



2022



[www.arbiton.com](http://www.arbiton.com)

# UNDERLAYS

MORE THAN...  
JUST UNDERLAYS



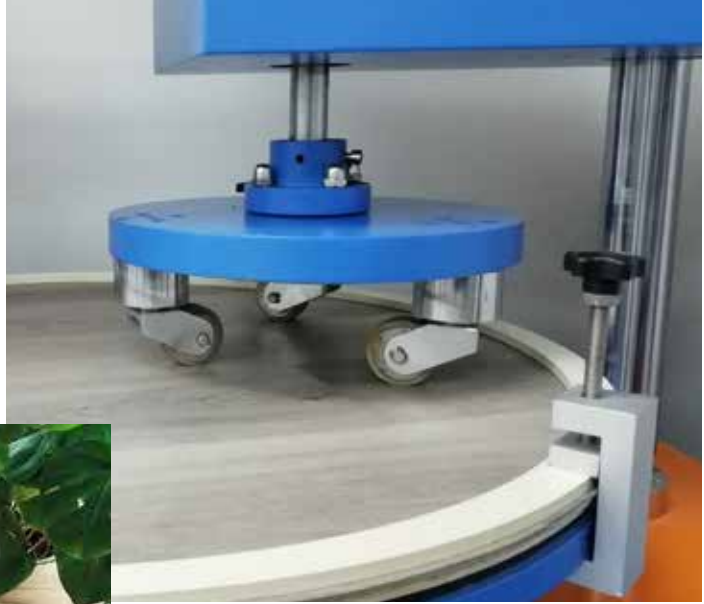
**WE CREATE**  
**WE TEST**  
**WE PRODUCE**

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.

**WE TRY HARDER, WE ARE  
THE FLOOR EXPERT**



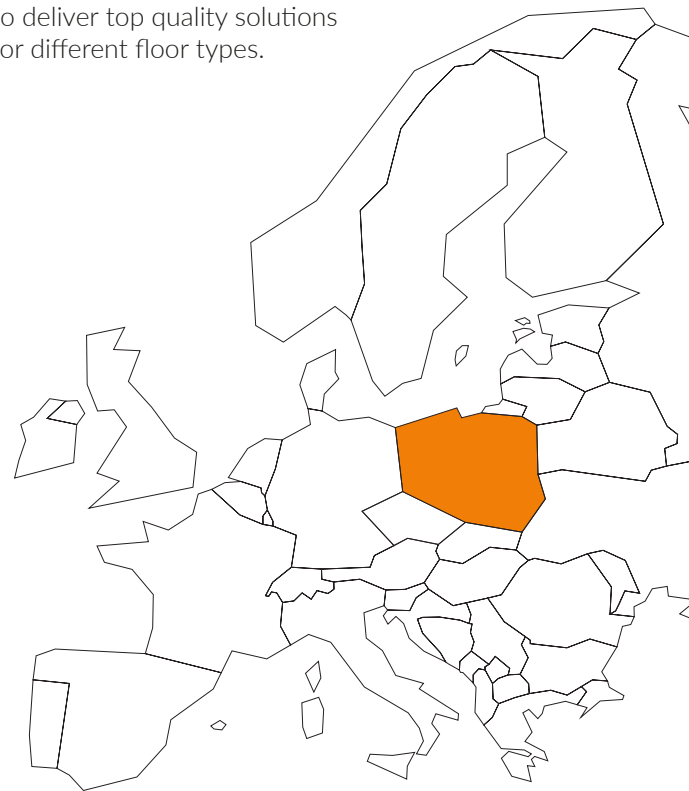


## TECHNOLOGY

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.



## MANUFACTURE

We are an European leader in the production of floor accessories. Our technological development allows us to offer great portfolio of products in various technologies.



# UNDERLAYS FOR ALL TYPES OF FLOORS

ACCORDING TO NORM EN16354



PERFORMANCE

ENVIRONMENT

INSTALLATION

CUSTOMER  
- CENTRIC APPROACH



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



BEING A MARKET LEADER MEANS CONSTANTLY BEING CHALLENGED FROM A COMPETITION AND THAT IS THE REASON WE TRY HARDER AND CONSTANTLY PUSH TOWARDS BETTER SOLUTIONS. OUR INHOUSE LABORATORY IS ENORMOUS ASSET WHICH BRINGS CRUCIAL DATA FOR REENGINEERING OUR PRODUCTS AND SETS THE TRENDS IN FLOORING.

WE ARE THE FIRST MANUFACTURER OFFERING PROFESSIONAL 3IN1 SOLUTIONS IN EACH MATERIAL WE USE FOR PRODUCTION FROM XPS, HDPE AND PUM INTEGRATING UNDERLAYMENT, DAMP PROOF MEMBRANE AND ADHESIVE TAPE IN ONE PRODUCT.

OUR R&D AND QUALITY CONTROL DEPARTMENTS NOT ONLY CONSTANTLY MONITORS ALL THE PRODUCT INGREDIENTS AND THE FINISHED MERCHANDISE BUT ALSO REDESIGNS OUR INTERNAL PROCESSES TO INCREASE WORK EFFICIENCY.

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.

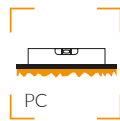
# ARBITON UNDERLAYS MEET REQUIREMENTS OF EU NORM EN16354

**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:



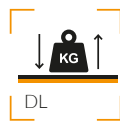
## **PUNCTUAL CONFORMABILITY (PC)**

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



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

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. The Blue Angel label is known from it's credibility and competence and its objective criteria.

NEW! M-BASE

# BRAND NEW! M-BASE



## NATURAL, MINERAL BASED UNDERLAYS FOR NATURAL FLOOR

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 underlay 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.

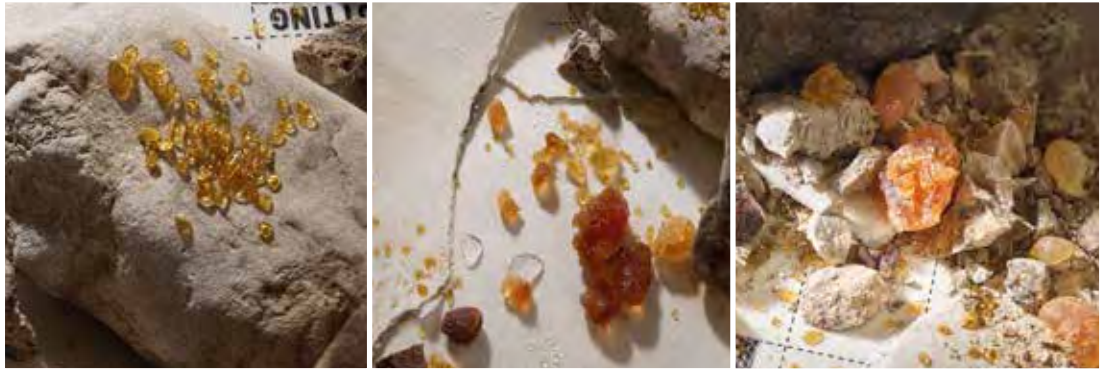
M-Base underlays belong to the group of PUM underlays from the well-known and prestigious Multiprotec line.

They are distinguished by very high quality and excellent consumer reviews. M-Base product line of three products. This underlays are designed for NATURAL flooring. The underlays meet stringent standards and provide the highest possible performance.

M-Base underlays are white – because we have eliminated artificial dyes. Additionally we packed them in ecological, recycled cardboard packaging. The M-Base underlay line has ecology written into its DNA.







