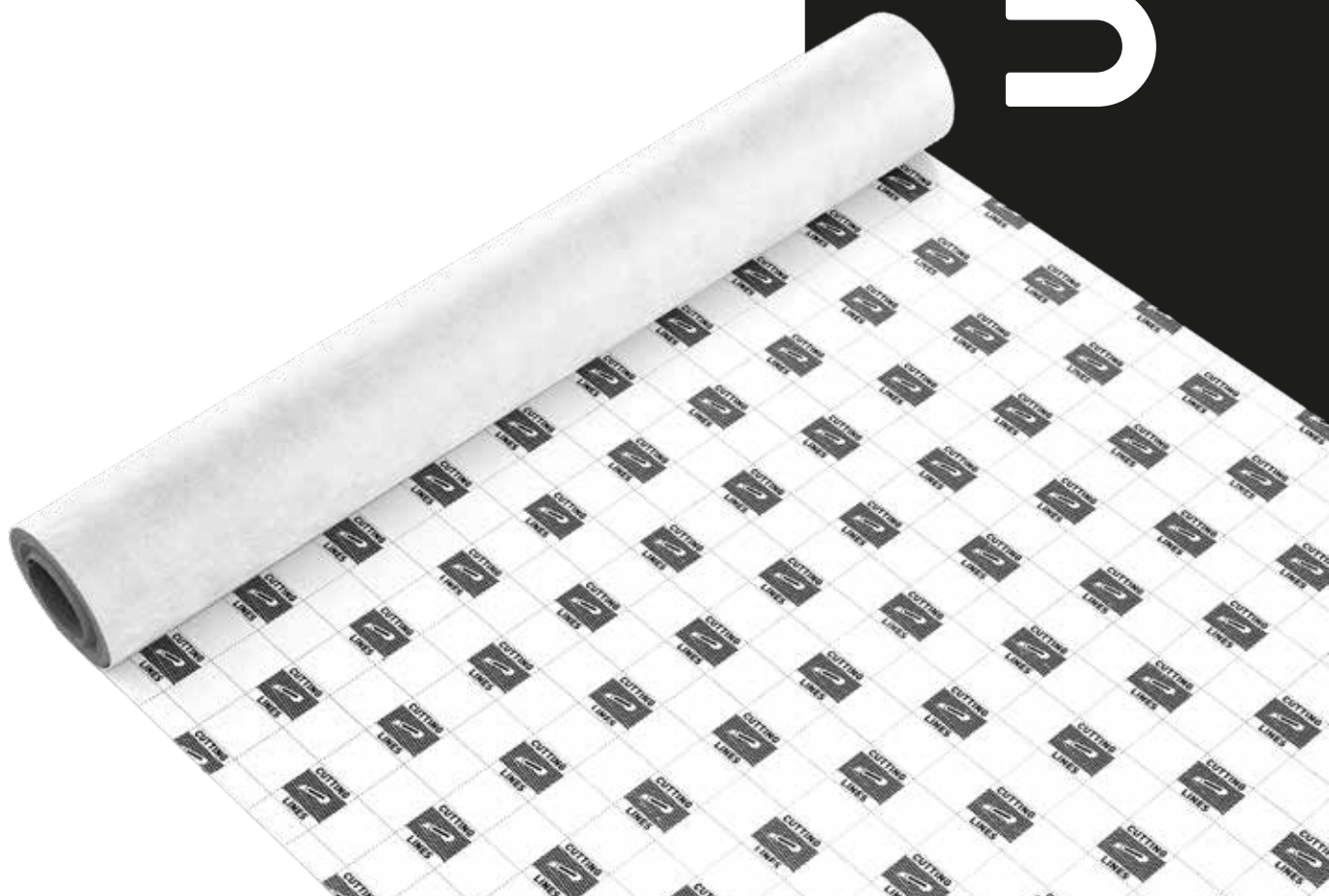


# UNDERLAYS



PART OF DECORA GROUP



**WE CREATE  
WE TEST**

**WE  
PRODUCE**

 **MADE IN EUROPE**



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. Our extensive research translates into new, innovative products and enhancements, ensuring our accessories and flooring systems meet the highest standards of functionality and quality.

## DESIGN

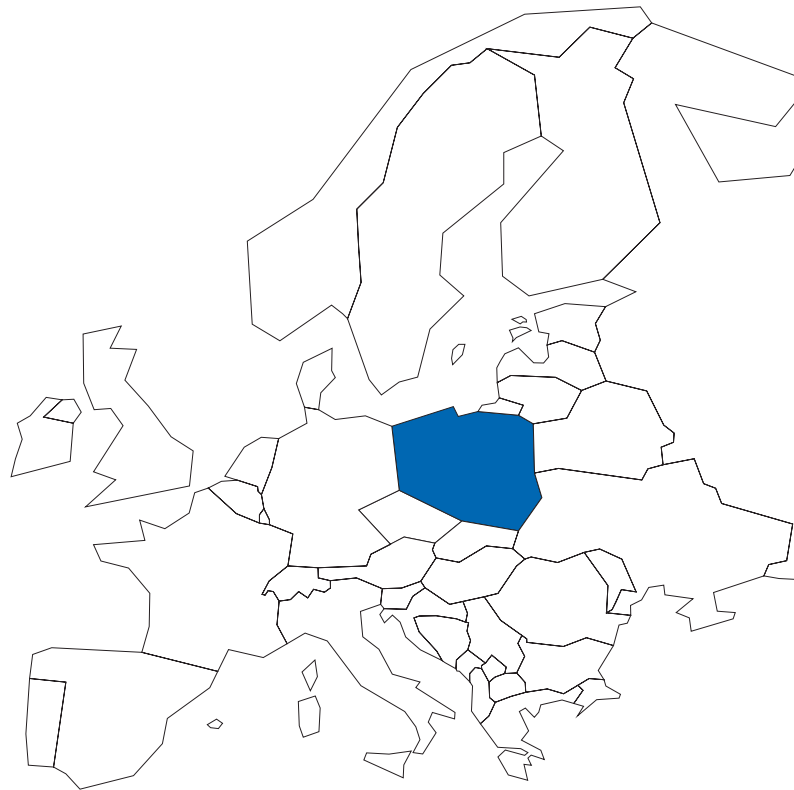
Dedicated to exceptional design, we annually review thousands of patterns and analyze trends, ensuring every product detail embodies modern sophistication. That's why we can create customer orientated solutions and stay relevant.

## INNOVATION

We are pushing the flooring industrie forwards for the more effective, ecological and durable solution. We offer advanced and innovative products.



