



Underlays for
laminate,
multilayer wood,
multilayer modular,
solid wood and
dryback LVT
flooring systems.

Product range 2022



*Simply perfect floor.
Every time.*



Welcome to Fair Underlay – rising, polish brand of professional floor underlays. Within Fair Packaging Group we have a strong technological base and years of experience in foaming and processing of polyethylene. Since 2003 we are developing our competences in the field flooring industry standards and requirements. Research on market trends and orientation on Customer's needs allowed us to develop a unique products with excellent value for money.

I am proud to present the results of our intensive work during last years, both in terms of product development and communication. All of this would not be possible without excellent team, that I am pleased to lead, from the production, sourcing, quality management, customer service, product development, marketing up to sales.

I invite you to get familiar with our new range of Fair Underlay products, diversified to fit different floor types and market segments. Find unique values in terms of utility and durability. Use our R&D laboratory to compare key parameters of products available on the market. Become our partner, because we put partnership over sales. Start using our unique marketing support and tools, that no other company in the market can offer you.

It is only the beginning – be the first to start!

Fair Underlay – simply fair.

Mateusz Prętki
CEO

• The flooring industry.



The establishment of the Fair Underlay brand was a consequence of our interest in the flooring industry. From the very beginning, under this brand, we focused on developing and delivering solutions supporting the installation process and ensuring satisfactory and long-term use of the floor. To achieve this, the highest quality of the product is not enough. Knowledge and experience are important, but the most important thing is to follow the flooring industry in terms of legal

regulations, requirements, standards and manufacturers' recommendations. In 2020, Fair Underlay, as the first Polish company, joined two prestigious organizations associating the largest European floor manufacturers - EPLF and MMFA. We treat it as a great distinction and at the same time a great responsibility, because we want to actively participate in shaping the flooring industry not only in Europe, but also around the world.



m
m
f
a

c The company.



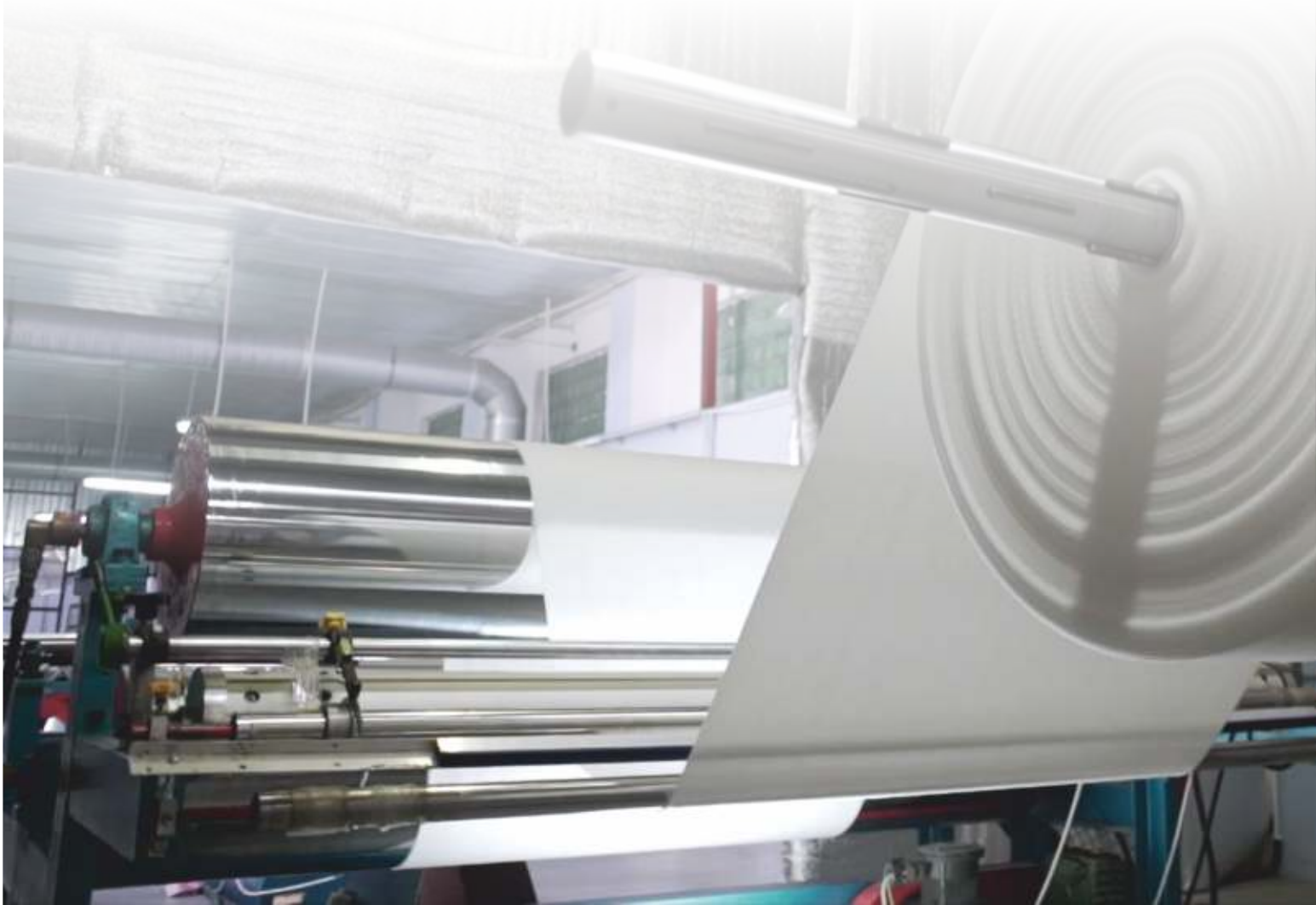
Fair Underlay is part of the Fair Packaging Group - a well-known Polish producer and processor of plastics. The production plant and logistics center are located in western Poland, near Poznań. From there, we deliver our products to over 20 countries in Europe and beyond, supplying more than 30 DIY brands. Our main products are foamed polyethylene and a special composition of natural rubber invented by us in 2016 and manufactured under the proprietary name of RWS Barrier.