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

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 faibles émissions) à C (fortes émissions)

# WHY ARBITON?

## OUR SOLUTIONS

### INNOVATIVE FEATURES OF POLYURETHANE WITH MINERAL PRODUCTS FOR LAMINATE AND VINYL CLICK FLOORING

#### 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.





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## ROLL

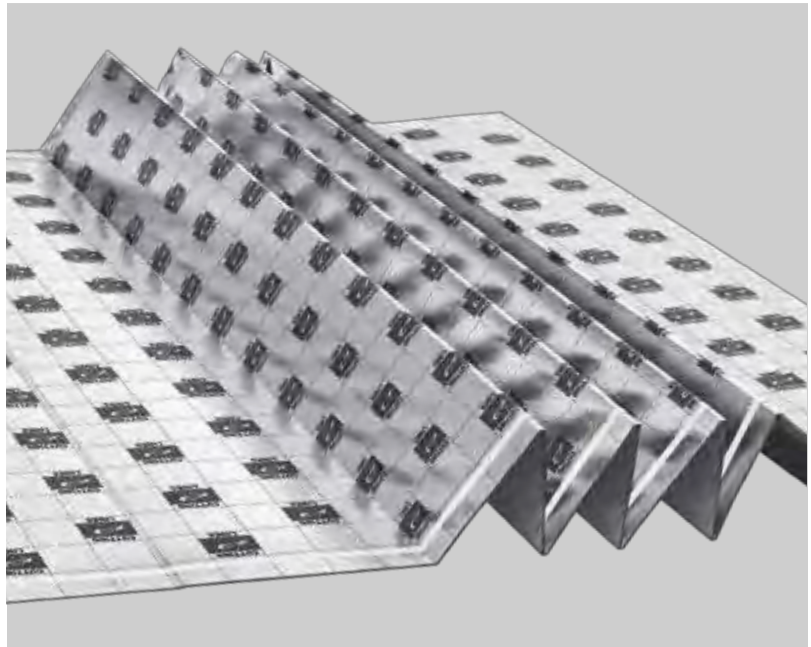
Quicker assembly possible  
with simple unfolding  
of the roll



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## ACCORDION FORM OF XPS

- > easier and quicker installation  
thanks to 3IN1
- > fulfilment of requirement  
from EN16354
- > precise cutting with printed  
guiding lines



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## TECHNOLOGY OF XPS



FLEX Technology stands for more flexible XPS which leads to more comfortable installation. This technology prevents cracking, crushing and breaking while fitting the underlay.

Our FLEX Technology products have great parameters certified with EN16354 norm and are the best solution-instead of PE foam which does not pass the DL test required by norm and therefore cannot be named as an underlay.



# NUMBER 1 IN DIY

## SIMPLE AND EASY MERCHANDISE LOGISTIC CONCEPT FOR DIY





## NATURAL FLOORS

### 26 | M - BASE FAMILY

M-BASE HEAT **NEW**

M-BASE SOUND **NEW**

M-BASE GLUE **NEW**

## FLOATING FLOOR FOR LAMINATE & ENGINEERED WOOD

### 30 | MULTIPROTEC FAMILY

MULTIPROTEC ABSOLUTE 3IN1

MULTIPROTEC ACOUSTIC 3IN1

MULTIPROTEC 1000 3IN1

### 32 | OPTIMA FAMILY

OPTIMA EXPERT AQUASTOP

OPTIMA THERMO AQUASTOP

OPTIMA AQUASTOP

OPTIMA MAX

### 34 | SECURA SMART FAMILY

SECURA THERMO AQUASTOP SMART

SECURA AQUASTOP SMART

SECURA EXTRA AQUASTOP SMART

SECURA MAX AQUASTOP SMART

SECURA MAX SMART

### 36 | SECURA ROLLS FAMILY

SECURA AQUASTOP FLEX

SECURA FLEX

SECURA LIGHT AQUASTOP FLEX

SECURA LIGHT FLEX

SECURA THERMO

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## VINYL FLOORS

### 44 | MULTIPROTEC VINYL FAMILY

MULTIPROTEC VINYL CLICK

MULTIPROTEC VINYL CLICK SUPER HARDLAY **NEW**

MULTIPROTEC VINYL CLICK ANTISLIP

MULTIPROTEC VINYL ACOUSTIC **NEW**

### 46 | SECURA VINYL FAMILY

SECURA VINYL CLICK

SECURA VINYL CLICK BLACK

SECURA VINYL CLICK ANTISLIP

### 50 | MULTIPROTEC LVT FASTLAY HD

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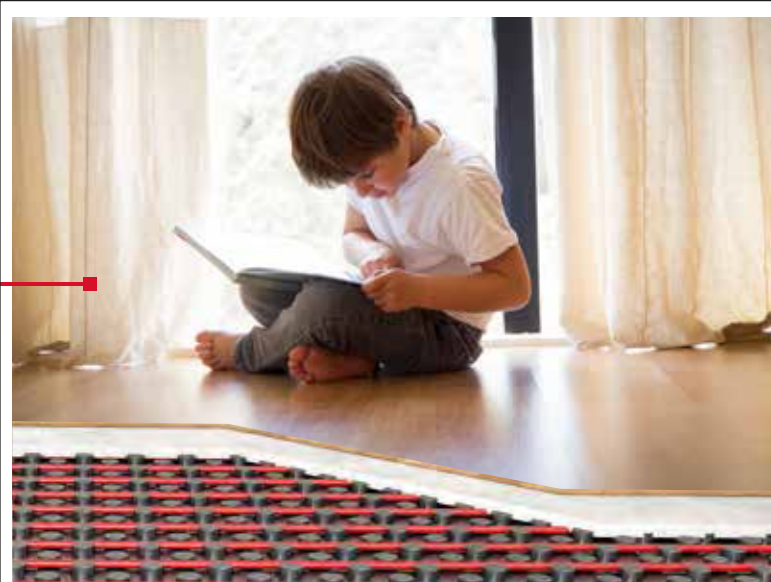
# CHOOSE THE RIGHT UNDERLAY

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



## THERMAL COMFORT

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

Look for products with the following icon





# ACOUSTIC COMFORT

Do you want to improve acoustic comfort?

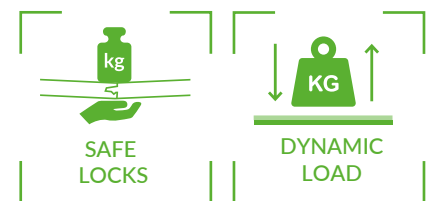
Look for products with the following icons



# FLOOR DURABILITY

Do you fit the floor in high traffic area?

Look for products with the following icons



# FLOOR BASE



It is crucial for the floor from a durability perspective to be fitted on a solid foundation - a correct underlay.