**MADE IN EUROPE**





# ENERGY SAVING FLOORING SYSTEM

NOVELTY 2024

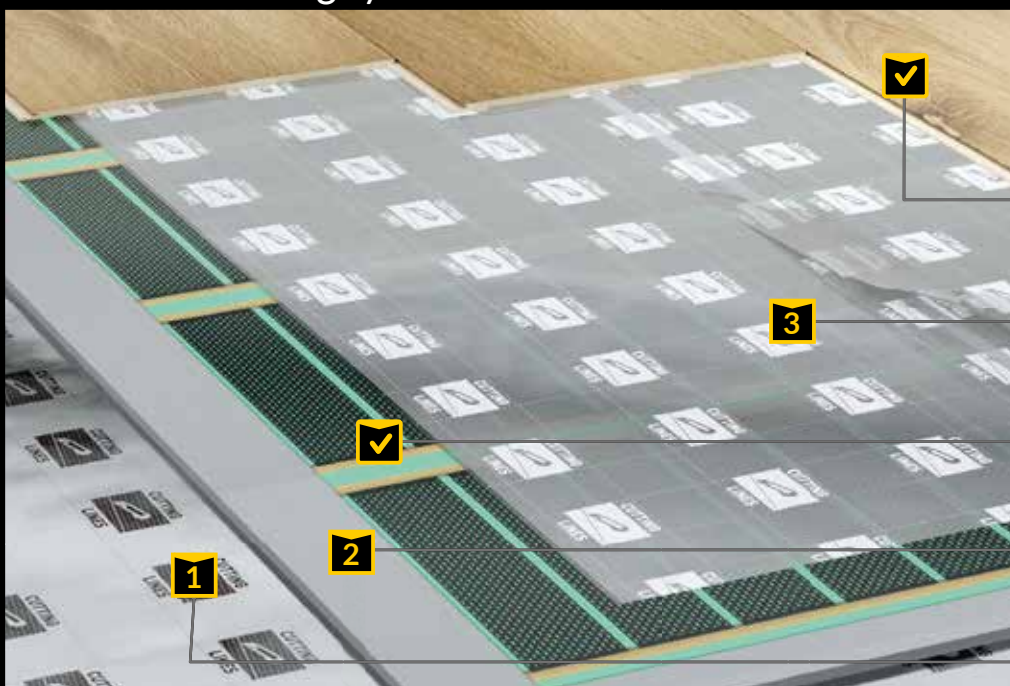
**NEW!**

The „**Energy Saving Flooring System**” is an innovative solution designed to work seamlessly with electric infrared heating films. This system encompasses two types of protective films, a 5 mm insulating underlay, and panels with a mineral core, which efficiently and rapidly distribute heat due to their exceptionally low thermal resistance. It’s an ideal choice for renovations, as it raises the floor level by only 10 mm including floor.

Integrated with photovoltaic panels, this system offers an efficient, eco-friendly, and cost-effective heating source. In our catalog, you’ll find three key components of the system: the two types of films and the underlay. The underlay is particularly notable for its durability (CS=500 kPa), excellent insulation (R=0.17 m<sup>2</sup>K/W), and 5 mm thickness, which accommodates the heating film cables and temperature sensor with ease.



Floor heating system installed without dust or mess, with a flooring warranty.



## ENERGY SAVING FLOORING SYSTEM

### ARBITON HD MINERAL CORE

Vinyl flooring with a mineral core (look for information on the flooring packaging).

### AQUAPROTEC HEATFILM 3in1

It protects against mechanical damage to heating foils and provides additional protection against moisture.

### CERTIFIED HEATING FOIL (max. 80 W)

Heating foil with Arbiton recommendation, e.g. HD-PRO HEATDECOR.

### SECURA HEAT VINYL CLICK 5 mm

Increases the heating efficiency of the film, high compressive strength - CS 500 kPa.

### AQUAPROTEC VAPOUR BARRIER

Vapour barrier foil (SD 150 m) protects against moisture, prevents the underlay from moving during installation.



# FLOATING FLOOR LAMINATE & NATURAL FLOORS

## 20 | **M - BASE FAMILY**

M-BASE HEAT  
M-BASE SOUND  
M-BASE GLUE  
M-BASE UNI  
M-BASE VINYL

## 22 | **MULTIPROTEC FAMILY**

MULTIPROTEC ABSOLUTE 3IN1  
MULTIPROTEC ACOUSTIC 3IN1  
MULTIPROTEC 1000 3IN1

## 24 | **OPTIMA FAMILY**

OPTIMA EXPERT AQUASTOP  
OPTIMA THERMO AQUASTOP  
OPTIMA AQUASTOP  
OPTIMA MAX

## 26 | **SECURA SMART FAMILY**

SECURA THERMO AQUASTOP SMART  
SECURA AQUASTOP SMART  
SECURA EXTRA AQUASTOP SMART  
SECURA MAX AQUASTOP SMART  
SECURA MAX SMART

## 28 | **SECURA ROLLS FAMILY**

SECURA AQUASTOP FLEX  
SECURA FLEX  
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SECURA LIGHT FLEX  
SECURA THERMO

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# VINYL FLOORS

## 34 | **MULTIPROTEC VINYL FAMILY**

MULTIPROTEC VINYL CLICK  
MULTIPROTEC VINYL CLICK SUPER HARDLAY  
MULTIPROTEC VINYL ACOUSTIC

## 36 | **SECURA VINYL FAMILY**

SECURA VINYL CLICK  
SECURA VINYL CLICK ANTISLIP  
SECURA VINYL CLICK HARDLAY **NEW!**

## 38 | **ENERGY SAVING FLOORING SYSTEM**

AQUAPROTEC VAPOUR BARRIER **NEW!**  
SECURA HEAT VINYL CLICK **NEW!**  
AQUAPROTEC HEATFILM **NEW!**

# 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

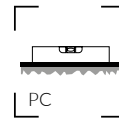
## ARBITON UNDERLAYS MEET REQUIREMENTS OF EU NORM EN16354

**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.

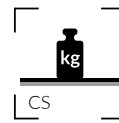
Among these parameters, three of them apply to the durability of the floor.

Norm refers to:



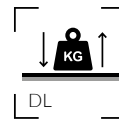
### **PUNCTUAL CONFORMABILITY (PC)**

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).