RWS Barrier is the basis for the highest quality Fair Underlay floor underlays, ensuring the best soundproofing of the floor.

We have established our own research laboratory, which not only ensures constant control of key parameters of manufactured materials, but also conducts research and development works on new technologies and composites used in the production of innovative packaging materials and floor underlays.



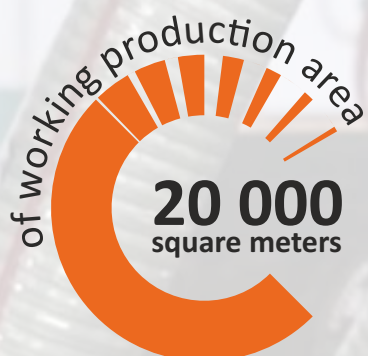
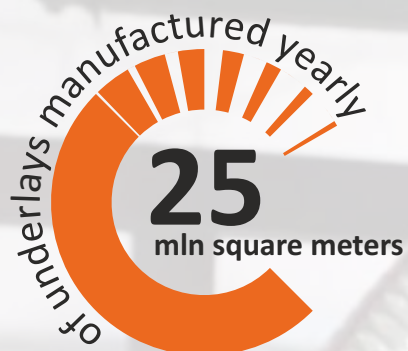
☪ The factory.



Our production facility covers an area of over 20,000 square meters. We produce 25 million square meters of floor underlays yearly. They are installed under the floors of both apartments, houses and commercial buildings.

The Fair Packaging team counts 150 employees. The production area is

divided into 6 zones in which foamed polyethylene and natural rubber are subjected to various processing cycles. In 2021, we will achieve the production capacity of 5,000 rolls of floor underlays per day.



c The technology.

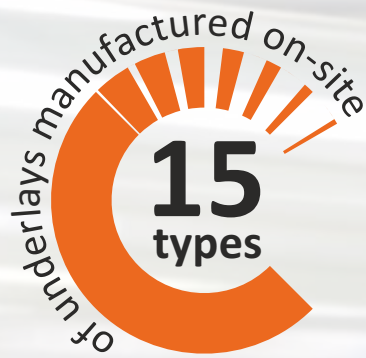


We have developed over 15 different types of material composites for the production of floor underlays with various functional and installation properties.

Our production process is 100% on-site. We do not cooperate with external companies in the production process. From the input of the raw material to the output of packed finished product, the entire production

process is carried out and controlled by our employees.

From the beginning of its production activity, Fair Packaging has focused on responsible waste management. We have our own recycling installations, enabling the recycling of 100% of technological waste from the production of plastics in the form of regranulate for reprocessing.