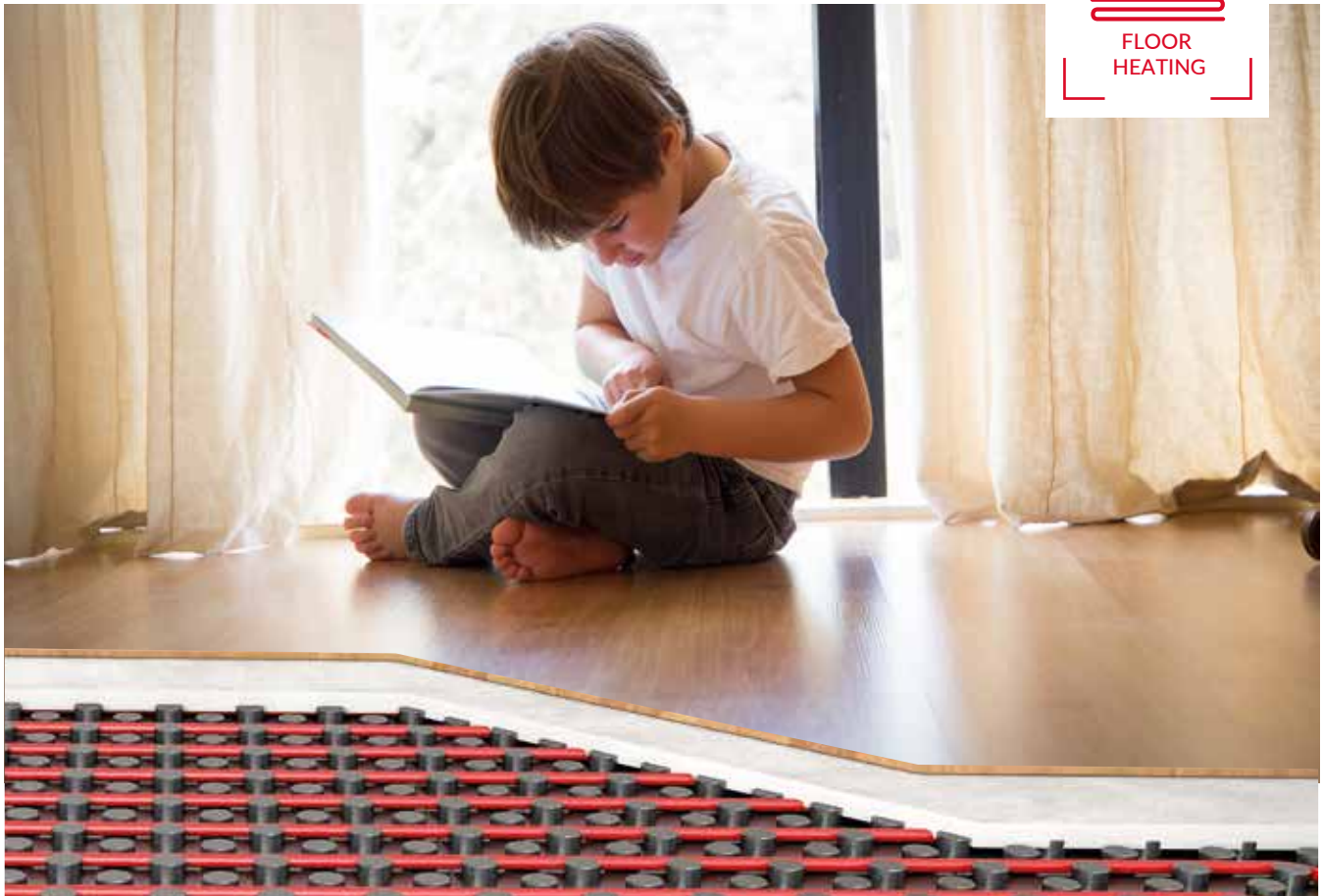
The better quality of the underlay the more durable flooring system. Underlay is a connecting element between substrate and floor and this is why it should support the following functions:

- > enable the correct assembly
- > ensure the floor durability for many years
- > enhance usability properties of the floor system

**REMEMBER!**  
MANUFACTURERS  
PROVIDE WARRANTY  
FOR THE FLOOR  
ONLY IF INSTALLED  
WITH AN APPROPRIATE  
UNDERLAY



# 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 m<sup>2</sup>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 ~0,08 m<sup>2</sup>K/W. With this type of flooring, you should use an underlay with minimal thermal resistance. Arbiton offers such solutions.

**Multiprotec 1000 3IN1** is the best underlay for underfloor heating, with a thermal resistance of only 0,006 m<sup>2</sup>K/W. This parameter is a result of its density and mineral structure, which conducts heat very well. It drastically reduces energy consumption compared to other products. Efficient underfloor heating guarantees enormous savings.



# ACOUSTIC COMFORT



WHILE WE CANNOT COMPLETELY ELIMINATE FLOOR NOISES, THEY CAN BE REDUCED SIGNIFICANTLY WITH A SUITABLE UNDERLAY. REDUCTIONS IN SOUND ARE SPECIFIED AS A PERCENTAGE (%) FOR REFLECTED WALKING NOISES (RWS) AND IN DECIBELS (DB) FOR IMPACT SOUNDS (IS).

## What does this actually mean?

Well, a noise reduction of 10 dB corresponds to 50% soundproofing to the human ear. The best underlays on the market have an RWS of nearly 30% and an IS of more than 20 dB. Standard PE foam or ecological boards seem to be less useful in this area, as they have hardly any effect on noise reduction.



\* Testing standard is being developed. Generally higher value is better.



# 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.



# FLOOR DURABILITY



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

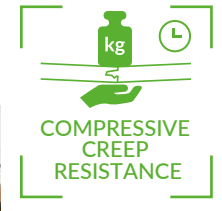
If so, use an underlay with the highest compressive strength parameter (kPa). The higher the CS value the better the underlayment will protect the locking system and counteract the deformation and opening-up of any cracks. Recommendations from EPLF specify that CS value must be at least 60 kPa. In our 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	Optima Expert Aquastop	Secura Aquastop Smart	Multiprotec 1000 3in1
Compressive Strength (kPa)	60	90	310
Quality Rating	GOOD	BETTER	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.

CC

SECURA  
AQUASTOP SMART

**GOOD**

30 kPa

MULTIPROTEC  
1000 3IN1

**BEST**

50 kPa

ACCORDING TO NORM EN16354



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.



Product	DL Class	Cycles
OPTIMA EXPERT AQUASTOP	BETTER	>100 000 cycles
MULTIPROTEC 1000 3IN1	BEST	>2 500 000 cycles