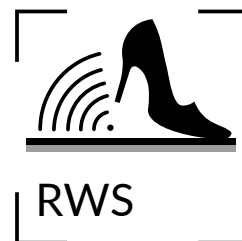


**Highest quality of our products comes from many years of research, development and experience as the manufacturer**



# PERFORMANCE

## NEW STANDARD OF RWS COMMUNICATION

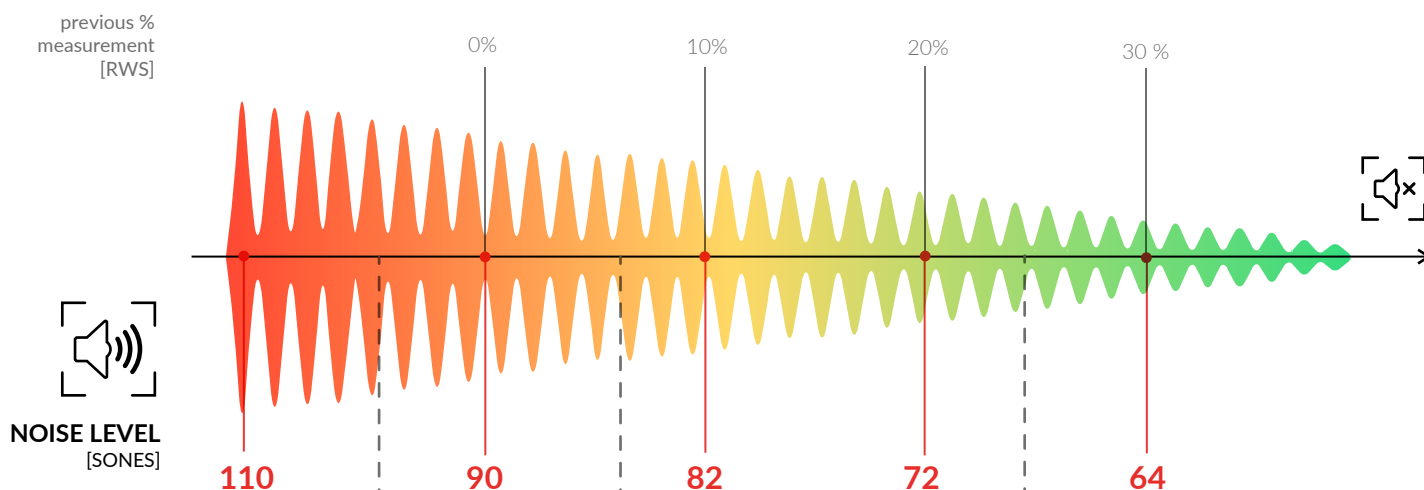


RWS parameter demonstrates the difference in loudness of steps resonating on the floor. Starting from 2023, as EPLF recommends, we will describe the RWS parameter in sones, instead of percents.

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	$\geq 10$ kPa	$\geq 60$ kPa
		COMPRESSIVE CREEP RESISTANCE		Sustained static load	The higher value allow placed heavier furniture on the flooring system	$\geq 2$ kPa	$\geq 20$ 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
	ACOUSTIC COMFORT	IMPACT SOUND REDUCTION		Transferred sound reduction	Sounds transferred to area below are muffled	$\geq 14$ dB	$\geq 18$ 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 <sup>2</sup> 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 <sup>2</sup> K/W	
	SUBSTRATE STRUCTURE	WATER VAPOUR RESISTANCE		Protection against residual moisture in substrate	Avoiding damp related damages	$\geq 75$ 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 CO<sub>2</sub> 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 CO<sub>2</sub> 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

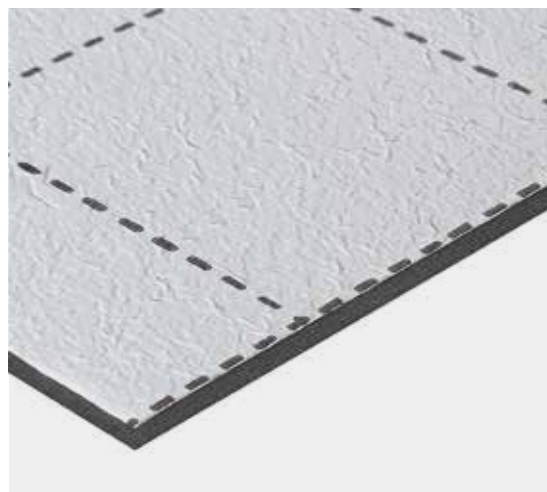
We collect, purchase, and process plastic waste every year. Thanks to us, it does not pollute the natural environment.

#### ✔ ~ 11T CO<sub>2</sub>

Estimated annual CO<sub>2</sub> 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.

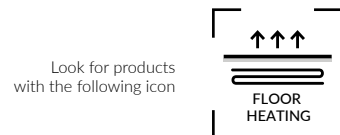


# CHOOSE THE RIGHT UNDERLAY

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

## FLOOR HEATING

Do you fit the floor with underfloor heating system?



## THERMAL COMFORT

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



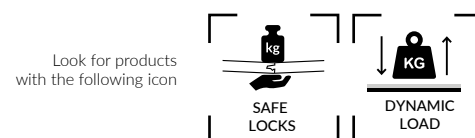
## ACOUSTIC COMFORT

Do you want to improve acoustic comfort?



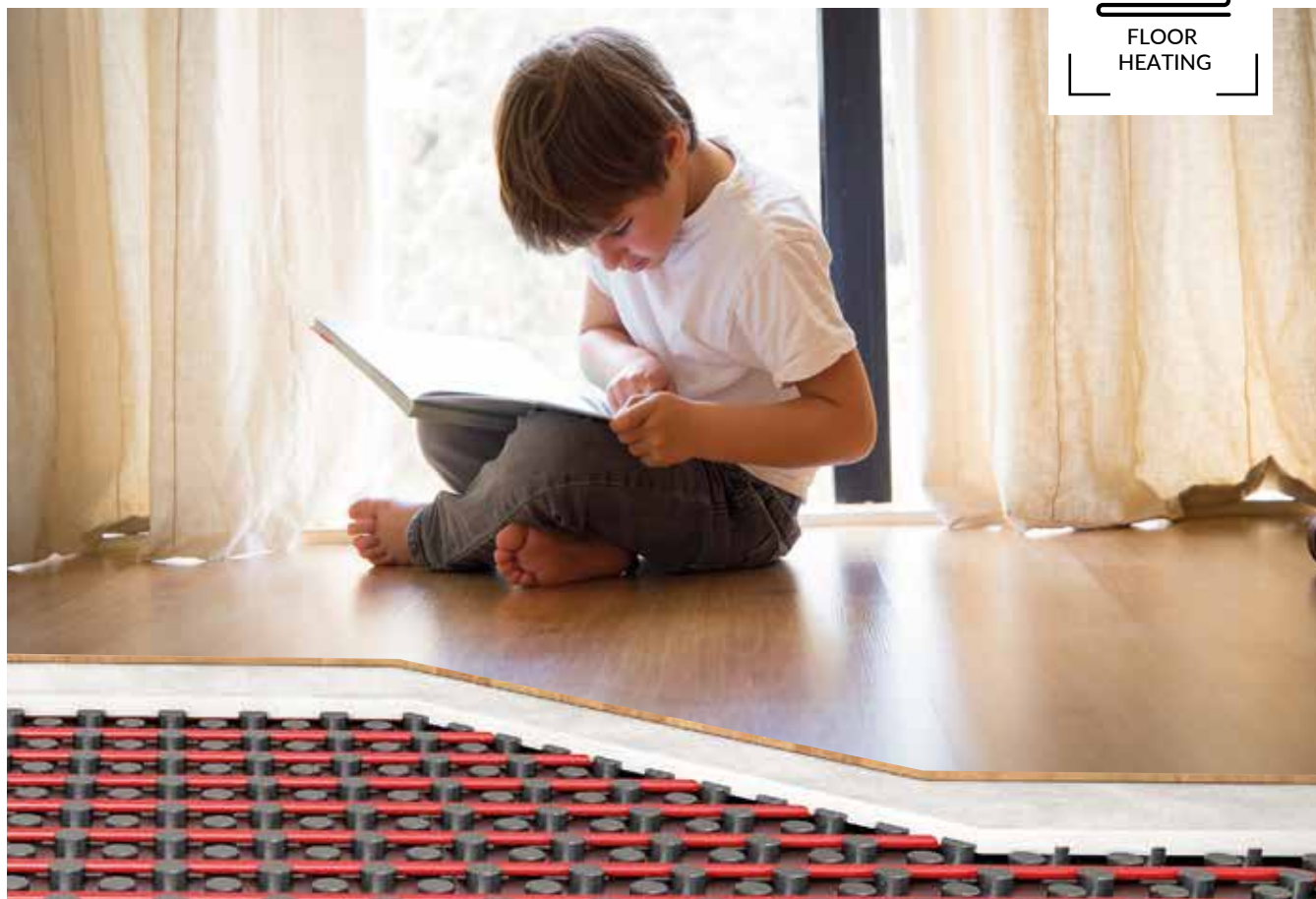
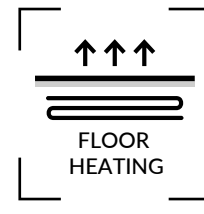
## FLOOR DURABILITY

Do you fit the floor in high traffic area?





