The right underlay for laminate floors will provide:

- > floor durability
- > locks protection
- > acoustic comfort
- > thermal insulation and comfort





MULTIPROTEC FAMILY



Polyurethane-mineral underlays (PUM)
– the highest **STANDARD OF UNDERLAYS**
that ensures the best sound-proofing.
Furthermore a very high **STATIC AND DYNAMIC PRESSURE** resistance ensures floor protection and durability. Very low heat resistance makes the underlay an ideal solution for underfloor heating systems.

Multiprotec Acoustic is dedicated for the people who strongly value acoustic comfort. Thanks to its advanced technology Multiprotec Acoustic allows decrease of the intensity of sound penetrating the floor a 100 time. We are constantly developing our products to be market leader. That is why our laboratory develops the PUM underlay without compromise.

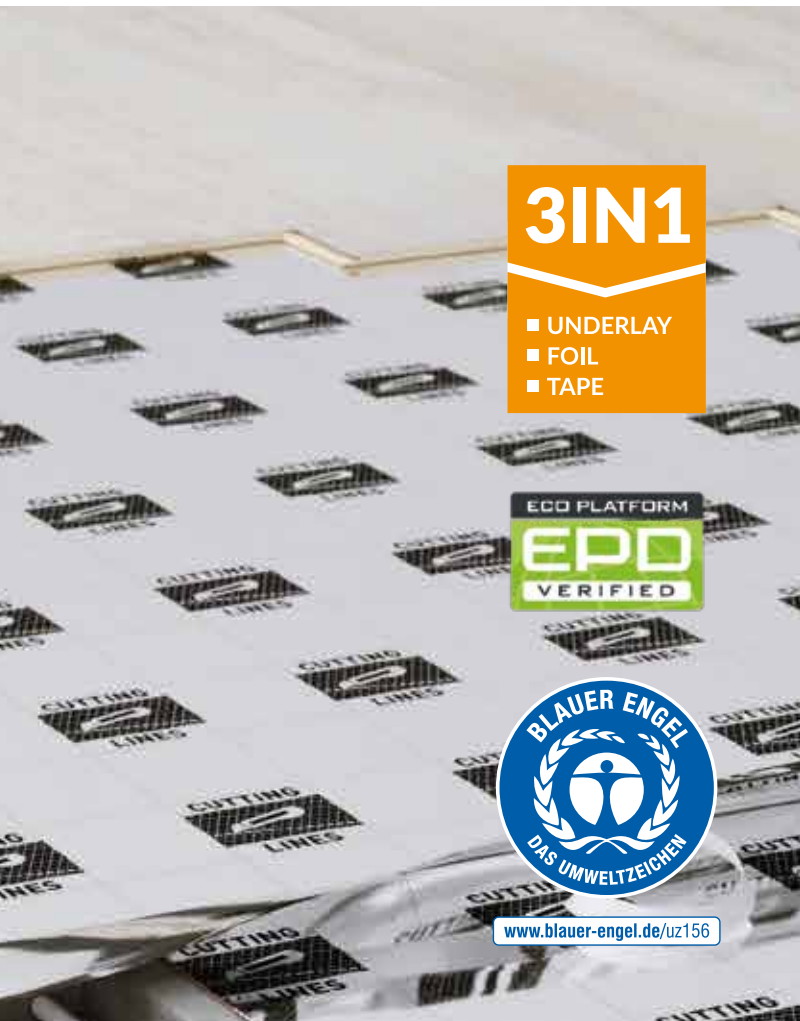
Multiprotec Absolute ensures highest acoustic parameters among PUM underlays.



FLEECE

Faster and more convenient installation thanks to better grip to subfloor





3IN1

- UNDERLAY
- FOIL
- TAPE

ECO PLATFORM
EPD
VERIFIED



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MULTIPROTEC ACOUSTIC 3IN1



MATERIAL	PUM+PET
THICKNESS	2,0 mm
FORM	ROLL / 8 m ²

PC	CLASS PC2 (<1,6 mm)
CS	CLASS CS3 (<250 kPa)
CC	CLASS CC3 (<50 kPa)
DL	CLASS DL3 (> 2 500 000 CYCLES)
RLB	CLASS RLB2 (≤1000 mm)
IS	<20 dB
RWS	66 sones
FLOOR HEATING	YES
THERMAL COMFORT	<0,01 m ² K/W
SD	>150 m
EAN	5905167816851

MULTIPROTEC 1000 3IN1



MATERIAL	PUM+PET
THICKNESS	1,5 mm
FORM	ROLL / 8 m ²

PC	CLASS PC2 (<1,2 mm)
CS	CLASS CS3 (<310 kPa)
CC	CLASS CC3 (<50 kPa)
DL	CLASS DL3 (> 2 500 000 CYCLES)
RLB	CLASS RLB2 (≤1000 mm)
IS	<16 dB
RWS	72 sones
FLOOR HEATING	YES
THERMAL COMFORT	<0,006 m ² K/W
SD	>150 m
EAN	5905167816844

MULTIPROTEC ABSOLUTE 3IN1



MATERIAL	PUM+PET
THICKNESS	3,0 mm
FORM	ROLL / 5 m ²

PC	CLASS PC3 (<2,3 mm)
CS	CLASS CS2 (<100 kPa)
CC	CLASS CC3 (<50 kPa)
DL	CLASS DL3 (> 2 500 000 CYCLES)
RLB	CLASS RLB2 (≤1000 mm)
IS	<21 dB
RWS	64 sones
FLOOR HEATING	YES
THERMAL COMFORT	<0,01 m ² K/W
SD	>150 m
EAN	5905167816868

OPTIMA FAMILY



OPTIMAL CHOICE

Underlays from Optima line enhance acoustic comfort – reduce noise, and thanks to low thermal resistance are the ideal solution for underfloor heating.

Dedicated product for underfloor heating is **Optima Thermo Aquastop**. This product has very low thermal resistance value. In this product family we also have 3in1 products like **Optima Expert Aquastop** which combines underlay, damp proof membrane with overlap of foil and adhesive tape. Thanks to this you can easily place and join pieces of underlay and create solid moisture barrier.

Underlays from Optima Family offer high quality parameters with attractive pricing.

> Acoustic comfort

– good solution in both muffling reflected and transferred sound.

> Ideal for underfloor heating

thanks to low thermal resistance.

> Quick installation

– easy to unfold roll with integrated AQUASTOP damp proof membrane with overlap and tape.

> Durable and light thanks

to high density polyethylene.