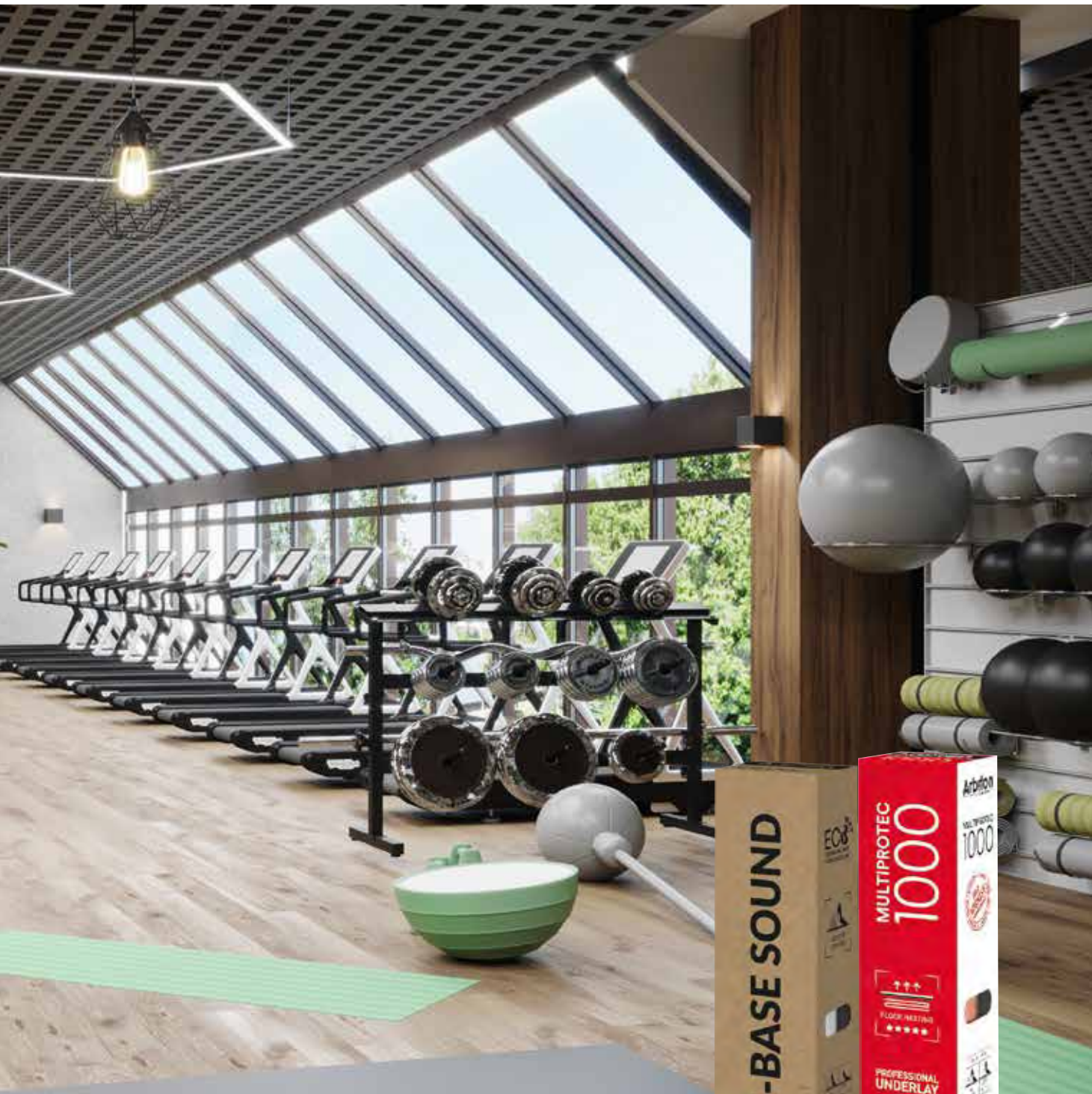
ACCORDING TO NORM EN16354  
EPLF

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/m<sup>3</sup>





UP TO  
**2 500 000**  
CYCLES

**12 YEARS**  
OF COMMERCIAL USE!















**ARBITON UNDERLAYS  
FULFIL EN16354 NORM  
AND EPLF  
RECOMMENDATIONS**

**ACCORDING  
TO NORM  
EN16354**





# OVERVIEW OF REQUIREMENTS FOR UNDERLAY

	Requirement	KPI	Description	Benefits for users	Minimum value	Recommended value		
EN16354 NORM GUIDELINES	FLOOR DURABILITY	PUNCTUAL CONFORMABILITY	 PC	Smoothing small local defects of the subfloor or small particles laying on the subfloor	<b>Preventing from cracking and clicking noise from sound bridges</b>	≥0,5 mm		
		COMPRESSIVE STRENGTH	 CS	Compressive strength at deformation	<b>Protection of locking system and against cracking</b>	≥10 kPa	≥60 kPa	
		COMPRESSIVE CREEP RESISTANCE	 CC	Sustained static load	<b>The higher value allow placed heavier furniture on the flooring system</b>	≥2 kPa	≥20 kPa	
		DYNAMIC LOAD	 DL	Resistance of the underlay against long-term dynamic load	<b>Resistance to intensive usage</b>	≥10 000 cycles	≥100 000 cycles	
		RESISTANCE TO IMPACT BY LARGE BALL	 RLB	Measured for the whole system - laminate + underlay	<b>Protecting from deformation in case of heavy object fall</b>	>500 mm	>1200 mm	
	ADDITIONAL PARAMETERS - EPLF RECOMMENDATION	ACOUSTIC COMFORT	IMPACT SOUND REDUCTION	 IS	Transferred sound reduction	<b>Sounds transferred to area below are muffled</b>	≥14dB	≥18dB
			RADIATED WALKING SOUND	 RWS	Reflected walking sound emitted	<b>Reduction of noises reflected from the floor f.e. steps</b>		
		THERMAL COMFORT	THERMAL BARRIER	 TB	Heat insulation*	<b>Reduction of hot or cold transmission through the floor covering</b>	≥0,075 m²K/W	
		FLOOR HEATING	THERMAL RESISTANCE	 TR	Usefulness for coverings with underfloor heating (H) or cooling (C)**	<b>Less time required for heating up/cooling off; energy savings</b>	H: ≤0,15 C: ≤0,10 m²K/W	
		SUBSTRATE STRUCTURE	WATER VAPOUR RESISTANCE	 SD	Protection against residual moisture in substrate	<b>Avoiding damp related damages</b>	≥75 m	

\*EN16354 norm and EPLF 08/2013 instruction - Installation of Laminate Floor Coverings

\*\* Tested with the entire system - floor + underlay





# NATURAL FLOORS









**NEW**

# M-BASE FAMILY FOR NATURAL FLOORS



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

## FLOATING INSTALLATION

### 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.



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

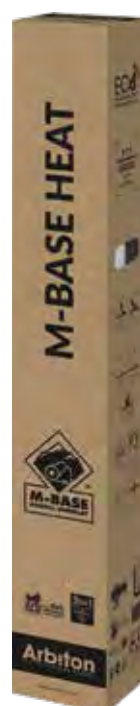
PC	CLASS PC2 (<1,2 mm)
CS	CLASS CS3 (<280 kPa)
CC	CLASS CC3 (50 kPa)
DL	CLASS DL3 (> 2 500 000 CYCLES)
RLB	CLASS RLB2 (≤1000 mm)
IS	<17 dB
RWS	<22%
FLOOR HEATING	YES
THERMAL COMFORT	<0,006 m <sup>2</sup> K/W
SD	>75 m
EAN	5905167847053



**3IN1**

- UNDERLAY
- FOIL
- TAPE

M-BASE HEAT





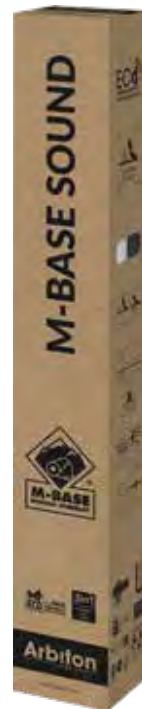
## M-SOUND

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-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	<27%
FLOOR HEATING	YES
THERMAL COMFORT	<0,01 m <sup>2</sup> K/W
SD	>75 m
EAN	5905167847060

## GLUE INSTALLATION

### 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 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 soles*
FLOOR HEATING	YES
THERMAL COMFORT	<0,01 m <sup>2</sup> K/W
SD	>75 m
EAN	5905167847077

\*Tested with a 14 mm ENGINEERED WOOD



# FLOATING FLOOR LAMINATE & ENGINEERED WOOD

## WHY DO LAMINATE FLOOR NEED TO BE FITTED ON THE UNDERLAY?

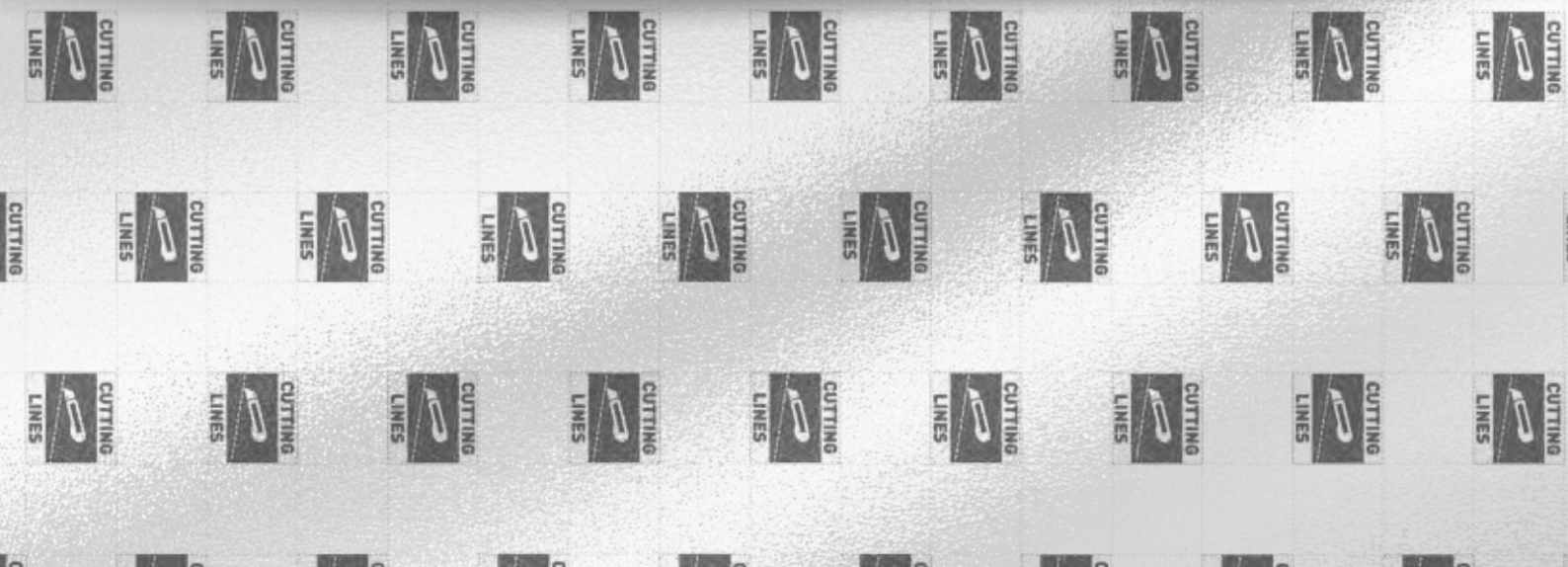
A FLOOR SYSTEM IS WORKING AT ITS BEST IF THE UNDERLAY AND FLOOR PERFORM OPTIMALLY TOGETHER.