# FLOOR HEATING



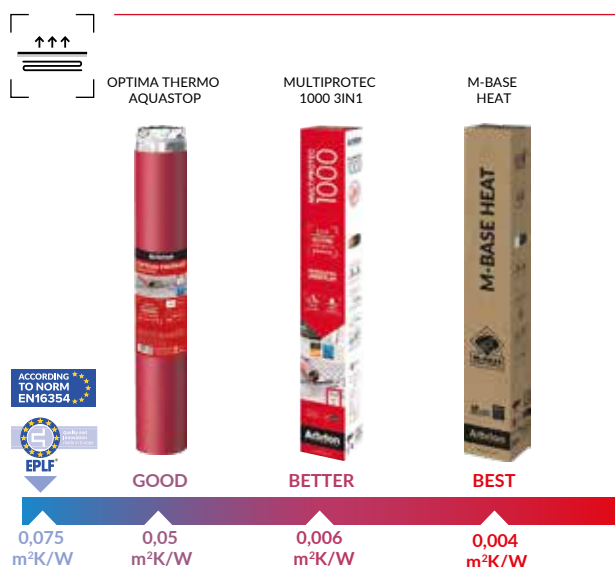
The choice regarding which floor type will be used is done at the very beginning when planning an investment. The thermal resistance is the factor that should be taken into consideration. correctly selected underlay will reduce resistance of the system and allow for warm air to pass into the area easier.

The thermal resistance of a flooring system (floor covering + underlay) should not exceed  $0,15 \text{ m}^2\text{K/W}$  in accordance with EN 16345 and DIN EN1264.

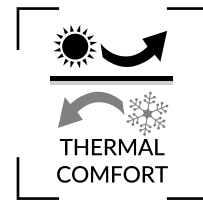
The lower the thermal resistance of the flooring, the higher the efficiency of the underfloor heating. To determine the thermal resistance of a flooring system, simply add the thermal resistance values of the floor covering and the underlay.

For example, laminate flooring of 8 mm thickness has a thermal resistance of  $\sim 0,08 \text{ m}^2\text{K/W}$ . 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  $0,004 \text{ m}^2\text{K/W}$ . 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

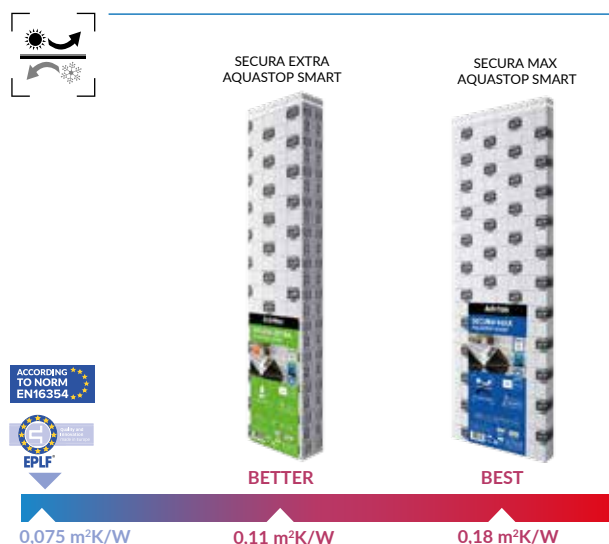


The higher the R value, the better the flooring system will be suited for use on an uninsulated subfloor.

## 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.



# 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 10 dB).





# FLOOR DURABILITY



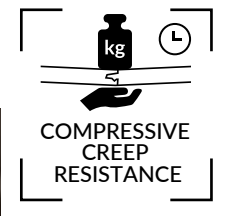
## WILL THE FLOOR BE USED IN A HIGH-TRAFFIC ROOM?

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.

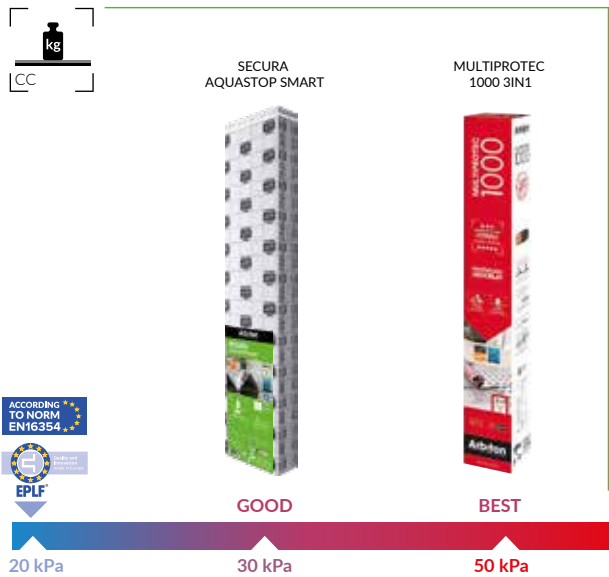


# COMPRESSIVE CREEP RESISTANCE



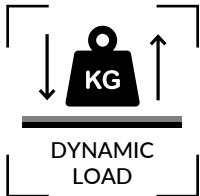
When a floor with an underlay is exposed to a long-term static load (e.g. by heavy furniture), all advantages in technical performance of the underlay, such as acoustic and thermal insulation, leveling ability, etc., may be significantly reduced.

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.\***



OPTIMA EXPERT  
AQUASTOP

MULTIPROTEC  
1000 3IN1



BETTER

BEST



>10 000 cycles

>100 000 cycles

>2 500 000 cycles

\*Refers to PE product with density below 30 kg/m<sup>3</sup>

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

\*\* in case of underlay for laminate and natural floors



# M-BASE FAMILY



[www.blauer-engel.de/uz156](http://www.blauer-engel.de/uz156)

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 <sup>2</sup>

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 sones
FLOOR HEATING	YES
THERMAL COMFORT	<0,004 m <sup>2</sup> K/W
SD	>75 m
EAN	5905167847053



## M-BASE UNI



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

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 <sup>2</sup> K/W
SD	>75 m
EAN	5905167852743

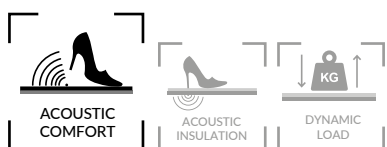
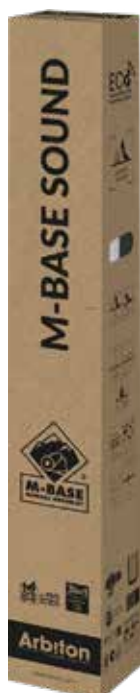
## M-BASE VINYL FOR VINYL FLOOR



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

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 <sup>2</sup> K/W
SD	>75 m
EAN	5905167852750