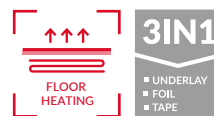
OPTIMA EXPERT AQUASTOP



MATERIAL	PEHD+PET
THICKNESS	2,0 mm
FORM	ROLL / 10 m ²

PC	CLASS PC2 (<1,3 mm)
CS	CLASS CS2 (<70 kPa)
CC	-
DL	CLASS DL2 (>100 000 CYCLES)
RLB	CLASS RLB3 (≤1300 mm)
IS	<19 dB
RWS	74 sonos
FLOOR HEATING	YES
THERMAL COMFORT	<0,05 m ² K/W
SD	>150 m
EAN	5905167778784

OPTIMA THERMO AQUASTOP



MATERIAL	PEHD+PET
THICKNESS	1,5 mm
FORM	ROLL / 10 m ²

PC	CLASS PC2 (<1,2 mm)
CS	CLASS CS2 (<60 kPa)
CC	-
DL	CLASS DL2 (>100 000 CYCLES)
RLB	CLASS RLB3 (≤1300 mm)
IS	<18 dB
RWS	79 sonos
FLOOR HEATING	YES
THERMAL COMFORT	<0,03 m ² K/W
SD	>150 m
EAN	5905167778791

OPTIMA AQUASTOP



MATERIAL	PEHD+PET
THICKNESS	2,0 mm
FORM	ROLL / 10 m ²

PC	CLASS PC2 (<1,3 mm)
CS	CLASS CS2 (<60 kPa)
CC	-
DL	CLASS DL2 (>100 000 CYCLES)
RLB	CLASS RLB3 (≤1500 mm)
IS	<19 dB
RWS	77 sonos
FLOOR HEATING	YES
THERMAL COMFORT	<0,04 m ² K/W
SD	>150 m
EAN	5905167778777

OPTIMA MAX



MATERIAL	PEHD
THICKNESS	2,0 mm
FORM	ROLL / 10 m ²

PC	CLASS PC2 (<1,3 mm)
CS	CLASS CS2 (<60 kPa)
CC	-
DL	CLASS DL2 (>100 000 CYCLES)
RLB	CLASS RLB3 (≤1500 mm)
IS	<19 dB
RWS	77 sonos
FLOOR HEATING	YES
THERMAL COMFORT	<0,04 m ² K/W
SD	-
EAN	5905167779316

SECURA SMART FAMILY



www.blauer-engel.de/uz156



Underlays from this family thanks to their properties are great solutions for compensating small surface irregularities. Secura Family is also the best choice when it comes to sound absorption and reduction of sound transferred to closest areas. They are highly recommended for thermal insulation and for installation when durability of the floor is a must.

OVERLAP

Perfect solution for creating solid vapour barrier.

SMART INSTALLATION

3IN1 underlay: Underlay has a firm and stable connection.

EASY MERCHANDISING for DIY

Easy logistics, easy to manage in the store, easy for consumer to choose.



10 dB Δ_{lin}



SECURA MAX AQUASTOP SMART



MATERIAL	XPS+PET
THICKNESS	5,0 mm
FORM	SMART / 5,5 m ²

PC	CLASS PC3 (<4,6 mm)
CS	CLASS CS2 (<90 kPa)
CC	CLASS CC2 (<25 kPa)
DL	CLASS DL3 (>500 000 CYCLES)
RLB	CLASS RLB3 (≤1600 mm)
IS	<22 dB
RWS	81 sones
FLOOR HEATING	-
THERMAL COMFORT	<0,18 m ² K/W
SD	>150 m
EAN	5905167734728

SECURA EXTRA AQUASTOP SMART



MATERIAL	XPS+PET
THICKNESS	3,0 mm
FORM	SMART / 6 m ²

PC	CLASS PC3 (<2,6 mm)
CS	CLASS CS2 (<90 kPa)
CC	CLASS CC2 (<30 kPa)
DL	CLASS DL3 (>500 000 CYCLES)
RLB	CLASS RLB3 (≤1600 mm)
IS	<21 dB
RWS	79 sonos
FLOOR HEATING	-
THERMAL COMFORT	<0,11 m ² K/W
SD	>150 m
EAN	5905167807262

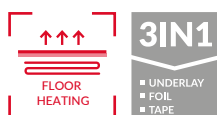
SECURA AQUASTOP SMART



MATERIAL	XPS+PET
THICKNESS	2,2 mm
FORM	SMART / 6 m ²

PC	CLASS PC2 (<1,8 mm)
CS	CLASS CS2 (<90 kPa)
CC	CLASS CC2 (<30 kPa)
DL	CLASS DL3 (>500 000 CYCLES)
RLB	CLASS RLB3 (≤1500 mm)
IS	<20 dB
RWS	77 sonos
FLOOR HEATING	-
THERMAL COMFORT	<0,08 m ² K/W
SD	>150 m
EAN	5905167807842

SECURA THERMO AQUASTOP SMART



MATERIAL	XPS+PET
THICKNESS	1,6 mm
FORM	SMART / 6 m ²

PC	CLASS PC2 (<1,2 mm)
CS	CLASS CS2 (<90 kPa)
CC	CLASS CC2 (<30 kPa)
DL	CLASS DL3 (>500 000 CYCLES)
RLB	CLASS RLB2 (≤1200 mm)
IS	<19 dB
RWS	77 sonos
FLOOR HEATING	YES
THERMAL COMFORT	<0,05 m ² K/W
SD	>75 m
EAN	5905167826942

SECURA MAX SMART



MATERIAL	XPS
THICKNESS	5,0 mm
FORM	SMART / 5,5 m ²

PC	CLASS PC3 (<4,6 mm)
CS	CLASS CS2 (<90 kPa)
CC	CLASS CC2 (<25 kPa)
DL	CLASS DL3 (>500 000 CYCLES)
RLB	CLASS RLB3 (≤1600 mm)
IS	<22 dB
RWS	81 sonos
FLOOR HEATING	-
THERMAL COMFORT	<0,18 m ² K/W
SD	-
EAN	5905167826935

SECURA ROLLS FAMILY



We have introduced FLEX TECHNOLOGY to our newest XPS underlays

FLEX TECHNOLOGY prevents XPS underlays from cracking and improves comfort of installation. Thanks to advanced flexibility modifiers you can simply unfold the underlay and smoothly install floor. Now our whole range of rolls in 2 mm and 1,6 mm thickness has benefited from FLEX Technology and offers improved quality of installation this products. XPS underlays with 1,6 mm thickness are perfect solution for well-prepared substrate.

- > **Acoustic comfort** good solution for transferred sound.
- > **Quick installation** easy to unfold roll with integrated AQUASTOP damp proof membrane with overlap and tape.