### 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





## 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	<28%
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	<22%
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	<30%
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.



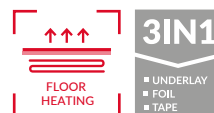
# OPTIMA EXPERT AQUASTOP



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	<22%
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	<16%
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	<20%
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	<20%
FLOOR HEATING	YES
THERMAL COMFORT	<0,04 m <sup>2</sup> K/W
SD	-
EAN	5905167779316



**5 X FASTER  
INSTALLATION**

# SECURA SMART FAMILY

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

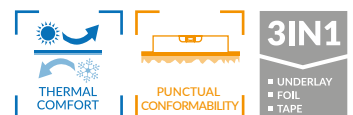
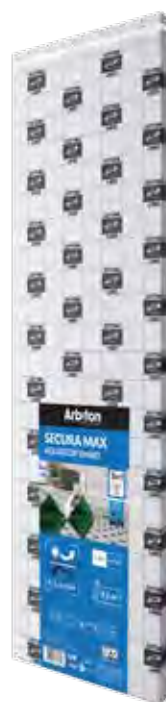
3IN1 underlay: Underlay has a firm and stable connection.

## 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 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	<10%
FLOOR HEATING	-
THERMAL COMFORT	<0,18 m <sup>2</sup> K/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	<12%
FLOOR HEATING	-
THERMAL COMFORT	<0,11 m <sup>2</sup> K/W
SD	>150 m
EAN	5905167807262

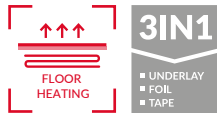
# SECURA AQUASTOP SMART



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	<14%
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>

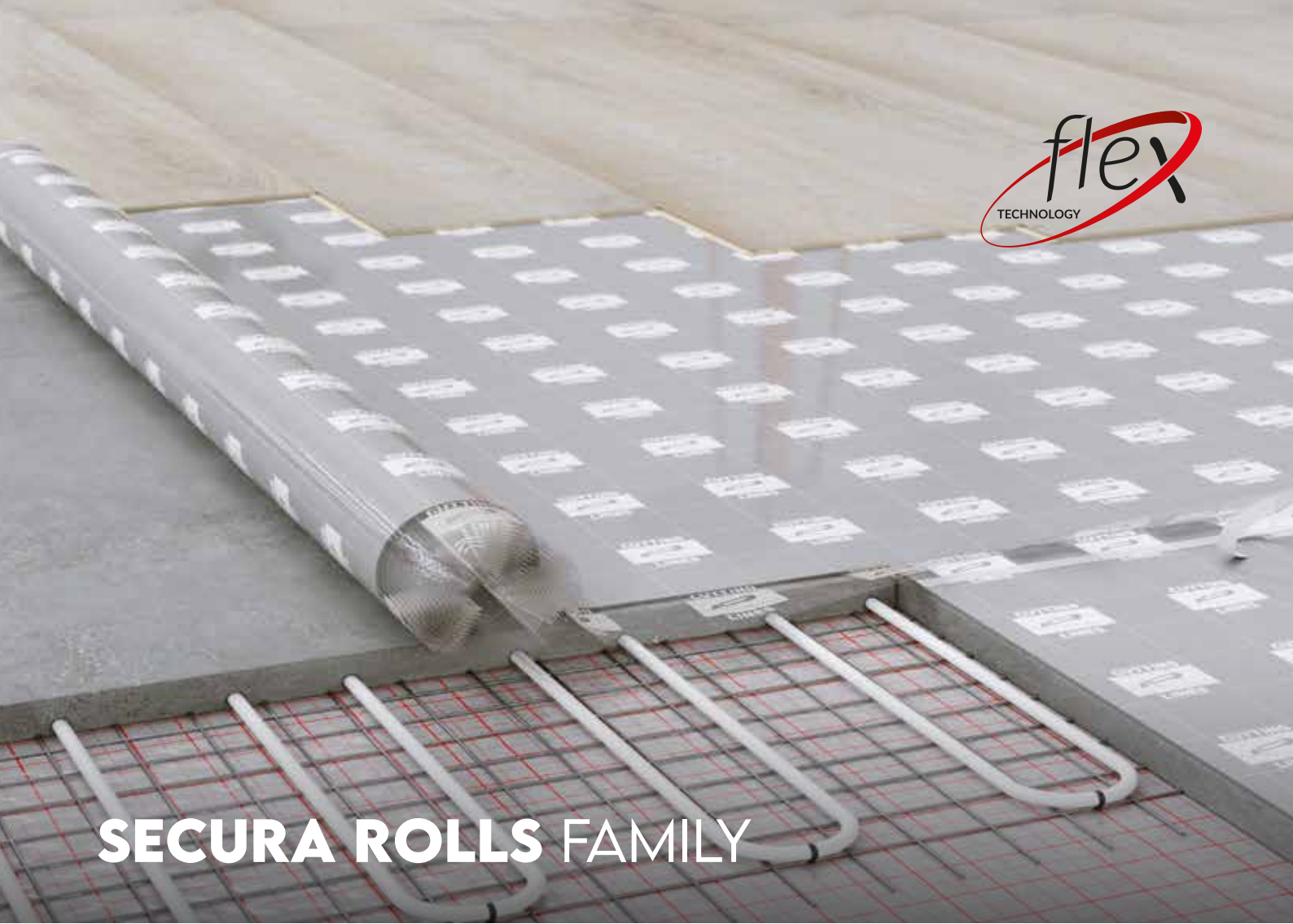
PC	CLASS PC2 (<1,2 mm)
CS	CLASS CS2 (<90 kPa)
CC	CLASS CC2 (<30 kPa)
DL	CLASS DL3 (>500 000 CYCLES)
RLB	CLASS RLB2 (≤1200 mm)
IS	<19 dB
RWS	<14%
FLOOR HEATING	YES
THERMAL COMFORT	<0,05 m <sup>2</sup> K/W
SD	>75 m
EAN	5905167826942

# 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	<10%
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	<14%
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	<14%
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	<14%
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	<14%
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	<14%
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 THE BEST UNDERLAY FOR YOUR VINYL FLOOR (LVT & RIGID)

**NEW**



## VINYL FLOOR FITTED DIRECTLY ON CERAMIC TILES

Check underlays with increased compressive strength as ideal solution for areas with high level of traffic.

- **MULTIPROTEC VINYL CLICK SUPER HARDLAY**



## ACOUSTIC COMFORT

Despite the fact that vinyl floors are naturally much quieter than laminate floors, thanks to the use of our underlays, they can be additionally quieter

- **MULTIPROTEC VINYL CLICK ANTISLIP**
- **MULTIPROTEC VINYL CLICK ACOUSTIC**
- **MULTIPROTEC VINYL CLICK**





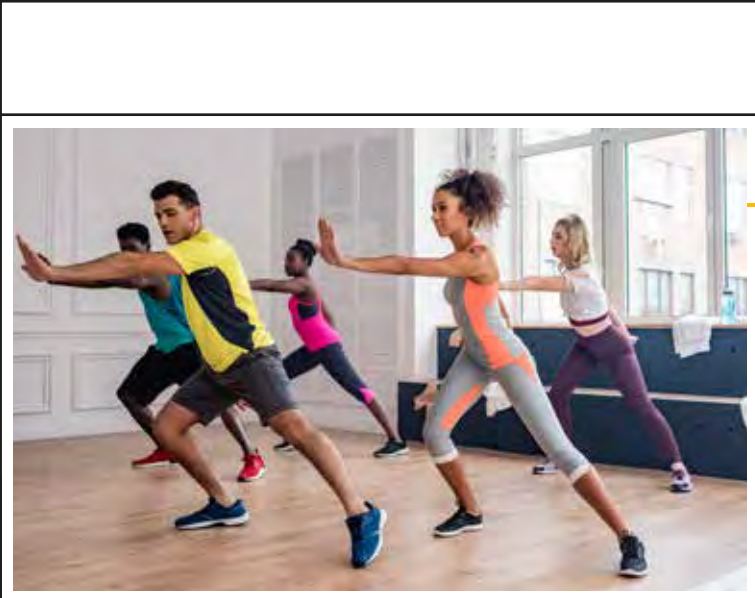
## ACOUSTIC INSULATION

Do not worry about comfort of your neighbours living below you – our underlays with high IS value will reduce noise transferred through the floor system.