## M-BASE SOUND



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

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 <sup>2</sup> K/W
SD	>75 m
EAN	5905167847060

## M-BASE GLUE



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

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 <sup>2</sup> K/W
SD	>75 m
EAN	5905167847077

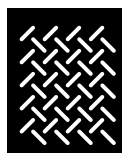
# MULTIPROTEC FAMILY



**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.

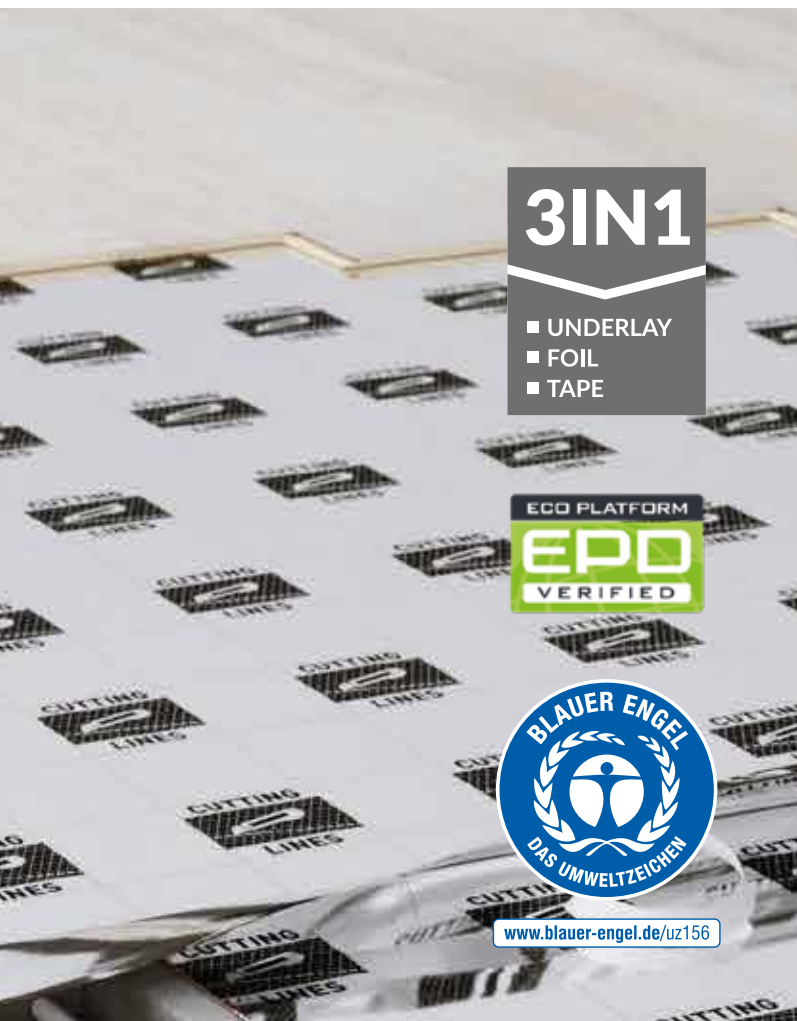
**Multiprotec Absolute** ensures highest acoustic parameters among PUM underlays.



## FLEECE

Faster and more convenient installation thanks to better grip to subfloor





# 3IN1

- UNDERLAY
- FOIL
- TAPE



[www.blauer-engel.de/uz156](http://www.blauer-engel.de/uz156)

## MULTIPROTEC ACOUSTIC 3IN1



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

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 <sup>2</sup> K/W
SD	>150 m
EAN	5905167816851

## MULTIPROTEC 1000 3IN1



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

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 <sup>2</sup> K/W
SD	>150 m
EAN	5905167816844

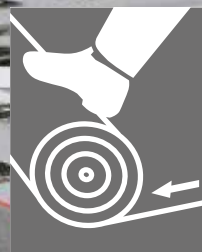
## MULTIPROTEC ABSOLUTE 3IN1



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

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 <sup>2</sup> 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

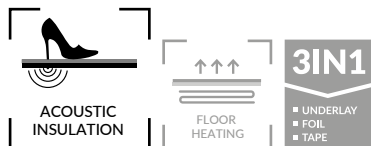
– easy to unfold roll with integrated AQUASTOP damp proof membrane with overlap and tape.

### > Durable and light thanks

to high density polyethylene.



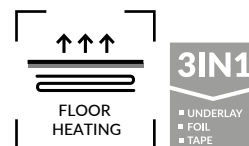
## OPTIMA EXPERT AQUASTOP



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

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 <sup>2</sup> K/W
SD	>150 m
EAN	5905167778784

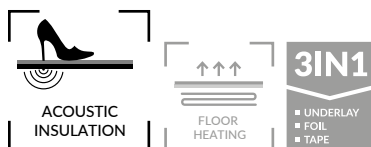
## OPTIMA THERMO AQUASTOP



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

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 <sup>2</sup> K/W
SD	>150 m
EAN	5905167778791

## OPTIMA AQUASTOP



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

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 <sup>2</sup> K/W
SD	>150 m
EAN	5905167778777

## OPTIMA MAX



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

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 <sup>2</sup> K/W
SD	-
EAN	5905167779316

# SECURA SMART FAMILY



[www.blauer-engel.de/uz156](http://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

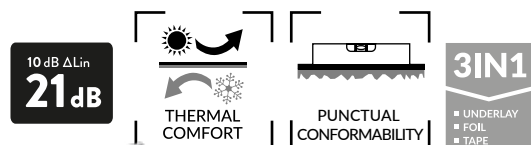
3IN1 underlay: Underlay has a firm and stable connection.

## EASY MERCHANDISING for DIY

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



## SECURA MAX AQUASTOP SMART



MATERIAL	XPS+PET
THICKNESS	5,0 mm
FORM	SMART / 5,5 m²

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 m²K/W
SD	>150 m
EAN	5905167734728

## SECURA EXTRA AQUASTOP SMART



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

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 <sup>2</sup> K/W
SD	>150 m
EAN	5905167807262

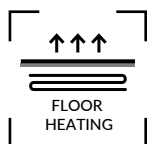
## SECURA AQUASTOP SMART



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

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 <sup>2</sup> K/W
SD	>150 m
EAN	5905167807842

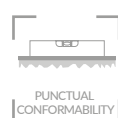
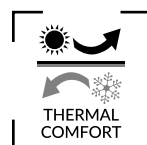
## SECURA THERMO AQUASTOP SMART



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

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 <sup>2</sup> K/W
SD	>75 m
EAN	5905167826942

## SECURA MAX SMART



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

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 <sup>2</sup> 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

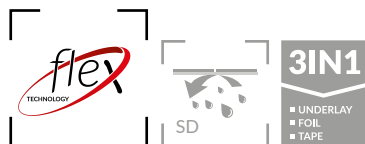


MATERIAL	XPS+PET
THICKNESS	2,0 mm
FORM	ROLL / 15 m <sup>2</sup>

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 <sup>2</sup> K/W
SD	>150 m
EAN	5905167826690



## SECURA LIGHT AQUASTOP FLEX



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

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 <sup>2</sup> K/W
SD	>75 m
EAN	5905167826706

## SECURA FLEX



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

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 <sup>2</sup> K/W
SD	-
EAN	5905167826713

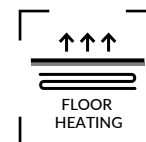
## SECURA LIGHT FLEX



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

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 <sup>2</sup> K/W
SD	-
EAN	5905167826720

## SECURA THERMO



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

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 <sup>2</sup> 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





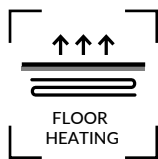


# CHOOSE ADEQUATE UNDERLAY FOR YOUR VINYL FLOOR (LVT & RIGID)



## FLOOR DURABILITY

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



## FLOOR HEATING

For the most efficient floor heating, you should use an underlay with the lowest thermal resistance parameter  $R$ . MMFA recommends  $R < 0,15 \text{ m}^2\text{K/W}$  for floor system.