BASE *line*

Page 14-23

SPECIAL *line*

Page 24-29

MAX *line*

Page 30-37

LVT *line*

Page 38-45

ENGINEERED *line*

Page 46-51

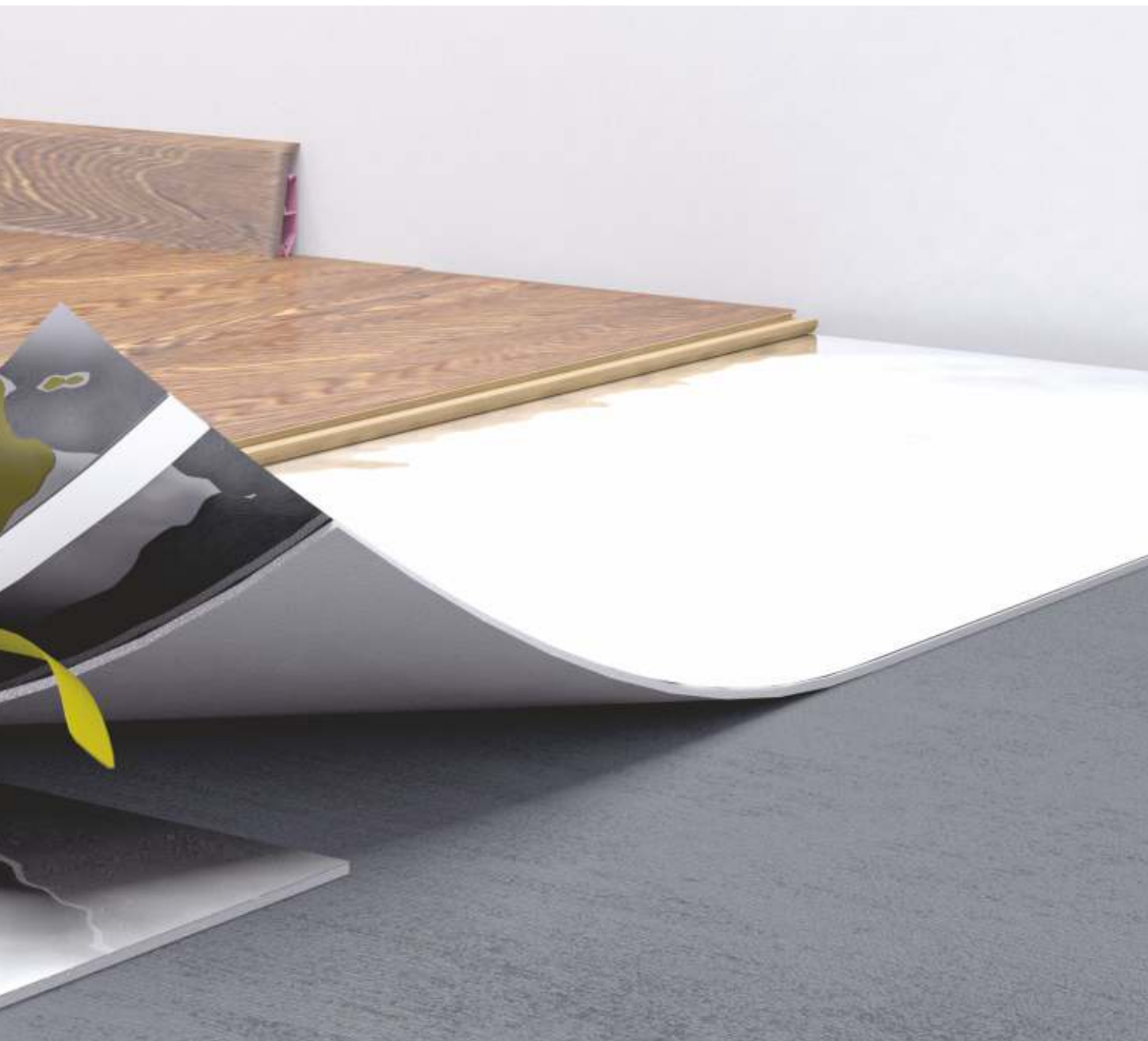
EXTREME *line*

Page 52-57

BASE*line*



One of the most important tips for a professional installation is the quality of vapor barrier. The SD value of this barrier needs to be better than 75 m. In other case, laminate floor warranty is void.