SECURA AQUASTOP FLEX



MATERIAL	XPS+PET
THICKNESS	2,0 mm
FORM	ROLL / 15 m ²
PC	CLASS PC2 (<1,6 mm)
CS	CLASS CS2 (<60 kPa)
CC	CLASS CC2 (<25 kPa)
DL	CLASS DL3 (>250 000 CYCLES)
RLB	CLASS RLB3 (≤1300 mm)
IS	<20 dB
RWS	83 sones
FLOOR HEATING	-
THERMAL COMFORT	<0,074 m ² K/W
SD	>150 m
EAN	5905167826690

SECURA LIGHT AQUASTOP FLEX



MATERIAL	XPS+PET
THICKNESS	1,6 mm
FORM	ROLL / 10 m ²

PC	CLASS PC2 (<1,1 mm)
CS	CLASS CS2 (<60 kPa)
CC	CLASS CC2 (<25 kPa)
DL	CLASS DL3 (>250 000 CYCLES)
RLB	CLASS RLB3 (≤1200 mm)
IS	<19 dB
RWS	81 sonos
FLOOR HEATING	YES
THERMAL COMFORT	<0,05 m ² K/W
SD	>75 m
EAN	5905167826706

SECURA FLEX



MATERIAL	XPS
THICKNESS	2,0 mm
FORM	ROLL / 16,5 m ²

PC	CLASS PC2 (<1,6 mm)
CS	CLASS CS2 (<60 kPa)
CC	CLASS CC2 (<25 kPa)
DL	CLASS DL3 (>250 000 CYCLES)
RLB	CLASS RLB3 (≤1300 mm)
IS	<20 dB
RWS	83 sonos
FLOOR HEATING	-
THERMAL COMFORT	<0,074 m ² K/W
SD	-
EAN	5905167826713

SECURA LIGHT FLEX



MATERIAL	XPS
THICKNESS	1,6 mm
FORM	ROLL / 20 m ²

PC	CLASS PC2 (<1,1 mm)
CS	CLASS CS2 (<60 kPa)
CC	CLASS CC2 (<25 kPa)
DL	CLASS DL3 (>250 000 CYCLES)
RLB	CLASS RLB3 (≤1200 mm)
IS	<19 dB
RWS	81 sonos
FLOOR HEATING	YES
THERMAL COMFORT	<0,05 m ² K/W
SD	-
EAN	5905167826720

SECURA THERMO



MATERIAL	XPS
THICKNESS	1,6 mm
FORM	ROLL / 16,5 m ²

PC	CLASS PC2 (<1,2 mm)
CS	CLASS CS2 (<90 kPa)
CC	CLASS CC2 (<25 kPa)
DL	CLASS DL3 (>250 000 CYCLES)
RLB	CLASS RLB3 (≤1300 mm)
IS	<19 dB
RWS	81 sonos
FLOOR HEATING	YES
THERMAL COMFORT	<0,05 m ² K/W
SD	-
EAN	5905167748886

VINYL FLOORS

LVT + RIGID = VINYL CLICK

In many languages the category of floors defined by MMFA as class 2 (Polymer RIGID and Polymer LVT Click) is called using the word "vinyl",

In English we say "VINYL CLICK FLOORING"
in German: "VINYLBODEN",
in Czech "VINYLOVÁ PODLAHA",
in Polish "PANELE WINYLOWE"
and in Spanish "SUELOS VINILICOS".

That's why we decided to change the name of our products, from "LVT" to "Vinyl Click".

Vinyl floors installed in click system require AN underlay TO ABSORB small surface irregularities of THE substrate.

Underlay protects locks and DIMINISHES THE sound hole effect.

- > Increased durability and stability of lock connections
- > Absorbing punctual irregularities and protecting from damages
- > Fast and easy floor fitting





CHOOSE ADEQUATE UNDERLAY FOR YOUR VINYL FLOOR (LVT & RIGID)



FLOOR DURABILITY

According to MMFA, the minimum value of the static load parameter should be $CS > 200$ kPa, but the recommended value is $CS > 400$ kPa.



FLOOR HEATING

For the most efficient floor heating, you should use an underlay with the lowest thermal resistance parameter R. MMFA recommends $R < 0,15$ m²K/W for floor system.



WALKING SOUND REDUCTION

Walking sound is understood as the noise that is spread across the room while interacting with floor covering (e.g. when walking over it, playing on it, etc.). This noise is measured in SONES. A 1 kHz tone at 40 dB corresponds to 1 sone. Loudness is a linear measure, twice as high result in sones will correlates to twice as high perceived noise. The lower the RWS value, the better the underlayment will reduce the emission of walking noise.



sones



FIRE RESISTANCE

Use an underlay with proper fire resistance to make sure it complies with building fire-safety requirements.












ANTISLIP

Choose an underlay with or without an anti-slip surface depending on the requirements of the floor producer.



OVERVIEW OF REQUIREMENTS FOR UNDERLAY

	Requirement	KPI	Description	Benefits for users	Minimum value	Recommended value		
EN16354 NORM GUIDELINES	FLOOR DURABILITY	PUNCTUAL CONFORMABILITY		Smoothing small local defects of the subfloor or small particles laying on the subfloor	Preventing from cracking and clicking noise from sound bridges	≥0,5 mm		
		COMPRESSIVE STRENGTH		Compressive strength at deformation	Protection of locking system and against cracking	≥200 kPa	≥400 kPa	
		COMPRESSIVE CREEP RESISTANCE		Sustained static load	The higher value allow placed heavier furniture on the flooring system	≥10 kPa	≥35 kPa	
	ADDITIONAL PARAMETERS - MMFA RECOMMENDATION	ACOUSTIC COMFORT	DYNAMIC LOAD		Resistance of the underlay against long-term dynamic load	Resistance to intensive usage	≥10 000 cycles	≥100 000 cycles
			IMPACT SOUND REDUCTION		Transferred sound reduction	Sounds transferred to area below are muffled	≥10dB	≥18dB
		THERMAL COMFORT	RADIATED WALKING SOUND		Reflected walking sound emitted	Reduction of noises reflected from the floor f.e. steps	>110 sones	the lower the value in sones the quieter flooring system
			THERMAL BARRIER		Heat insulation*	Reduction of hot or cold transmission through the floor covering	≥0,075 m²K/W	
			FLOOR HEATING	THERMAL RESISTANCE		Usefulness for coverings with underfloor heating (H) or cooling (C)**	Less time required for heating up/cooling off; energy savings	H: ≤0,15 C: ≤0,10 m²K/W
		SUBSTRATE STRUCTURE	WATER VAPOUR RESISTANCE		Protection against residual moisture in substrate	Avoiding damp related damages	≥75 m	

*EN16354 norm - MMFA requirements for underlay group 2 (e.g. under floor coverings mmfa class 2 and 3 without hdf core)

** Tested with the entire system - floor + underlay

MULTIPROTEC VINYL FAMILY



SPECIAL NEEDS REQUIRE SPECIAL SOLUTIONS. FOR AREAS WITH HIGH LEVEL OF TRAFFIC INSTALLED FLOOR WITH CLICK SYSTEM REQUIRE UNDERLAY WITH HIGH VALUE OF COMPRESSIVE STRENGTH.