## WALKING SOUND REDUCTION

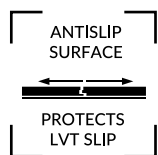
Walking sound is understood as the noise that is spread across the room while interacting with floor covering (e.g. when walking over it, playing on it, etc.). This noise is measured in SONES. A 1 kHz tone at 40 dB corresponds to 1 sone. Loudness is a linear measure, twice as high result in sones will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

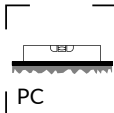
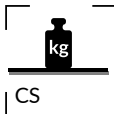
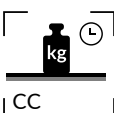
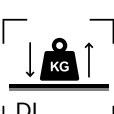


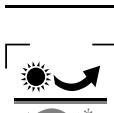
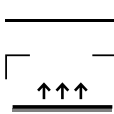



ANTISLIP

NO ANTISLIP



# 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
		DYNAMIC LOAD		Resistance of the underlay against long-term dynamic load	Resistance to intensive usage	≥10 000 cycles	≥100 000 cycles
	ACOUSTIC COMFORT	IMPACT SOUND REDUCTION		Transferred sound reduction	Sounds transferred to area below are muffled	≥10dB	≥18dB
		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	0,15 cooling
	SUBSTRATE STRUCTURE	WATER VAPOUR RESISTANCE		Protection against residual moisture in substrate	Avoiding damp related damages	≥75 m	
	ADDITIONAL PARAMETERS - MMFA RECOMMENDATION						

\*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



[www.blauer-engel.de/uz156](http://www.blauer-engel.de/uz156)

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.



> Fire resistance  
class Bfl-s1



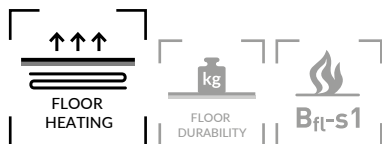
> Ideal solution for underfloor heating  
– lowest thermal resistance



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

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

## MULTIPROTEC VINYL CLICK



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

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 <sup>2</sup> K/W
SD	>75 m
EAN	5905167776339

## MULTIPROTEC VINYL CLICK SUPER HARDLAY



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

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 <sup>2</sup> K/W
SD	>75 m
EAN	5905167846049

## MULTIPROTEC VINYL CLICK ACOUSTIC

10 dB ΔLin  
**21 dB**



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

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	< 21 dB
RWS	58 sonos
FLOOR HEATING	YES
THERMAL COMFORT	<0,01 m <sup>2</sup> 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 m<sup>2</sup> per package.



## SECURA VINYL CLICK

10 dB  $\Delta L_{in}$   
**21dB**



MATERIAL	XPS+PET
THICKNESS	1,5 mm
FORM	SMART / 6,25 m <sup>2</sup>

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 $\Delta L_{in}$
RWS	60 sones
FLOOR HEATING	YES
THERMAL COMFORT	<0,04 m <sup>2</sup> K/W
SD	>150 m
EAN	5905167816943

## SECURA VINYL CLICK HARDLAY

**NEW!**

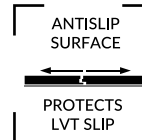


MATERIAL	XPS+PET
THICKNESS	1,0 mm
FORM	SMART / 6,25 m <sup>2</sup>

PC	CLASS PC1 (<0,8 mm)
CS	CLASS CS3 (550 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 <sup>2</sup> K/W
SD	>75 m
EAN	5905167873779