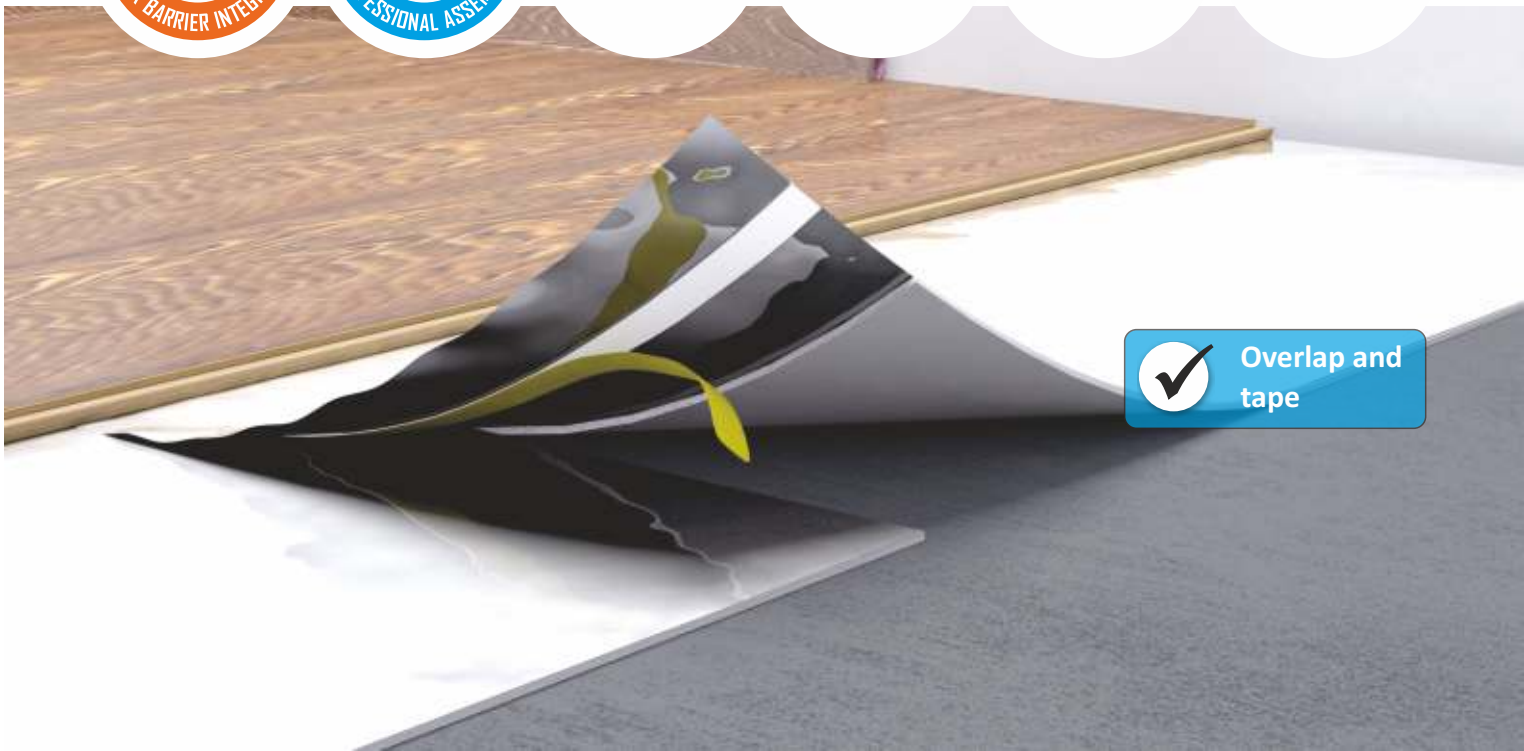


BASE line represents economical products offering basic functionalities and parameters required by laminate floor producers.

In this range you will find both simple and advanced products, targeting different end-users and offering valuable advantages over generic PE foam and XPS.

BaseALUPro

Low density polyethylene underlay with integrated, metalised vapor barrier and overlap for fast assembly and good local unevenness compensation capability.



Product compatibility

- ✓ Laminate consumer floors.
- ✓ Engineered consumer floors.

Product highlights

- ✓ Closed cells LDPE foam.
- ✓ Integrated vapor barrier with overlap and tape for fast installation.
- ✓ Slippery surface.
- ✓ No wave effect.

Symbol	Category	Value/Unit		Test methods
T	Thickness	2 mm	± 10%	EN823
L	Length	15 000 mm	± 4%	EN822
W	Width	1 000 mm	± 2%	EN822
AW	Area weight	0,07 kg/m ²	± 10%	EN ISO 23997:2012
QW	Density	18 kg/m ³	± 10%	EN ISO 23996:2012
RWS	Reflected walking sound improvement	3* %	± 2	IHD-W431
IS	Impact sound reduction	18 dB	± 2	EN 16354:2018
CS	Temporary loads resistance	10 kPa	± 10	EN 16354:2018
CC	Static loads (furniture) resistance	> 2* kPa		EN 16354:2018
DL	Dynamic loads (walking) resistance	< 10 000* cycles		EN 16354:2018
PC	Local unevenness compensation	1,55 mm	± 10%	EN 16354:2018
TR	Thermal insulation	0,050* m ² K/W	± 0,003	EN 16354:2018
SD	Protection against moisture	> 75 m		EN 16354:2018
RLB	Protection against falling objects	1 500* mm	± 50	EN 16354:2018
RTF	Reaction to fire	E _{fl}		EN-ISO11925-2, PN-EN13501-1

Logistic Parameter	Sales unit	Packaging	Palette
Form	Roll	---	Corrugated box
Quantity	1 Pc.	---	24 Rolls
Area	15m ²	---	360m ²
Weight	1,05kg ± 10%	---	25,2kg ± 10%



BaseSDPro

Low density polyethylene underlay with reinforced, integrated vapor barrier of SD>75m, overlap for fast assembly and good impact sound reduction capability.



Overlap and
tape



Impact sound
reduction

Product compatibility

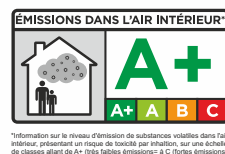
- ✓ Laminate consumer floors.
- ✓ Engineered consumer floors.

Product highlights

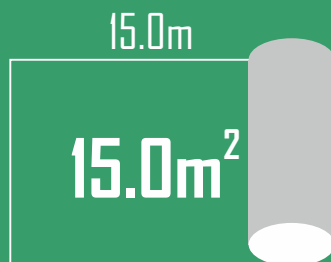
- ✓ Closed cells LDPE foam.
- ✓ Integrated vapor barrier with overlap and tape for fast installation.
- ✓ Good impact sound reduction.
- ✓ Slippery surface.
- ✓ No wave effect.