This is exactly what you can expect from our products. If underfloor heating system will be used, do not worry, you are covered – our products also performs well with underfloor heating thanks to low value of thermal resistance.

**MULTIPROTEC VINYL CLICK SUPER HARDLAY
MAX 8 MM WITHOUT FILLING JOINTS**



> Fire resistance class Bfl-s1



> Ideal solution for underfloor heating – lowest thermal resistance



> Highest CS value - perfect for areas with high traffic level

MULTIPROTEC VINYL CLICK



MATERIAL	PUM+PET
THICKNESS	1,4 mm
FORM	ROLL / 8,5 m ²

PC	CLASS PC2 (<1,2 mm)
CS	CLASS CS3 (400 kPa)
CC	CLASS CC3 (<70 kPa)
DL	CLASS DL3 (> 3 000 000 CYCLES)
RLB	CLASS RLB3 (≤1500 mm)
IS	<16 dB
RWS	58 sonos
FLOOR HEATING	YES
THERMAL COMFORT	<0,008 m ² K/W
SD	>75 m
EAN	5905167776339

MULTIPROTEC VINYL CLICK ANTISLIP



MATERIAL	PUM+PET
THICKNESS	1,6 mm
FORM	ROLL / 8,5 m ²

PC	CLASS PC2 (<1,4 mm)
CS	CLASS CS3 (400 kPa)
CC	CLASS CC3 (<60 kPa)
DL	CLASS DL3 (> 3 000 000 CYCLES)
RLB	CLASS RLB3 (≤1500 mm)
IS	<16 dB
RWS	58 sonos
FLOOR HEATING	YES
THERMAL COMFORT	<0,008 m ² K/W
SD	-
EAN	5905167721230

* REMOVE PROTECTIVE FOIL BEFORE INSTALL PANELS

MULTIPROTEC VINYL CLICK SUPER HARDLAY



MATERIAL	PUM+PET
THICKNESS	1,1 mm
FORM	ROLL / 9 m ²

PC	CLASS PC1 (<0,6 mm)
CS	CLASS CS3 (700 kPa)
CC	CLASS CC3 (<100 kPa)
DL	CLASS DL3 (> 3 500 000 CYCLES)
RLB	CLASS RLB2 (≤1100 mm)
IS	<14 dB
RWS	62 sonos
FLOOR HEATING	YES
THERMAL COMFORT	<0,004 m ² K/W
SD	>75 m
EAN	5905167846049