## SECURA VINYL CLICK ANTISLIP

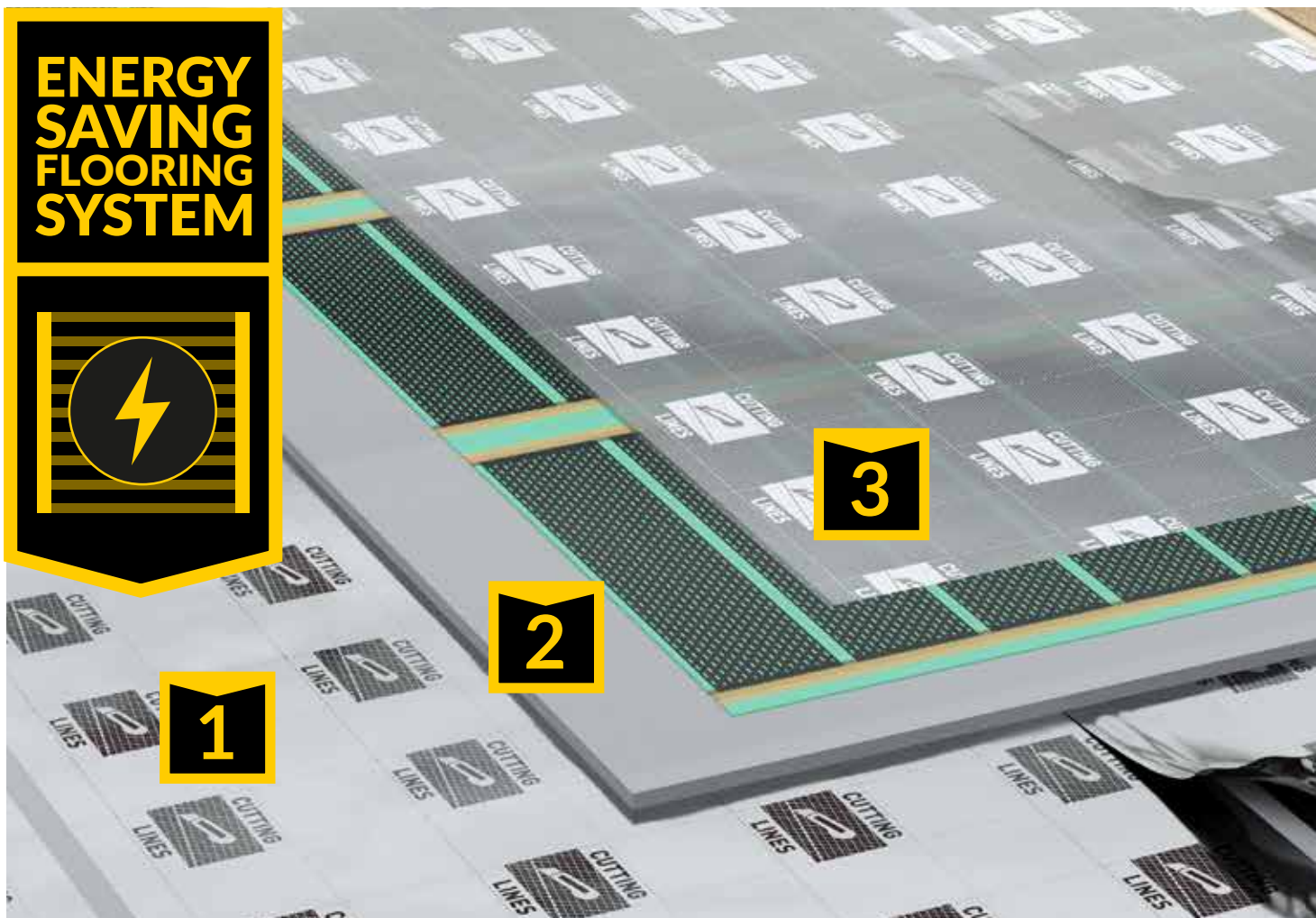
10 dB  $\Delta L_{in}$   
**21dB**



MATERIAL	XPS+PET
THICKNESS	1,5 mm
FORM	SMART / 6,25 m <sup>2</sup>

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 $\Delta L_{in}$
RWS	60 sones
FLOOR HEATING	YES
THERMAL COMFORT	<0,04 m <sup>2</sup> K/W
SD	>150 m
EAN	5905167816936





## STEP 1

Vapour barrier foil (SD150m) protects against moisture and features a system of adhesive tapes that secure against movement of the underlay

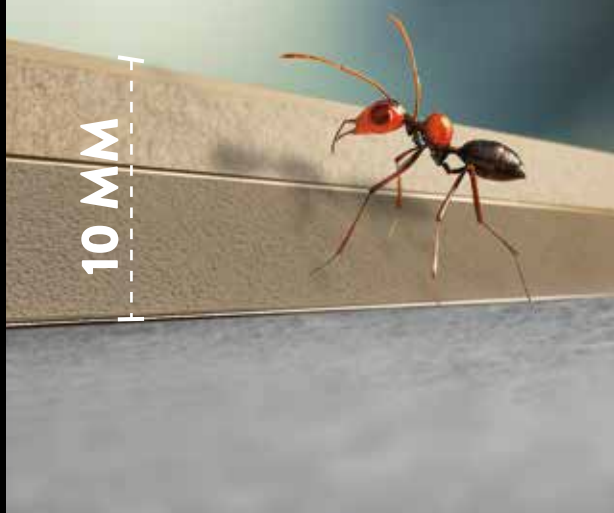
## STEP 2

It enhances heating efficiency due to its high thermal insulation parameter; high compressive strength CS=500 kPa allows for the use of click vinyl, and thanks to its 5 mm thickness, it's possible to conceal cables connecting the heating films.

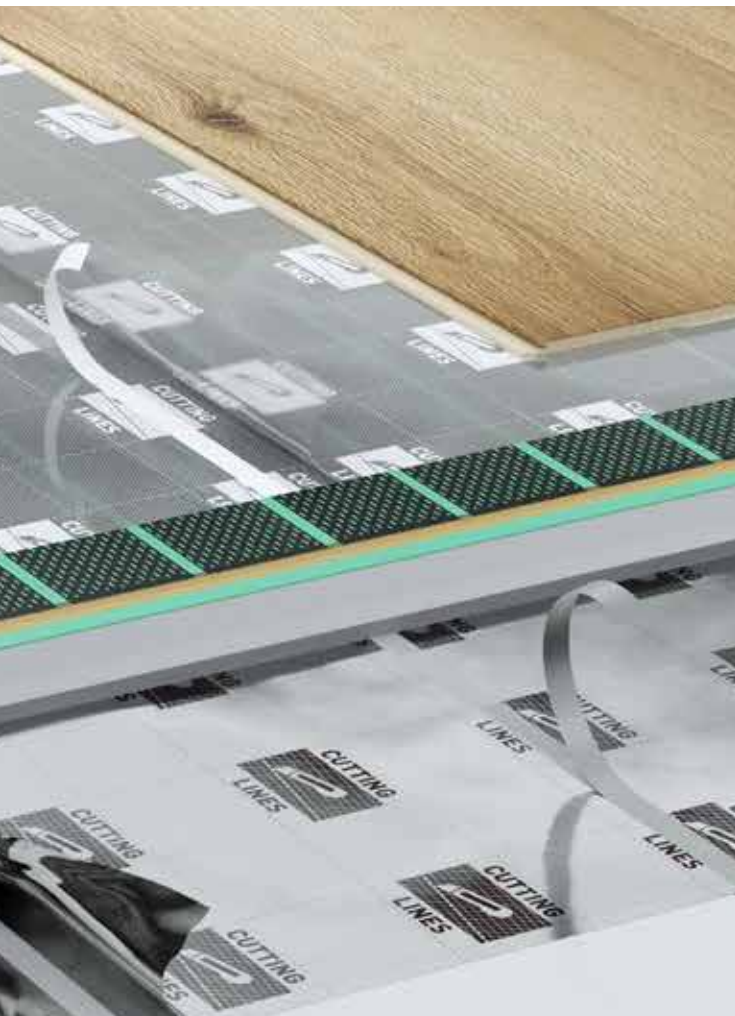
## STEP 3

Protects the heating film from mechanical damage thanks to the soft non-woven fabric, additionally secures the system against moisture penetration from above. Easy connection due to the integrated tape.

THE TOTAL THICKNESS OF THE **COMPLETE SYSTEM** IS **10 MM** (including floor).







**NEW!**

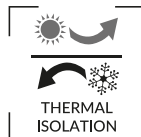


## AQUAPROTEC VAPOUR BARRIER



MATERIAL	-
THICKNESS	0,18 mm
FORM	ROLL

SIZE	10 m <sup>2</sup>
SD	<150 m
EAN	5905167875223



**NEW!**

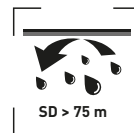
## SECURA HEAT VINYL CLICK



MATERIAL	HDXPS
THICKNESS	5 mm
FORM	PLATE / 5,76 m <sup>2</sup>

PC	CLASS PC3
CS	CLASS CS3 (500 kPa)
CC	CLASS CC2 (25 kPa)
DL	CLASS DL3 (>500 000 CYCLES)
RLB	-
IS	<18 dB
RWS	62 sones
FLOOR HEATING	YES
THERMAL COMFORT	<0,17 m <sup>2</sup> K/w
SD	-
EAN	5905167875216