Symbol	Category	Value/Unit		Test methods
T	Thickness	2 mm	± 10%	EN823
L	Length	15 000 mm	± 4%	EN822
W	Width	1 000 mm	± 2%	EN822
AW	Area weight	0,19 kg/m ²	± 10%	EN ISO 23997:2012
QW	Density	18 kg/m ³	± 10%	EN ISO 23996:2012
RWS	Reflected walking sound improvement	3* %	± 2	IHD-W431
IS	Impact sound reduction	19 dB	± 2	EN 16354:2018
CS	Temporary loads resistance	10* kPa	± 10	EN 16354:2018
CC	Static loads (furniture) resistance	> 2* kPa		EN 16354:2018
DL	Dynamic loads (walking) resistance	< 10 000* cycles		EN 16354:2018
PC	Local unevenness compensation	1,55 mm	± 10%	EN 16354:2018
TR	Thermal insulation	0,050* m ² K/W	± 0,003	EN 16354:2018
SD	Protection against moisture	> 75 m		EN 16354:2018
RLB	Protection against falling objects	1 500* mm	± 50	EN 16354:2018
RTF	Reaction to fire	E _{fl}		EN-ISO11925-2, PN-EN13501-1

Logistic Parameter	Sales unit	Packaging	Palette
Form	Roll	---	Corrugated box
Quantity	1 Pc.	---	24 Rolls
Area	15m ²	---	360m ²
Weight	2,85kg ± 10%	---	68,4kg ± 10%



10E



Base3D

Low density polyethylene underlay with unique, 3-dimensional structural layer for enhanced local unevenness compensation.



Vapor barrier
required!



Local unevenness
compensation

Product compatibility

- ✓ Laminate consumer floors.
- ✓ Engineered consumer floors.

Product highlights

- ✓ Closed cells LDPE foam.
- ✓ 3D structural layer for impressive local unevenness compensation capability.
- ✓ Slippery surface.
- ✓ No wave effect.

Symbol	Category	Value/Unit		Test methods
T	Thickness	2 mm	±10%	EN823
L	Length	15 000 mm	±4%	EN822
W	Width	1 000 mm	±2%	EN822
AW	Area weight	0,13 kg/m ²	±10%	EN ISO 23997:2012
QW	Density	18 kg/m ³	±10%	EN ISO 23996:2012
RWS	Reflected walking sound improvement	3* %	±2	IHD-W431
IS	Impact sound reduction	19 dB	±2	EN 16354:2018
CS	Temporary loads resistance	8 kPa	±10	EN 16354:2018
CC	Static loads (furniture) resistance	>2* kPa		EN 16354:2018
DL	Dynamic loads (walking) resistance	<10 000* cycles		EN 16354:2018
PC	Local unevenness compensation	1,65 mm	±10%	EN 16354:2018
TR	Thermal insulation	0,050* m ² K/W	±0,003	EN 16354:2018
SD	Protection against moisture	>75 m		EN 16354:2018
RLB	Protection against falling objects	1 500* mm	±50	EN 16354:2018
RTF	Reaction to fire	---		EN-ISO11925-2,PN-EN13501-1

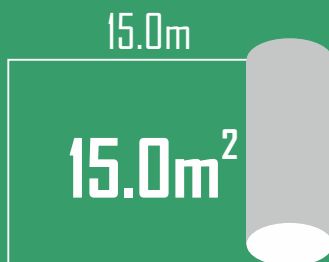
Logistic Parameter	Sales unit	Packaging	Palette
Form	Roll	---	Corrugated box
Quantity	1 Pc.	---	24 Rolls
Area	15m ²	---	360m ²
Weight	1,89kg ± 10%	---	45,36kg ± 10%



*Information sur le niveau d'émission de substances volatiles dans l'air intérieur, présentant un risque de toxicité par inhalation, sur une échelle de classes allant de A+ (très faibles émissions) à C (fortes émissions)