- **MULTIPROTEC VINYL CLICK ACOUSTIC**
- **SECURA VINYL CLICK**
- **SECURA VINYL CLICK ANTISLIP**



**NEW**



# 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.



400 kPa

700 kPa



## FLOOR HEATING

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



GOOD

BETTER

THE BEST

UNDERLAY  
0,04 m<sup>2</sup>K/W

UNDERLAY  
0,008 m<sup>2</sup>K/W

UNDERLAY  
0,004 m<sup>2</sup>K/W



## 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.



GOOD

THE BEST

60 SONES

58 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	PC	Smoothing small local defects of the subfloor or small particles laying on the subfloor	<b>Preventing from cracking and clicking noise from sound bridges</b>	$\geq 0,5$ mm		
		COMPRESSIVE STRENGTH	CS	Compressive strength at deformation	<b>Protection of locking system and against cracking</b>	$\geq 200$ kPa	$\geq 400$ kPa	
		COMPRESSIVE CREEP RESISTANCE	CC	Sustained static load	<b>The higher value allow placed heavier furniture on the flooring system</b>	$\geq 10$ kPa	$\geq 35$ kPa	
	ADDITIONAL PARAMETERS - MMFA RECOMMENDATION	ACOUSTIC COMFORT	DYNAMIC LOAD	DL	Resistance of the underlay against long-term dynamic load	<b>Resistance to intensive usage</b>	$\geq 10\ 000$ cycles	$\geq 100\ 000$ cycles
			IMPACT SOUND REDUCTION	IS	Transferred sound reduction	<b>Sounds transferred to area below are muffled</b>	$\geq 10$ dB	$\geq 18$ dB
		THERMAL COMFORT	RADIATED WALKING SOUND	RWS	Reflected walking sound emitted	<b>Reduction of noises reflected from the floor f.e. steps</b>	the lower the value in sones the quieter flooring system	
			THERMAL BARRIER	TB	Heat insulation*	<b>Reduction of hot or cold transmission through the floor covering</b>	$\geq 0,075$ m <sup>2</sup> K/W	
			FLOOR HEATING	THERMAL RESISTANCE	TR	Usefulness for coverings with underfloor heating (H) or cooling (C)**	<b>Less time required for heating up/cooling off; energy savings</b>	H: $\leq 0,15$ C: $\leq 0,10$ m <sup>2</sup> K/W
		SUBSTRATE STRUCTURE	WATER VAPOUR RESISTANCE	SD	Protection against residual moisture in substrate	<b>Avoiding damp related damages</b>	$\geq 75$ 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.



> 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 SUPER HARDLAY



# 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 ANTISLIP



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

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 <sup>2</sup> K/W
SD	-
EAN	5905167721230

\* REMOVE PROTECTIVE FOIL BEFORE INSTALL PANELS



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

## FIRST PUM UNDERLAY WITH 3IN1

# 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



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	<18 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.

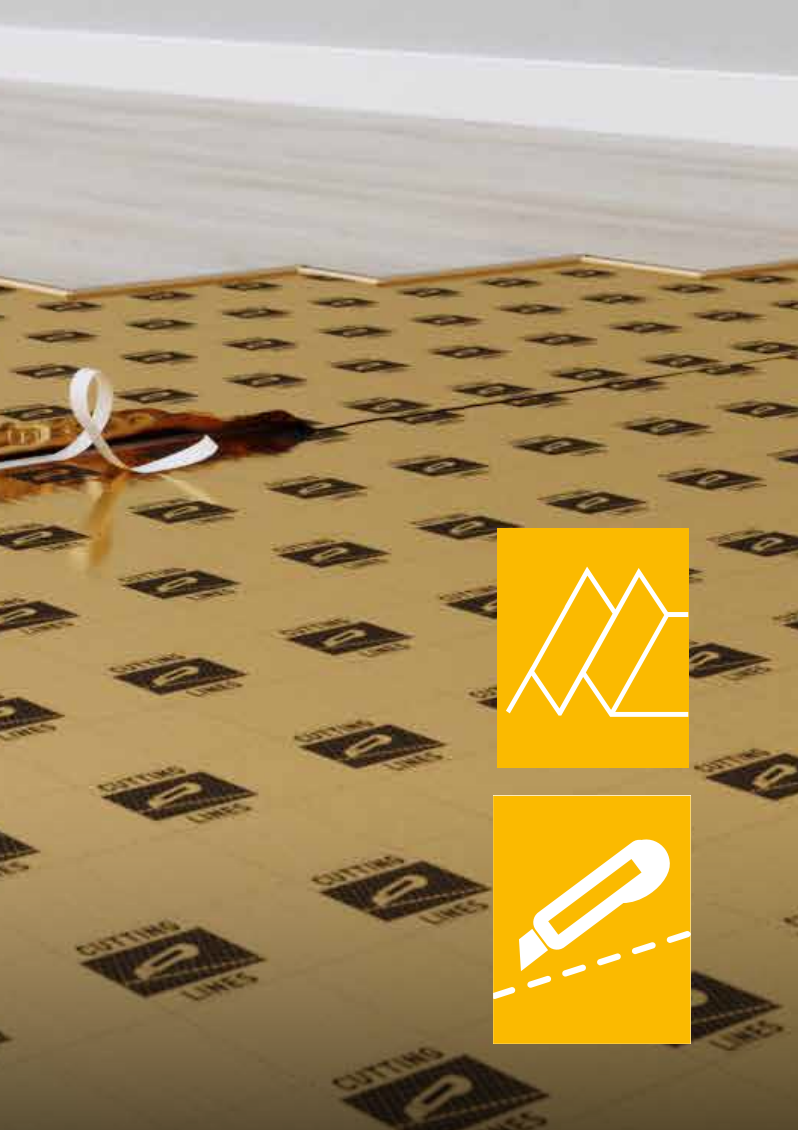
HIGH CS VALUE IMPROVES QUALITY OF THE SYSTEM AND INCREASES DURABILITY OF THE FLOOR.

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.



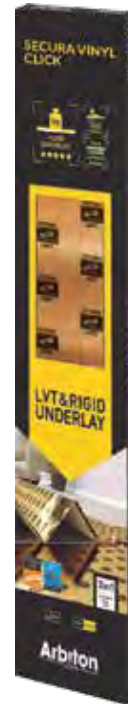


## SECURA VINYL CLICK



MATERIAL	M-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	<19 dB
RWS	60 sones
FLOOR HEATING	YES
THERMAL COMFORT	<0,04 m <sup>2</sup> K/W
SD	>150 m
EAN	5905167816943



## SECURA VINYL CLICK BLACK



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

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	<17 dB
RWS	63 sones
FLOOR HEATING	YES
THERMAL COMFORT	<0,03 m <sup>2</sup> K/W
SD	>75 m
EAN	5905167816950

## SECURA VINYL CLICK ANTISLIP



MATERIAL	M-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	<19 dB
RWS	60 sones
FLOOR HEATING	YES
THERMAL COMFORT	<0,04 m <sup>2</sup> K/W
SD	>150 m
EAN	5905167816936





# UNDERLAYS FOR DRYBACK FLOORS



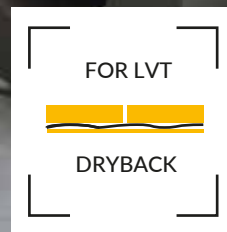








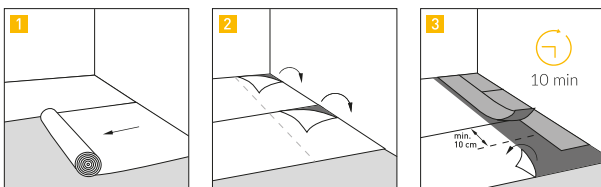
# MULTIPROTEC LVT FASTLAY HD



UNDERLAY IDEAL FOR DRYBACK FLOORS. IT CAN BE USED FOR QUICK RENOVATION WITHOUT INTERFERENCE IN SUBSOIL.