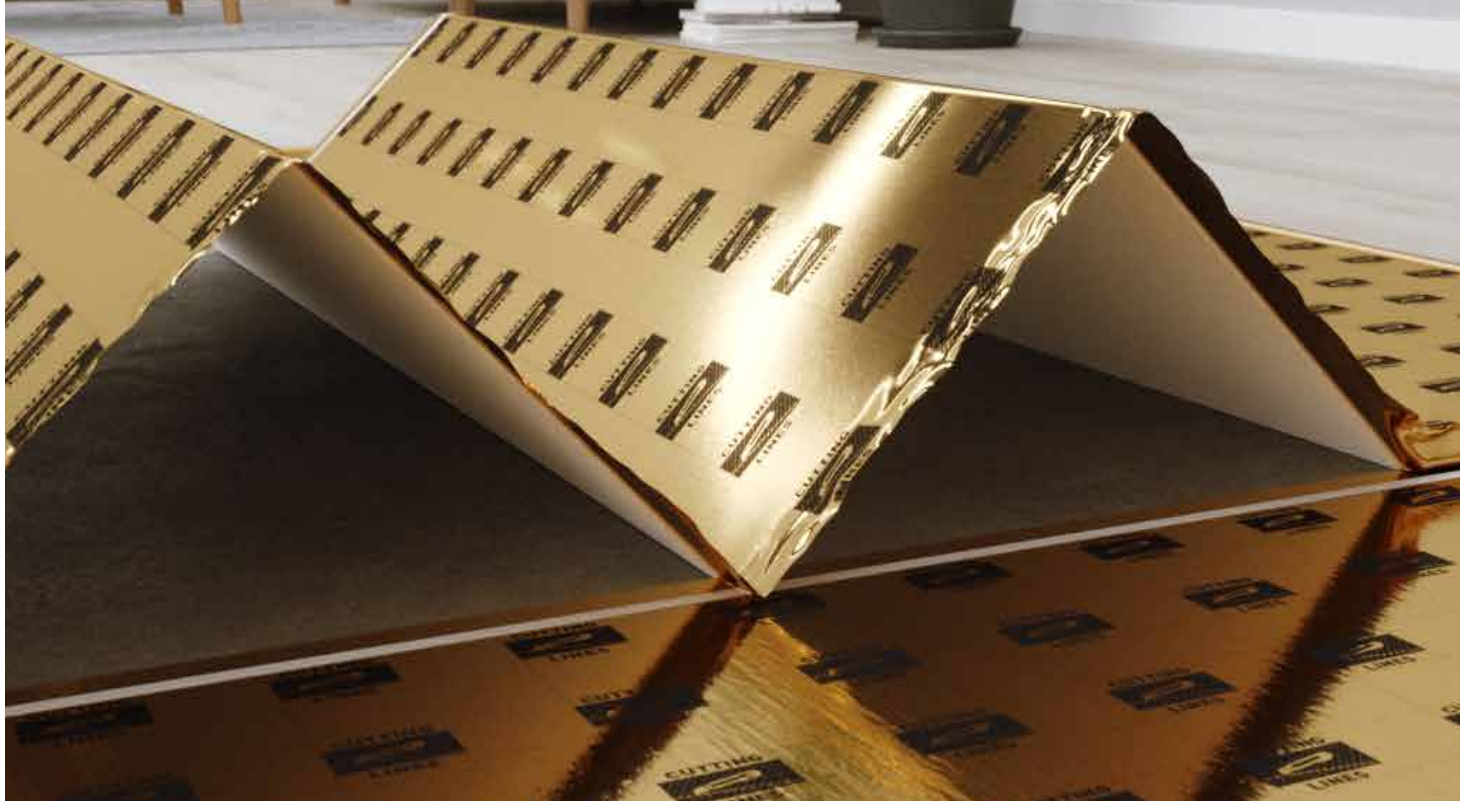
MULTIPROTEC VINYL CLICK ACOUSTIC



MATERIAL	PUM+PET
THICKNESS	2,2 mm
FORM	ROLL / 7 m ²

PC	CLASS PC2 (<1,7 mm)
CS	CLASS CS3 (300 kPa)
CC	CLASS CC3 (<50 kPa)
DL	CLASS DL3 (> 3 000 000 CYCLES)
RLB	CLASS RLB2 (≤1100 mm)
IS	<18 dB
RWS	58 sonos
FLOOR HEATING	YES
THERMAL COMFORT	<0,01 m ² K/W
SD	>75 m
EAN	5905167846063

SECURA VINYL FAMILY



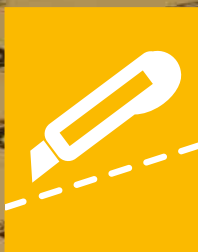
PRODUCTS DEDICATED FOR VINYL FLOORS WITH CLICK SYSTEM. SUITABLE FOR AREAS WITH HIGH TRAFFIC LEVEL.

HIGH CS VALUE IMPROVES QUALITY OF THE SYSTEM AND INCREASES DURABILITY OF THE FLOOR.

This product line is very easy to install and align thanks to accordion form and cutting lines.

High IS value for this XPS products allows for implementation in commercial areas, where special parameters are required.

Whatever your needs we provide you with optimal packaging. Every product from this family is packed 6,25 m² per package.



10 dB Δ_{lin}



SECURA VINYL CLICK



MATERIAL	M-XPS+PET
THICKNESS	1,5 mm
FORM	SMART / 6,25 m ²

PC	CLASS PC2 (<1,0 mm)
CS	CLASS CS3 (400 kPa)
CC	CLASS CC2 (<40 kPa)
DL	CLASS DL3 (>1 000 000 CYCLES)
RLB	CLASS RLB3 (≤1500 mm)
IS	up to 21 dB / 10 dB Δ_{lin}
RWS	60 sones
FLOOR HEATING	YES
THERMAL COMFORT	<0,04 m ² K/W
SD	>150 m
EAN	5905167816943

SECURA VINYL CLICK BLACK



MATERIAL	M-XPS+PET
THICKNESS	1,0 mm
FORM	SMART / 6,25 m ²

PC	CLASS PC1 (<0,8 mm)
CS	CLASS CS3 (400 kPa)
CC	CLASS CC2 (<40 kPa)
DL	CLASS DL3 (>1 000 000 CYCLES)
RLB	CLASS RLB3 (≤1300 mm)
IS	<18 dB
RWS	63 sones
FLOOR HEATING	YES
THERMAL COMFORT	<0,03 m ² K/W
SD	>75 m
EAN	5905167816950