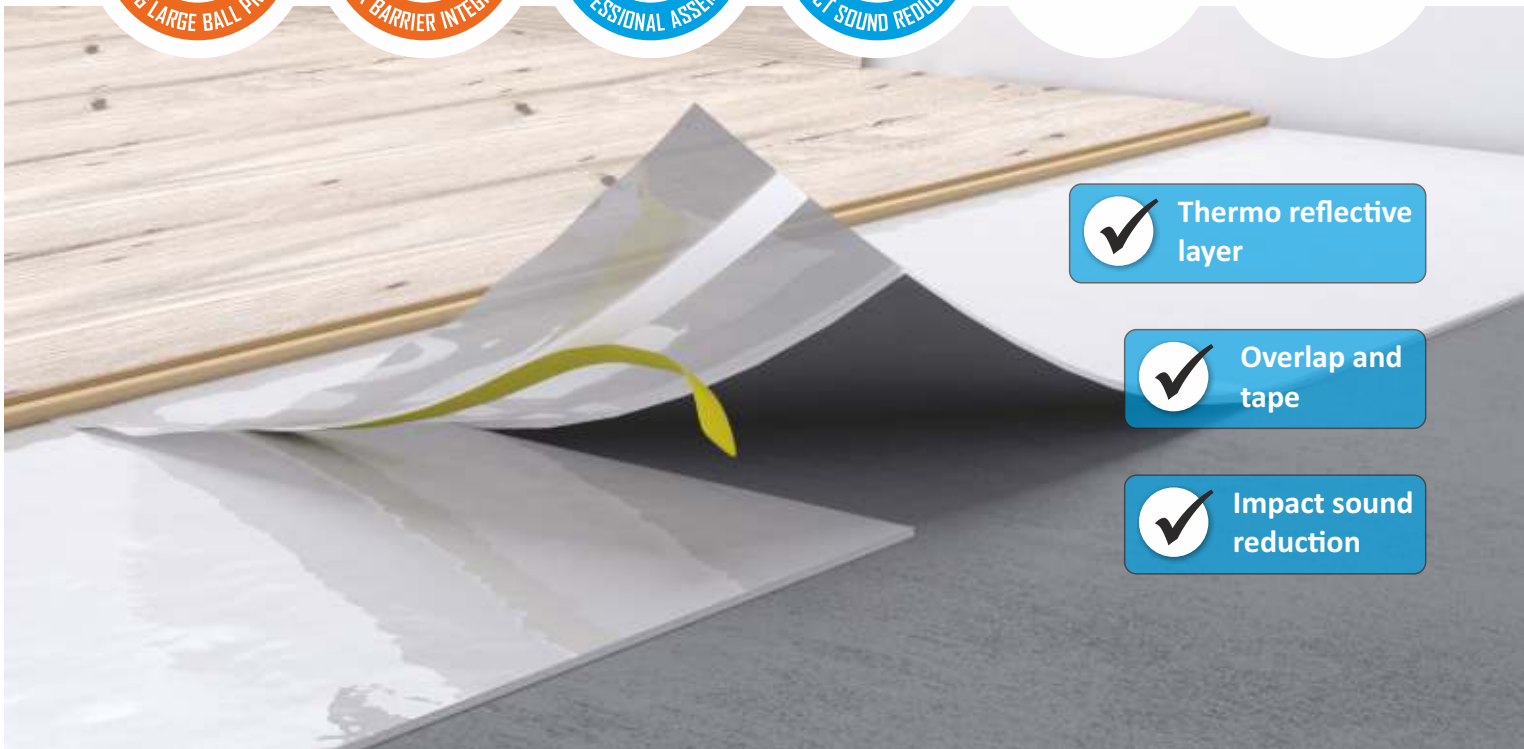


10E



BaseCOMBIPro

Medium density polyethylene underlay with unique, 3-layer structure composed of reinforced vapor barrier of SD>104m and metallised, thermo reflective film.



✓ Thermo reflective layer

✓ Overlap and tape

✓ Impact sound reduction

Product compatibility

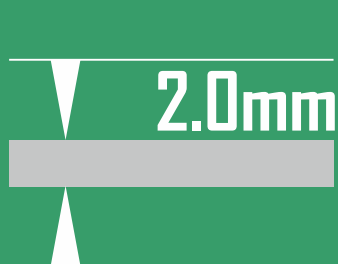
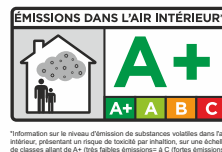
- ✓ Laminate consumer floors.
- ✓ Engineered consumer floors.

Product highlights

- ✓ Closed cells MDPE foam.
- ✓ 3-layer structure for a wide range of applications.
- ✓ Integrated, reinforced vapor barrier with overlap and tape for fast assembly.
- ✓ Metallised thermo-reflective film for enhanced protection against heat loss.
- ✓ Slippery surface.
- ✓ No wave effect.

Symbol	Category	Value/Unit		Test methods
T	Thickness	2 mm	± 10%	EN823
L	Length	15 000 mm	± 4%	EN822
W	Width	1 000 mm	± 2%	EN822
AW	Area weight	0,24 kg/m ²	± 10%	EN ISO 23997:2012
QW	Density	30 kg/m ³	± 10%	EN ISO 23996:2012
RWS	Reflected walking sound improvement	5* %	± 2	IHD-W431
IS	Impact sound reduction	19 dB	± 2	EN 16354:2018
CS	Temporary loads resistance	21 kPa	± 10	EN 16354:2018
CC	Static loads (furniture) resistance	> 2 kPa		EN 16354:2018
DL	Dynamic loads (walking) resistance	< 10 000 cycles		EN 16354:2018
PC	Local unevenness compensation	1,30 mm	± 10%	EN 16354:2018
TR	Thermal insulation	0,050* m ² K/W	± 0,003	EN 16354:2018
SD	Protection against moisture	> 104 m		EN 16354:2018
RLB	Protection against falling objects	1 800 mm	± 50	EN 16354:2018
RTF	Reaction to fire	---		EN-ISO11925-2, PN-EN13501-1