Minimum subsoil preparation (eliminates minor unevenness) and much quicker glue assembly. Innovative self-adhesive layer allows corrections up to 10 minutes after plank installation.

You do not need experience in fitting a floor to install the dryback floor on our fastlay mate. It is as easy as click floor in floating system. It is ideal solution for do it yourself enthusiasts.



MULTIPROTEC LVT FASTLAY HD



MATERIAL	PUM + SELF STICK LAYER
THICKNESS	1,8 mm
FORM	ROLL / 6 m <sup>2</sup>

PC	CLASS PC2 (<1,1 mm)
CS	CLASS CS3 (<500 kPa)
CC	CLASS CC3 (<50 kPa)
DL	CLASS DL3 (>2 500 000 CYCLES)
RLB	CLASS RLB3 (≤1500 mm)
IS	<17 dB
RWS	50 sones
FLOOR HEATING	YES
THERMAL COMFORT	<0,01 m <sup>2</sup> K/W
SD	>75 m
EAN	5905167816967



# MULTIPROTEC ACULAY

## Installation areas:

- > concrete substrates
- > all types of screed that conform to standards
- > screeds at risk of cracking
- > warm water underfloor heating systems
- > floorboards, chipboards
- > old stone and ceramic flooring

## ACOUSTIC AND STRESS-RELIEVING UNDERLAY FOR LVT DRYBACK

Made of minerals, polyurethane, reinforced with two layers of natural fibre mesh and special vapour layer thanks to which it effectively breaks impact sound waves and assure  $SD > 75$  m. Suitable for use in domestic and commercial areas, in new buildings but especially in renovation projects and on substrates with poor acoustic insulation.

### Stress-relieving

Compensates any shear and pull forces between the substrate and the flooring.

### Impact sound insulation

Considerably reduces impact and ambient sound in flooring installations. Combines acoustic comfort with technical and functional reliability, therefore it is an ideal solution for renovation. Suitable also for solid wood flooring and engineered wood flooring.



MULTIPROTEC ACULAY

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	<21 dB
RWS	47 sones
FLOOR HEATING	YES
THERMAL COMFORT	<0,01 m <sup>2</sup> K/W
SD	>75 m
EAN	5905167826744

# 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

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 <sup>2</sup> (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



# NATURAL, ENGINEERED WOOD, SOLID WOOD &

	M - BASE			MULTIPROTEC		
	M-Base Heat	M-Base Sound	M-Base Glue	Multiprotec 1000 3IN1	Multiprotec Acoustic 3IN1	Multiprotec Absolute 3IN1
<b>Logistic Parameters</b>						
Thickness	1,5 mm	2,4 mm	2,1 mm	1,5 mm	2 mm	3 mm
Material	PUM+PET	PUM+PET	PUM	PUM+PET	PUM+PET	PUM+PET
Form	ROLL	ROLL	ROLL	ROLL	ROLL	ROLL
Package / Unit package [m <sup>2</sup> ]	8 x 1 m / 8 m <sup>2</sup>	6 x 1 m / 6 m <sup>2</sup>	7 x 1 m / 7 m <sup>2</sup>	8 x 1 m / 8 m <sup>2</sup>	8 x 1 m / 8 m <sup>2</sup>	5 x 1 m / 5 m <sup>2</sup>
Dimension of package [mm]	155x155x1060	155x155x1060	155x155x1060	155x155x1060	155x155x1060	155x155x1060
Weight of package [kg]	10,3	12,22	12,46	12,7	13,2	10,45
	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>	320 m <sup>2</sup>	200 m <sup>2</sup>
	10 560	7 920	9240	10560 m <sup>2</sup>	10560 m <sup>2</sup>	6600 m <sup>2</sup>
EAN	5905167847053	5905167847060	5905167847077	5905167816844	5905167816851	5905167816868
PROD. NO.	158254000000000915	158254000000000916	158254000000000917	154231201505000140	154231201505000141	154231201505000142

## Technical Parameters














	PC	CLASS PC2 (1,2 mm)	CLASS PC2 (1,6 mm)	CLASS PC2 (1,3 mm)	CLASS PC2 (1,2 mm)	CLASS PC2 (1,6 mm)	CLASS PC3 (2,3 mm)
	CS	CLASS CS3 (up to 280 kPa)	CLASS CS2 (up to 120 kPa)	CLASS CS3 (up to 300 kPa)	CLASS CS3 (up to 310 kPa)	CLASS CS3 (up to 250 kPa)	CLASS CS2 (up to 100 kPa)
	CC	CLASS CC3 (50 kPa)	CLASS CC3 (50 kPa)	CLASS CC3 (50 kPa)	CLASS CC3 (50 kPa)	CLASS CC3 (50 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 (>2 500 000 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 RLB2 (≤1000 mm)	CLASS RLB2 (≤1000 mm)
	RWS	up to 22%	up to 27%	up to 75 sones*	up to 22%	up to 28%	up to 30%
	IS	up to 17 dB	up to 19 dB	up to 17 dB	up to 16 dB	up to 20 dB	up to 21 dB
	FLOOR HEATING	YES	YES	YES	YES	YES	YES
	THERMAL INSULATION	up to 0,006 m <sup>2</sup> K/W	up to 0,01 m <sup>2</sup> K/W	up to 0,01 m <sup>2</sup> K/W	up to 0,006 m <sup>2</sup> K/W	up to 0,01 m <sup>2</sup> K/W	up to 0,01 m <sup>2</sup> K/W
	SD	>75 m	>75 m	>75 m	>150 m	>150 m	>150 m








# LAMINATE FLOORS

## OPTIMA











Optima Expert Aquastop	Optima Thermo Aquastop	Optima Aquastop	Optima Max	
2 mm	1,5 mm	2 mm	2 mm	Thickness
PEHD + PET	PEHD + PET	PEHD + PET	PEHD	Material
ROLL	ROLL	ROLL	ROLL	Form
10 x 1 m / 10 m <sup>2</sup>	10 x 1 m / 10 m <sup>2</sup>	10 x 1 m / 10 m <sup>2</sup>	10 x 1 m / 10 m <sup>2</sup>	Package / Unit package [m <sup>2</sup> ]
150x150x1000	150x150x1000	150x150x1000	150x150x1000	Dimension of package [mm]
2,83	1,83	2,43	2	Weight of package [kg]
30	48	30	30	
300 m <sup>2</sup> / 600 m <sup>2</sup>	480 m <sup>2</sup> / 960 m <sup>2</sup>	300 m <sup>2</sup> / 600 m <sup>2</sup>	300 m <sup>2</sup> / 600 m <sup>2</sup>	
19800 m <sup>2</sup>	31680 m <sup>2</sup>	19800 m <sup>2</sup>	19800 m <sup>2</sup>	
5905167778784	5905167778791	5905167778777	5905167779316	EAN
154235184504001002	154235184504001003	154235184504001001	154235184504001018	PROD. NO.
CLASS PC2 (1,3 mm)	CLASS PC2 (1,2 mm)	CLASS PC2 (1,3 mm)	CLASS PC2 (1,3 mm)	PC 
CLASS CS2 (up to 70 kPa)	CLASS CS2 (up to 60 kPa)	CLASS CS2 (up to 60 kPa)	CLASS CS2 (up to 280 kPa)	CS 
				CC 
CLASS DL2 (>100 000 cycles)	CLASS DL2 (>100 000 cycles)	CLASS DL2 (>100 000 cycles)	CLASS DL2 (>100 000 cycles)	DL 
CLASS RLB3 (≤1300 mm)	CLASS RLB3 (≤1300 mm)	CLASS RLB3 (≤1000 mm)	CLASS RLB3 (≤1500 mm)	RLB 
up to 22%	up to 16%	up to 20%	up to 20%	RWS 
up to 19 dB	up to 18 dB	up to 19 dB	up to 19 dB	IS 
YES	YES	YES	YES	FLOOR HEATING 
up to 0,05 m <sup>2</sup> K/W	up to 0,03 m <sup>2</sup> K/W	up to 0,04 m <sup>2</sup> K/W	up to 0,04 m <sup>2</sup> K/W	THERMAL INSULATION 
>150 m	>150 m	>150 m		SD 