10 dB Δ_{lin}



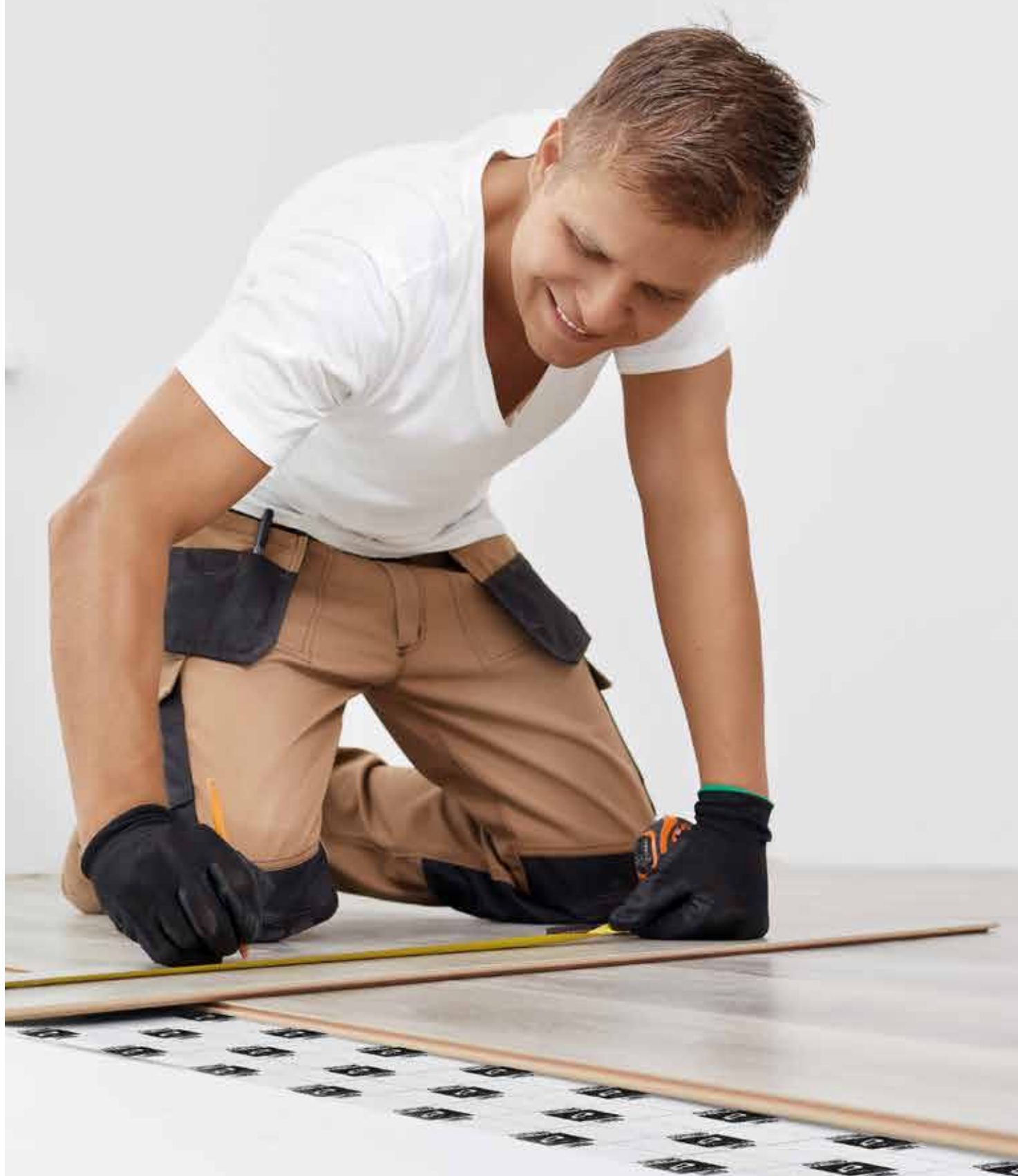
SECURA VINYL CLICK ANTISLIP



MATERIAL	M-XPS+PET
THICKNESS	1,5 mm
FORM	SMART / 6,25 m ²

PC	CLASS PC2 (<1,0 mm)
CS	CLASS CS3 (400 kPa)
CC	CLASS CC2 (<40 kPa)
DL	CLASS DL3 (>1 000 000 CYCLES)
RLB	CLASS RLB3 (≤1500 mm)
IS	up to 21 dB / 10 dB Δ_{lin}
RWS	60 sones
FLOOR HEATING	YES
THERMAL COMFORT	<0,04 m ² K/W
SD	>150 m
EAN	5905167816936

ACCESSORIES



DAMP PROOF FOIL



A vapour insulation barrier is necessary to meet the guarantee requirements (SD>75).

MATERIAL	PEHD
THICKNESS	0,2 mm
FORM	ROLL

SIZE	100 m ² (50,0 m x 2,0 m)
SD	>75 m
EAN	5907584870584

A vapour insulation barrier is necessary to meet the guarantee requirements (SD>75).

MATERIAL	PEHD
THICKNESS	0,2 mm
FORM	PACK

DAMP PROOF FOIL



SIZE	15 m ² (2 m x 7,5 m)
SD	>75 m
EAN	5907584870584

Durably and reliably connects vapour insulation barriers, which prevents formation of cracks and penetration of moisture.

MATERIAL	-
THICKNESS	0,05 mm
FORM	ROLL

ALU TAPE






SIZE	25 m (25,0 m x 0,05 m)
SD	>75 m
EAN	5905167698778













ENGINEERED WOOD & SOLID WOOD & LAMINATE FLOORS

M-BASE FAMILY

	M-Base Heat	M-Base Sound	M-Base Glue	M-Base Uni	M-Base Vinyl	Multiprotec 1000 3IN1
Logistic Parameters						
Thickness	1,5 mm	2,4 mm	2,1 mm	2,4 mm	2,1 mm	1,5 mm
Material	PUM+PET	PUM+PET	PUM	PUM+PET	PUM	PUM+PET
Form	ROLL	ROLL	ROLL	ROLL	ROLL	ROLL
Size [m] / Package [m ²]	8 x 1 / 8	6 x 1 / 6	7 x 1 / 7	8 x 1 / 8	9 x 1 / 9	8 x 1 / 8
Dimension of package [mm]	155x155x1060	155x155x1060	155x155x1060	155x155x1060	155x155x1060	155x155x1060
Weight of package [kg]	10,3	12,22	12,46	13,5	10,1	12,7
	40	40	40	40	40	40
	320 m ²	240 m ²	280 m ²	320 m ²	360 m ²	320 m ²
	10 560 m ²	7 920 m ²	9 240 m ²	10 560 m ²	11 880 m ²	10 560 m ²
EAN	5905167847053	5905167847060	5905167847077	5905167852743	5905167852750	5905167816844
PROD. NO.	158254000000000915	158254000000000916	158254000000000917	158254000000001208	158254000000001209	154231201505000140

Technical Parameters

	PC	CLASS PC2 (1,2 mm)	CLASS PC2 (1,6 mm)	CLASS PC2 (1,3 mm)	CLASS PC2 (1,4 mm)	CLASS PC2 (1,0 mm)	CLASS PC2 (1,2 mm)
	CS	CLASS CS3 (up to 280 kPa)	CLASS CS2 (up to 120 kPa)	CLASS CS3 (up to 300 kPa)	CLASS CS2 (up to 240 kPa)	CLASS CS3 (up to 550 kPa)	CLASS CS3 (up to 310 kPa)
	CC	CLASS CC3 (50 kPa)	CLASS CC3 (50 kPa)	CLASS CC3 (50 kPa)	CLASS CC3 (50 kPa)	CLASS CC3 (70 kPa)	CLASS CC3 (50 kPa)
	DL	CLASS DL3 (>2 500 000 cycles)	CLASS DL3 (>2 500 000 cycles)	CLASS DL3 (>2 500 000 cycles)	CLASS DL3 (>2 500 000 cycles)	CLASS DL3 (3 mln cycles)	CLASS DL3 (>2 500 000 cycles)
	RLB	CLASS RLB2 (≤1000 mm)	CLASS RLB2 (≤1000 mm)	CLASS RLB3 (≤1300 mm)	CLASS RLB2 (≤1000 mm)	CLASS RLB3 (≤1100 mm)	CLASS RLB2 (≤1000 mm)
	RWS	up to 72 sones	up to 66 sones	up to 75 sones	up to 66 sones	up to 62 sones	up to 72 sones
	IS	up to 17 dB	up to 19 dB	up to 17 dB	up to 18 dB	up to 17 dB	up to 16 dB
	FLOOR HEATING	YES	YES	YES	YES	YES	YES
	THERMAL INSULATION	up to 0,004 m ² K/W	up to 0,009 m ² K/W	up to 0,01 m ² K/W	up to 0,007 m ² K/W	up to 0,004 m ² K/W	up to 0,006 m ² K/W
	SD	>75 m	>75 m	>75 m	>75 m	>75 m	>150 m



MULTIPROTEC FAMILY

OPTIMA FAMILY




Multiprotec Acoustic 3IN1	Multiprotec Absolute 3IN1	Optima Expert Aquastop	Optima Thermo Aquastop	Optima Aquastop	Optima Max	
2 mm	3 mm	2 mm	1,5 mm	2 mm	2 mm	Thickness
PUM+PET	PUM+PET	PEHD + PET	PEHD + PET	PEHD + PET	PEHD	Material
ROLL	ROLL	ROLL	ROLL	ROLL	ROLL	Form
8 x 1 / 8	5 x 1 / 5	10 x 1 / 10	10 x 1 / 10	10 x 1 / 10	10 x 1 / 10	Size [m] / Package [m ²]
155x155x1060	155x155x1060	150x150x1000	150x150x1000	150x150x1000	150x150x1000	Dimension of package [mm]
13,2	10,45	2,83	1,83	2,43	2	Weight of package [kg]
40	40	30	48	30	30	
320 m ²	200 m ²	300 m ² / 600 m ²	480 m ² / 960 m ²	300 m ² / 600 m ²	300 m ² / 600 m ²	
10 560 m ²	6 600 m ²	19 800 m ²	31 680 m ²	19 800 m ²	19 800 m ²	
5905167816851	5905167816868	5905167778784	5905167778791	5905167778777	5905167779316	EAN
154231201505000141	154231201505000142	154235184504001002	154235184504001003	154235184504001001	154235184504001018	PROD. NO.