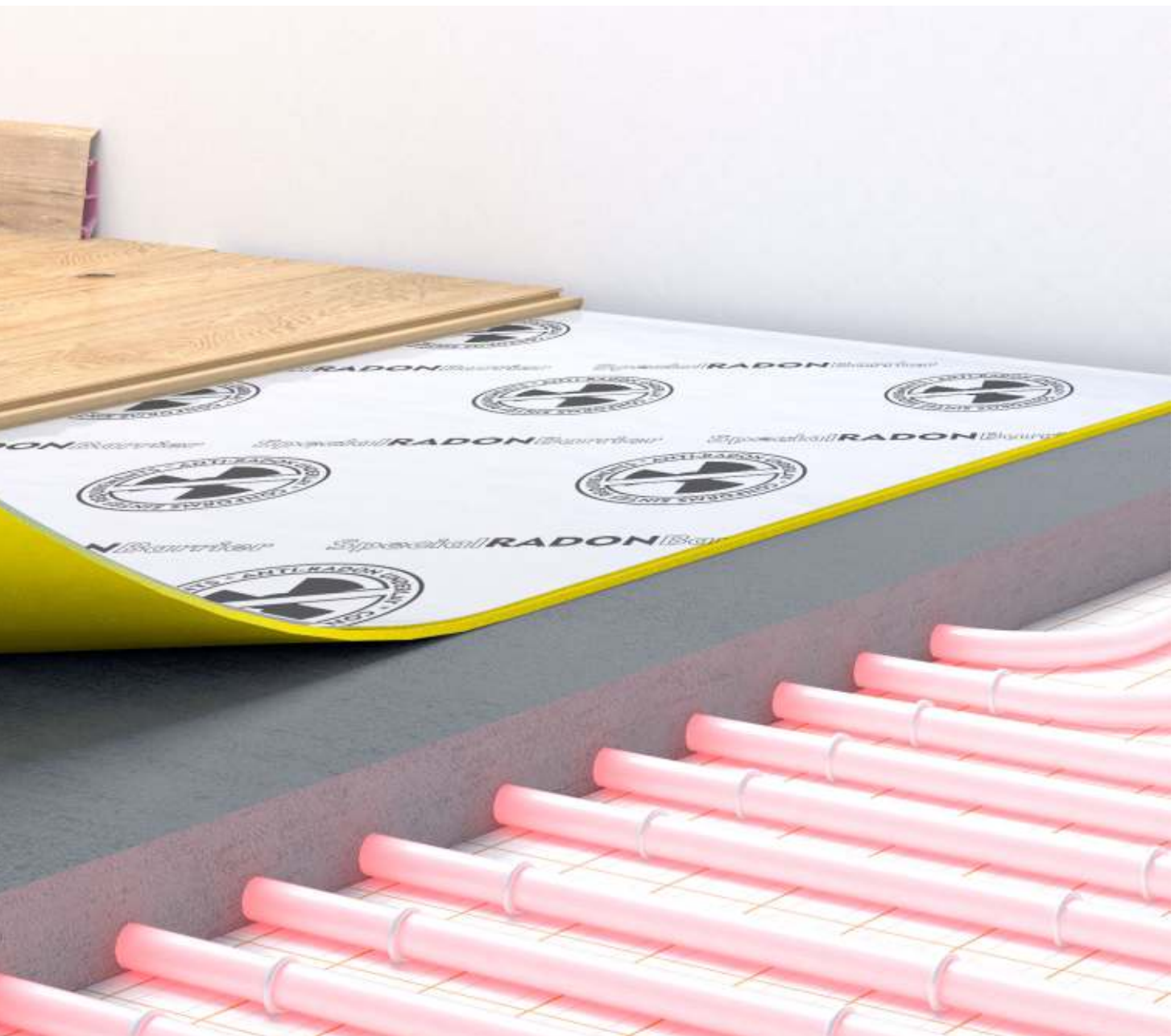
Logistic Parameter	Sales unit	Packaging	Palette
Form	Roll	---	Corrugated box
Quantity	1 Pc.	---	24 Rolls
Area	15m ²	---	360m ²
Weight	3,6kg ± 10%	---	86,4kg ± 10%



SPECIAL *line*



When an installer's challenge arises, it is worth to bet on a verified and experienced producer. Some problems need a specialized underlay to solve them. I choose top tier producer because I prefer not to risk.



SPECIAL line products are offering unique functionalities and are beyond the scope of regular floor underlays, in the same time being top quality products. In this group you can find products that are not available anywhere else on the market.

SpecialRADONBarrier

A specialized, 6-layer floor underlay, tested at the Institute of Nuclear Physics of the Polish Academy of Sciences and Aalborg Universitet København, equipped with an integrated radon barrier with efficiency far exceeding European standards, including "SBI 2016:21, Lufttæthed af materialer til radonsikring – Testmetode". It serves to protect residential buildings against penetration of radioactive RADON gas through the floating floor layers. Compliant with all the high EPLF requirements for floors loaded with heavy traffic.

This product is a part of Anti-RADON System and requires Special RADON Tape to ensure its full functionality.



Overlap and
butyl tape



Floor heating
compatibility



Product compatibility

- ✓ Laminate commercial floors.
- ✓ Engineered commercial floors.