# LAMINATE FLOORS

## SECURA














	Secura Max Aquistop Smart	Secura Extra Aquistop Smart	Secura Aquistop Smart	Secura Thermo Aquistop Smart	Secura Max Smart
<b>Logistic Parameters</b>					
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
Package / Unit package [m <sup>2</sup> ]	4,7 x 1,18 m / 5,5 m <sup>2</sup>	5,1 x 1,18 m / 6 m <sup>2</sup>	5,1 x 1,18 m / 6 m <sup>2</sup>	5,1 x 1,18 m / 6 m <sup>2</sup>	4,7 x 1,18 m / 5,5 m <sup>2</sup>
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>
	11264 m <sup>2</sup>	18432 m <sup>2</sup>	24 192 m <sup>2</sup>	32 256 m <sup>2</sup>	11264 m <sup>2</sup>
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 10%	up to 12%	up to 14%	up to 14%	up to 10%
	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











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 m / 15 m <sup>2</sup>	9,1 x 1,1m / 10 m <sup>2</sup>	15 x 1,1 m / 16,5 m <sup>2</sup>	18,2 x 1,1m / 20 m <sup>2</sup>	15 x 1,1 m / 16,5 m <sup>2</sup>	Package/ Unit package [m <sup>2</sup> ]
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 <sup>2</sup> / 720 m <sup>2</sup>	450 m <sup>2</sup> / 900 m <sup>2</sup>	396 m <sup>2</sup> / 792 m <sup>2</sup>	480 m <sup>2</sup> / 960 m <sup>2</sup>	396 m <sup>2</sup> / 792 m <sup>2</sup>	
23 040 m <sup>2</sup>	28 800 m <sup>2</sup>	25 344 m <sup>2</sup>	30 720 m <sup>2</sup>	25 344 m <sup>2</sup>	
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 14%	up to 14%	up to 14%	up to 14%	up to 14%	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 <sup>2</sup> K/W	up to 0,05 m <sup>2</sup> K/W	up to 0,074 m <sup>2</sup> K/W	up to 0,05 m <sup>2</sup> K/W	up to 0,05 m <sup>2</sup> K/W	THERMAL INSULATION 
>150 m	>75 m				SD 

# VINYL FLOORS

## MULTIPROTEC VINYL CLICK

	Multiprotec Vinyl Click	Multiprotec Vinyl Click Super Hardlay	Multiprotec Vinyl Click Antislip	Multiprotec Vinyl Click Acoustic
<b>Logistic Parameters</b>				
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
Package / Unit package [m <sup>2</sup> ]	8,5 x 1 m / 8,5 m <sup>2</sup>	9,0 x 1 m / 9 m <sup>2</sup>	8,5 x 1 m / 8,5 m <sup>2</sup>	7,0 x 1 m / 7 m <sup>2</sup>
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 <sup>2</sup>	360 m <sup>2</sup>	340 m <sup>2</sup>	320 m <sup>2</sup>
	11 220 m <sup>2</sup>	11 880 m <sup>2</sup>	11 220 m <sup>2</sup>	10 560 m <sup>2</sup>
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 (up to 400 kPa)	CLASS CS3 (up to 700 kPa)	CLASS CS3 (up to 400 kPa)	CLASS CS3 (up to 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 sonex	up to 62 sonex	up to 58 sonex	up to 58 sonex
	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 <sup>2</sup> K/W	up to 0,004 m <sup>2</sup> K/W	up to 0,008 m <sup>2</sup> K/W	up to 0,01 m <sup>2</sup> K/W
	SD	>75 m	>75 m		>75 m





**SECURA VINYL CLICK**
**MULTIPROTEC VINYL GLUE**

Secura Vinyl Click	Secura Vinyl Click Black	Secura Vinyl Click Smart Antislip	Multiprotect LVT Fastlay HD	Multiprotect Aculay	
1,5 mm	1,0 mm	1,5 mm	1,8 mm	2,1 mm	Thickness
M-XPS+PET	M-XPS+PET	M-XPS+PET	PUM + SELF STICK LAYER	PUM	Material
SMART	SMART	SMART	ROLL	ROLL	Form
5,3 x 1,18 m / 6,25 m <sup>2</sup>	5,3 x 1,18 m / 6,25 m <sup>2</sup>	5,3 x 1,18 m / 6,25 m <sup>2</sup>	6 x 1 m / 6 m <sup>2</sup>	7 x 1 m / 7 m <sup>2</sup>	Package/ Unit package [m <sup>2</sup> ]
1190x270x41	1200x270x30	1190x270x41	155x155x1060	155x155x1060	Dimension of package [mm]
1,81	1,5	1,88	13,7	13,48	Weight of package [kg]
63	78	63	40	40	
393,75 m <sup>2</sup> / 787,5 m <sup>2</sup>	487,5 m <sup>2</sup> / 975m <sup>2</sup>	393,75 m <sup>2</sup> / 787,5 m <sup>2</sup>	240 m <sup>2</sup>	280 m <sup>2</sup>	
25 200 m <sup>2</sup>	31 200 m <sup>2</sup>	25 200 m <sup>2</sup>	7 920 m <sup>2</sup>	9 240 m <sup>2</sup>	
5905167816943	5905167816950	5905167816936	5905167816967	5905167826744	EAN
154231201505000150	154231201505000151	154231201505000149	154231201505000152	154231201505000785	PROD. NO.

CLASS PC2 (1,0 mm)	CLASS PC1 (0,8 mm)	CLASS PC2 (1,0 mm)	CLASS PC2 (1,1 mm)	CLASS PC2 (1,3 mm)	PC
CLASS CS3 (up to 400 kPa)	CLASS CS3 (up to 400 kPa)	CLASS CS3 (up to 400 kPa)	CLASS CS3 (up to 500 kPa)	CLASS CS3 (up to 300 kPa)	CS
CLASS CC2 (40 kPa)	CLASS CC2 (40 kPa)	CLASS CC2 (40 kPa)	CLASS CC3 (50 kPa)	CLASS CC2 (50 kPa)	CC
CLASS DL3 (>1 000 000 cycles)	CLASS DL3 (>1 000 000 cycles)	CLASS DL3 (>1 000 000 cycles)	CLASS DL3 (>2 500 000 cycles)	CLASS DL3 (>2 500 000 cycles)	DL
CLASS RLB3 (≤1500 mm)	CLASS RLB3 (≤1300 mm)	CLASS RLB3 (≤1500 mm)	CLASS RLB3 (≤1500 mm)	CLASS RLB3 (≤1300 mm)	RLB
up to 60 sones	up to 63 sones	up to 60 sones	up to 55 sones	up to 47 sones	RWS
up to 19 dB	up to 17 dB	up to 19 dB	up to 17 dB	up to 21 dB	IS
YES	YES	YES	YES	YES	FLOOR HEATING
up to 0,04 m <sup>2</sup> K/W	up to 0,03 m <sup>2</sup> K/W	up to 0,04 m <sup>2</sup> K/W	up to 0,01 m <sup>2</sup> K/W	up to 0,01m <sup>2</sup> K/W	THERMAL INSULATION
>150 m	>75 m	>150 m	>75 m	>75 m	SD



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