CLASS PC2 (1,6 mm)	CLASS PC3 (2,3 mm)	CLASS PC2 (1,3 mm)	CLASS PC2 (1,2 mm)	CLASS PC2 (1,3 mm)	CLASS PC2 (1,3 mm)	PC
CLASS CS3 (up to 250 kPa)	CLASS CS2 (up to 100 kPa)	CLASS CS2 (up to 70 kPa)	CLASS CS2 (up to 60 kPa)	CLASS CS2 (up to 60 kPa)	CLASS CS2 (up to 60 kPa)	CS
CLASS CC3 (50 kPa)	CLASS CC3 (50 kPa)					CC
CLASS DL3 (>2 500 000 cycles)	CLASS DL3 (>2 500 000 cycles)	CLASS DL2 (>100 000 cycles)	CLASS DL2 (>100 000 cycles)	CLASS DL2 (>100 000 cycles)	CLASS DL2 (>100 000 cycles)	DL
CLASS RLB2 (≤1000 mm)	CLASS RLB2 (≤1000 mm)	CLASS RLB3 (≤1300 mm)	CLASS RLB3 (≤1300 mm)	CLASS RLB3 (≤1500 mm)	CLASS RLB3 (≤1500 mm)	RLB
up to 66 sones	up to 64 sones	up to 74 sones	up to 79 sones	up to 77 sones	up to 77 sones	RWS
up to 20 dB	up to 21 dB	up to 19 dB	up to 18 dB	up to 19 dB	up to 19 dB	IS
YES	YES	YES	YES	YES	YES	FLOOR HEATING
up to 0,01 m ² K/W	up to 0,01 m ² K/W	up to 0,05 m ² K/W	up to 0,03 m ² K/W	up to 0,04 m ² K/W	up to 0,04 m ² K/W	THERMAL INSULATION
>150 m	>150 m	>150 m	>150 m	>150 m	>150 m	SD













LAMINATE FLOORS

SECURA SMART FAMILY














	Secura Max Aquistop Smart	Secura Extra Aquistop Smart	Secura Aquistop Smart	Secura Thermo Aquistop Smart	Secura Max Smart
Logistic Parameters					
Thickness	5 mm	3 mm	2,2 mm	1,6mm	5 mm
Material	XPS + PET	XPS + PET	XPS +PET foil	XPS + PET	XPS
Form	SMART	SMART	SMART	SMART	SMART
Size [m] / Package [m ²]	4,7 x 1,18 / 5,5	5,1 x 1,18 / 6	5,1 x 1,18 / 6	5,1 x 1,18 / 6	4,7 x 1,18 / 5,5
Dimension of packge [mm]	1182x390x60	1180x255x60	1180x257x44	1180x255x32	1180x390x60
Weight of package [kg]	1,03	0,76	0,64	0,64	0,83
	32	48	42	84	32
	176 m ² / 352 m ²	288 m ² / 576 m ²	252 m ² / 504 m ²	504 m ² / 1008 m ²	176 m ² / 352 m ²
	11 264 m ²	18 432 m ²	24 192 m ²	32 256 m ²	11 264 m ²
EAN	5905167734728	5905167807262	5905167807842	5905167826942	5905167826935
PROD. NO.	154235184504000070	158254000000000417	154235184504000078	154231201505000805	154231201505000804

Technical Parameters

	PC	CLASS PC3 (4,6 mm)	CLASS PC3 (2,6 mm)	CLASS PC2 (1,8 mm)	CLASS PC2 (1,2 mm)	CLASS PC3 (4,6 mm)
	CS	CLASS CS2 (up to 90 kPa)	CLASS CS2 (up to 90 kPa)	CLASS CS2 (up to 90 kPa)	CLASS CS2 (up to 90 kPa)	CLASS CS2 (up to 90 kPa)
	CC	CLASS CC2 (25 kPa)	CLASS CC2 (30 kPa)	CLASS CC2 (30 kPa)	CLASS CC2 (30 kPa)	CLASS CC2 (25 kPa)
	DL	CLASS DL3 (>500 000 cycles)	CLASS DL3 (>500 000 cycles)	CLASS DL3 (>500 000 cycles)	CLASS DL3 (>500 000 cycles)	CLASS DL3 (>500 000 cycles)
	RLB	CLASS RLB3 (≤1600 mm)	CLASS RLB3 (≤1600 mm)	CLASS RLB3 (≤1500 mm)	CLASS RLB2 (≤1200 mm)	CLASS RLB3 (≤1600 mm)
	RWS	up to 81 sones	up to 79 sones	up to 77 sones	up to 77 sones	up to 81 sones
	IS	up to 22 dB	up to 21 dB	up to 20 dB	up to 19 dB	up to 22 dB
	FLOOR HEATING				YES	
	THERMAL INSULATION	up to 0,18 m ² K/W	up to 0,11 m ² K/W	up to 0,08 m ² K/W	up to 0,05 m ² K/W	up to 0,18 m ² K/W
	SD	>150 m	>150 m	>150 m	>75 m	