**NEW!**



## AQUAPROTEC HEATFILM



MATERIAL	-
THICKNESS	0,18 mm
FORM	ROLL

SIZE	10 m <sup>2</sup>
SD	>75 m
EAN	5905167875230

# 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 <sup>2</sup> (50,0 m x 2,0 m)
SD	>75 m
EAN	5907584870584

## DAMP PROOF FOIL



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

MATERIAL	PEHD
THICKNESS	0,2 mm
FORM	PACK

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

## ALU TAPE



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




MATERIAL	-
THICKNESS	0,05 mm
FORM	ROLL

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
<b>Logistic Parameters</b>						
Thickness	1,5 mm	2,4 mm	2,1 mm	2 mm	1,3 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 <sup>2</sup> ]	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 <sup>2</sup>	240 m <sup>2</sup>	280 m <sup>2</sup>	320 m <sup>2</sup>	360 m <sup>2</sup>	320 m <sup>2</sup>
	10 560 m <sup>2</sup>	7 920 m <sup>2</sup>	9 240 m <sup>2</sup>	10 560 m <sup>2</sup>	11 880 m <sup>2</sup>	10 560 m <sup>2</sup>
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 <sup>2</sup> K/W	up to 0,009 m <sup>2</sup> K/W	up to 0,01 m <sup>2</sup> K/W	up to 0,007 m <sup>2</sup> K/W	up to 0,004 m <sup>2</sup> K/W	up to 0,006 m <sup>2</sup> 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 [m²]
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 m²	200 m²	300 m²/ 600 m²	480 m²/ 960 m²	300 m²/ 600 m²	300 m²/ 600 m²	
10 560 m²	6 600 m²	19 800 m²	31 680 m²	19 800 m²	19 800 m²	
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 m²K/W	up to 0,01 m²K/W	up to 0,05 m²K/W	up to 0,03 m²K/W	up to 0,04 m²K/W	up to 0,04 m²K/W	THERMAL INSULATION
>150 m	>150 m	>150 m	>150 m	>150 m		SD













# LAMINATE FLOORS

## SECURA SMART FAMILY

### Logistic Parameters

	Secura Max Aquistop Smart	Secura Extra Aquistop Smart	Secura Aquistop Smart	Secura Thermo Aquistop Smart	Secura Max Smart
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 <sup>2</sup> ]	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 <sup>2</sup> / 352 m <sup>2</sup>	288 m <sup>2</sup> / 576 m <sup>2</sup>	252 m <sup>2</sup> / 504 m <sup>2</sup>	504 m <sup>2</sup> / 1008 m <sup>2</sup>	176 m <sup>2</sup> / 352 m <sup>2</sup>
	11 264 m <sup>2</sup>	18 432 m <sup>2</sup>	24 192 m <sup>2</sup>	32 256 m <sup>2</sup>	11 264 m <sup>2</sup>
EAN	5905167734728	5905167807262	5905167807842	5905167826942	5905167826935
PROD. NO.	154235184504000070	158254000000000417	154235184504000078	1542312015050000805	1542312015050000804

### 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 <sup>2</sup> K/W	up to 0,11 m <sup>2</sup> K/W	up to 0,08 m <sup>2</sup> K/W	up to 0,05 m <sup>2</sup> K/W	up to 0,18 m <sup>2</sup> 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 [m²]
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 m² / 720 m²	450 m² / 900 m²	396 m² / 792 m²	480 m² / 960 m²	396 m² / 792 m²	
23 040 m²	28 800 m²	25 344 m²	30 720 m²	25 344 m²	
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 m²K/W	up to 0,05 m²K/W	up to 0,074 m²K/W	up to 0,05 m²K/W	up to 0,05 m²K/W	THERMAL INSULATION
>150 m	>75 m				SD

# VINYL FLOORS

## MULTIPROTEC VINYL FAMILY

	Multiprotec Vinyl Click	Multiprotec Vinyl Click Super Hardlay	Multiprotec Vinyl Click Acoustic
<b>Logistic Parameters</b>			
Thickness	1,4 mm	1,1 mm	2,2 mm
Material	PUM+PET	PUM+PET	PUM+PET
Form	ROLL	ROLL	ROLL
Size [m] / Package [m²]	8,5 x 1 / 8,5	9,0 x 1 / 9	7,0 x 1 / 7
Dimension of packge [mm]	155x155x1060	155x155x1060	155x155x1060
Weight of package [kg]	12,6	10,6	13,02
	40	40	40
	340 m²	360 m²	320 m²
	11 220 m²	11 880 m²	10 560 m²
EAN	5905167776339	5905167846049	5905167846063
PROD. NO.	154235184504001011	15825400000000865	154231201505000141

## Technical Parameters

	PC	CLASS PC2 (1,2 mm)	CLASS PC1 (0,6 mm)	CLASS PC2 (1,7 mm)
	CS	CLASS CS3 (400 kPa)	CLASS CS3 (700 kPa)	CLASS CS3 (300 kPa)
	CC	CLASS CC3 (70 kPa)	CLASS CC3 (100 kPa)	CLASS CC3 (50 kPa)
	DL	CLASS DL3 (>3 000 000 cycles)	CLASS DL3 (>3 500 000 cycles)	CLASS DL3 (>3 000 000 cycles)
	RLB	CLASS RLB3 (≤1500 mm)	CLASS RLB2 (≤1100 mm)	CLASS RLB2 (≤1100 mm)
	RWS	up to 58 sones	up to 62 sones	up to 58 sones
	IS	up to 16 dB	up to 14 dB	up to 21 dB
	FLOOR HEATING	YES	YES	YES
	THERMAL INSULATION	up to 0,008 m²K/W	up to 0,004 m²K/W	up to 0,01 m²K/W
	SD	>75 m	>75 m	>75 m



# SECURA VINYL FAMILY

Secura Vinyl Click	Secura Vinyl Click Smart Antislip	Secura Vinyl Click Hardlay	Secura Heat Vinyl Click	
1,5 mm	1,5 mm	1,0 mm	5,00 mm	Thickness
XPS+PET	XPS+PET	XPS+PET	HDXPS	Material
SMART	SMART	SMART	PLATE	Form
5,3 x 1,18 / 6,25	5,3 x 1,18 / 6,25	5,3 x 1,18 / 6,25	1,2 x 0,6 / 5,76	Size [m] / Package [m²]
1190x270x41	1190x270x41	1200x270x30	1200x600x40	Dimension of package [mm]
1,81	1,88	1,5	1,18	Weight of package [kg]
63	63	78	36	
393,75 m² / 787,5 m²	393,75 m² / 787,5 m²	487,5 m² / 975m²	207,36 m² / 414,72 m²	
25 200 m²	25 200 m²	31 200 m²	6 635 m²	
5905167816943	5905167816936	5905167873779	5905167875216	EAN
154231201505000150	154231201505000149	158254000000002443	158254000000002487	PROD. NO.
CLASS PC2 (1,0 mm)	CLASS PC2 (1,0 mm)	CLASS PC1 (0,8 mm)	CLASS PC3 (3,0 mm)	PC
CLASS CS3 (400 kPa)	CLASS CS3 (400 kPa)	CLASS CS3 (550 kPa)	CLASS CS3 (500 kPa)	CS
CLASS CC2 (40 kPa)	CLASS CC2 (40 kPa)	CLASS CC2 (40 kPa)	CLASS CC2 (25 kPa)	CC
CLASS DL3 (>1 000 000 cycles)	CLASS DL3 (>1 000 000 cycles)	CLASS DL3 (>1 000 000 cycles)	CLASS DL3 (> 500 000 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	up to 62 sones	RWS
up to 21 dB 10 dB Δ <sub>lin</sub>	up to 21 dB 10 dB Δ <sub>lin</sub>	up to 18 dB	up to 18 dB	IS
YES	YES	YES	YES	FLOOR HEATING
up to 0,04 m²K/W	up to 0,04 m²K/W	up to 0,03 m²K/W	up to 0,17 m²K/W	THERMAL INSULATION
>150 m	>150 m	>75 m	-	SD



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