SECURA ROLLS FAMILY











Secura Flex Aquastop	Secura Flex Light Aquastop	Secura Flex	Secura Flex Light	Secura Thermo	
2 mm	1,6 mm	2 mm	1,6 mm	1,6 mm	Thickness
XPS + PET	XPS + PET	XPS	XPS	XPS	Material
ROLL	ROLL	ROLL	ROLL	ROLL	Form
13,64 x 1,1 / 15	9,1 x 1,1 / 10	15 x 1,1 / 16,5	18,2 x 1,1 / 20	15 x 1,1 / 16,5	Size [m] / Package [m ²]
230x230x1100	150x150x1100	230x230x1100	150x150x1100	200x200x1100	Dimension of package [mm]
2,01	1,25	1,76	1,92	1,6	Weight of package [kg]
24	45	24	24	24	
360 m ² / 720 m ²	450 m ² / 900 m ²	396 m ² / 792 m ²	480 m ² / 960 m ²	396 m ² / 792 m ²	
23 040 m ²	28 800 m ²	25 344 m ²	30 720 m ²	25 344 m ²	
5905167826690	5905167826706	5905167826713	5905167826720	5905167748886	EAN
154231201505000780	154231201505000781	154231201505000782	154231201505000783	154234133501046019	PROD. NO.
CLASS PC2 (1,6 mm)	CLASS PC2 (1,1 mm)	CLASS PC2 (1,6 mm)	CLASS PC2 (1,1 mm)	CLASS PC2 (1,2 mm)	PC 
CLASS CS2 (up to 60 kPa)	CLASS CS2 (up to 60 kPa)	CLASS CS2 (up to 60 kPa)	CLASS CS2 (up to 60 kPa)	CLASS CS2 (up to 90 kPa)	CS 
CLASS CC2 (25 kPa)	CLASS CC2 (25 kPa)	CLASS CC2 (25 kPa)	CLASS CC2 (25 kPa)	CLASS CC2 (25 kPa)	CC 
CLASS DL3 (>250 000 cycles)	CLASS DL3 (>250 000 cycles)	CLASS DL3 (>250 000 cycles)	CLASS DL3 (>250 000 cycles)	CLASS DL3 (>250 000 cycles)	DL 
CLASS RLB3 (≤1300 mm)	CLASS RLB3 (≤1200 mm)	CLASS RLB3 (≤1300 mm)	CLASS RLB3 (≤1200 mm)	CLASS RLB3 (≤1300 mm)	RLB 
up to 83 sones	up to 81 sones	up to 83 sones	up to 81 sones	up to 81 sones	RWS 
up to 20 dB	up to 19 dB	up to 20 dB	up to 19 dB	up to 19 dB	IS 
YES	YES	YES	YES	YES	FLOOR HEATING 
up to 0,074 m ² K/W	up to 0,05 m ² K/W	up to 0,074 m ² K/W	up to 0,05 m ² K/W	up to 0,05 m ² K/W	THERMAL INSULATION 
>150 m	>75 m				SD 

VINYL FLOORS

MULTIPROTEC VINYL FAMILY














	Multiprotec Vinyl Click	Multiprotec Vinyl Click Super Hardlay	Multiprotec Vinyl Click Antislip	Multiprotec Vinyl Click Acoustic
Logistic Parameters				
Thickness	1,4 mm	1,1 mm	1,6 mm	2,2 mm
Material	PUM+PET	PUM+PET	PUM+PET	PUM+PET
Form	ROLL	ROLL	ROLL	ROLL
Size [m] / Package [m ²]	8,5 x 1 / 8,5	9,0 x 1 / 9	8,5 x 1 / 8,5	7,0 x 1 / 7
Dimension of packge [mm]	155x155x1060	155x155x1060	155x155x1060	155x155x1060
Weight of package [kg]	12,6	10,6	14,3	13,02
	40	40	40	40
	340 m ²	360 m ²	340 m ²	320 m ²
	11 220 m ²	11 880 m ²	11 220 m ²	10 560 m ²
EAN	5905167776339	5905167846049	5905167721230	5905167846063
PROD. NO.	154235184504001011	15825400000000865	154235184504000037	154231201505000141

Technical Parameters

	PC	CLASS PC2 (1,2 mm)	CLASS PC1 (0,6 mm)	CLASS PC2 (1,4 mm)	CLASS PC2 (1,7 mm)
	CS	CLASS CS3 (400 kPa)	CLASS CS3 (700 kPa)	CLASS CS3 (400 kPa)	CLASS CS3 (300 kPa)
	CC	CLASS CC3 (70 kPa)	CLASS CC3 (100 kPa)	CLASS CC3 (60 kPa)	CLASS CC3 (50 kPa)
	DL	CLASS DL3 (>3 000 000 cycles)	CLASS DL3 (>3 500 000 cycles)	CLASS DL3 (>3 000 000 cycles)	CLASS DL3 (>3 000 000 cycles)
	RLB	CLASS RLB3 (≤1500 mm)	CLASS RLB2 (≤1100 mm)	CLASS RLB3 (≤1500 mm)	CLASS RLB2 (≤1100 mm)
	RWS	up to 58 sones	up to 62 sones	up to 58 sones	up to 58 sones
	IS	up to 16 dB	up to 14 dB	up to 16 dB	up to 18 dB
	FLOOR HEATING	YES	YES	YES	YES
	THERMAL INSULATION	up to 0,008 m ² K/W	up to 0,004 m ² K/W	up to 0,008 m ² K/W	up to 0,01 m ² K/W
	SD	>75 m	>75 m	>75 m	>75 m



SECURA VINYL FAMILY

Secura Vinyl Click	Secura Vinyl Click Smart Antislip	Secura Vinyl Click Black	
1,5 mm	1,5 mm	1,0 mm	Thickness
M-XPS+PET	M-XPS+PET	M-XPS+PET	Material
SMART	SMART	SMART	Form
5,3 x 1,18 / 6,25	5,3 x 1,18 / 6,25	5,3 x 1,18 / 6,25	Size [m] / Package [m ²]
1190x270x41	1190x270x41	1200x270x30	Dimension of package [mm]
1,81	1,88	1,5	Weight of package [kg]
63	63	78	
393,75 m ² / 787,5 m ²	393,75 m ² / 787,5 m ²	487,5 m ² / 975m ²	
25 200 m ²	25 200 m ²	31 200 m ²	
5905167816943	5905167816936	5905167816950	EAN
154231201505000150	154231201505000149	154231201505000151	PROD. NO.
CLASS PC2 (1,0 mm)	CLASS PC2 (1,0 mm)	CLASS PC1 (0,8 mm)	PC 
CLASS CS3 (400 kPa)	CLASS CS3 (400 kPa)	CLASS CS3 (400 kPa)	CS 
CLASS CC2 (40 kPa)	CLASS CC2 (40 kPa)	CLASS CC2 (40 kPa)	CC 
CLASS DL3 (>1 000 000 cycles)	CLASS DL3 (>1 000 000 cycles)	CLASS DL3 (>1 000 000 cycles)	DL 
CLASS RLB3 (≤1500 mm)	CLASS RLB3 (≤1500 mm)	CLASS RLB3 (≤1300 mm)	RLB 
up to 60 sones	up to 60 sones	up to 63 sones	RWS 
up to 21 dB 10 dB Δ _{lin}	up to 21 dB 10 dB Δ _{lin}	up to 18 dB	IS 
YES	YES	YES	FLOOR HEATING 
up to 0,04 m ² K/W	up to 0,04 m ² K/W	up to 0,03 m ² K/W	THERMAL INSULATION 
>150 m	>150 m	>75 m	SD 

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