Product highlights

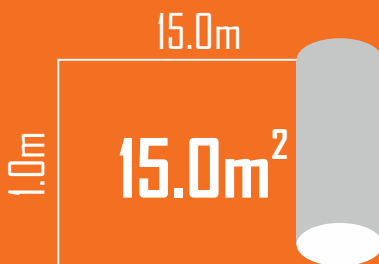
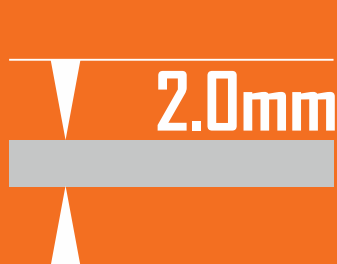
- ✓ Closed cells HDPE foam.
- ✓ Very good floor heating compatibility.
- ✓ Integrated 6-layer moisture and RADON barrier with overlap and butyl tape for fast installation and perfect protection against RADON.

- ✓ Radon Transmittance (P)<6,8*10⁻¹¹m/s
- ✓ Radon Resistance (Z)>1,5*10⁻¹⁰s/m.
- ✓ Radon Permeability (k)<1,4*10⁻¹³m²/s.
- ✓ Tested according to "SBI 2016:21, Lufttæthed af materialer til radonsikring – Testmetode", Test Report SBI 2018:06.
- ✓ Slippery surface.
- ✓ No wave effect.

Symbol	Category	Value/Unit		Test methods
T	Thickness	2 mm	± 10%	EN823
L	Length	15 000 mm	± 4%	EN822
W	Width	1 000 mm	± 2%	EN822
AW	Area weight	0,47 kg/m ²	± 10%	EN ISO 23997:2012
QW	Density	100 kg/m ³	± 10%	EN ISO 23997:2012
(P)	Radon Transmittance	< 6,8*10 ⁻¹¹ m/s		LER IFJ PAN (RG ed. 4)
(Z)	Radon Resistance	> 1,5*10 ⁻¹⁰ s/m		LER IFJ PAN (RG ed. 4)
(k)	Radon Permeability	< 1,4*10 ⁻¹³ m ² s		LER IFJ PAN (RG ed. 4)
q ₃₀	Air flow (30Pa pressure diff.)	16,6 l/min		SBi 2016:21
RWS	Reflected walking sound improvement	12' %	± 2	IHD-W431
IS	Impact sound reduction	20 dB	± 2	EN 16354:2018
CS	Temporary loads resistance	60 kPa	± 10	EN 16354:2018
CC	Static loads (furniture) resistance	> 25 kPa		EN 16354:2018
DL	Dynamic loads (walking) resistance	> 100 000' cycles		EN 16354:2018
PC	Local unevenness compensation	1,10 mm	± 10%	EN 16354:2018
TR	Thermal insulation	0,040' m ² K/W	± 0,003	EN 16354:2018
SD	Protection against moisture	> 100 m		EN 16354:2018
RLB	Protection against falling objects	1 200 mm	± 50	EN 16354:2018
RTF	Reaction to fire	---		EN-ISO11925-2, PN-EN13501-1

Overlap butyl tape parameter	Test method	Value	Unit
Length	PN-EN 1848-2	105 -0/+0,2	m
Width	PN-EN 1848-2	30 ± 2,0	mm
Thickness of the butyl layer [mm]	PN-EN 1848-2	0,7 ± 0,1	mm
Color	---	black	
Density at 25°C	PN-EN ISO 1183-1	1,73 ± 0,05	g/cm ³
Adhesion	PN-EN 1939	≥ 9,0	N/10mm
Working temperatures	---	from -40°C to +90°C	
Application temperatures	---	from +5°C to +40°C	
Resistance to weather conditions	---	minimum 3 months	

Logistic Parameter	Sales unit	Packaging	Palette
Form	Roll	---	Corrugated Box
Quantity	1 Pc.	---	20 rolls
Area	15m ²	---	300m ²
Weight	7,0kg ± 10%	---	140,0kg ± 10%



SpecialRADONTape

Thermoplastic self-adhesive tape designed for connections that do not transmit mechanical loads. Excellent adhesion to most building materials. It is self-vulcanizing with the ground. Resistant to water, humidity and atmospheric influences. Allows immediate sealing. The product is a tape covered on its entire width on one side with a layer of aluminum and on the other with butyl. The chemical base of the product is butyl rubber. The product does not contain any solvents.

This product is a part of Anti-RADON System and requires Special RADON Barrier underlay to ensure its full functionality.



Product compatibility

- ✓ Laminate commercial floors.
- ✓ Engineered commercial floors.



Product highlights

Flexible vapor tape with excellent adhesion to most building materials, including acrylic glass and polycarbonates. The layer of butyl binder over the entire width of the tape provides the ideal diffusion protection for gases and water vapor.

Slightly stretchable and flexible - takes over building movements. Roofing of chimneys, antenna masts, roof hatches, etc. Sealing of seams, tears, crevices and leaks in gutters, chimneys, corrugated roof coverings, roof elements, roof windows, domes, external window sills. After gluing, the tape should be protected against UV. Vapor barrier seals on the inside of the room, especially in passive and energy-saving houses. Fixing and sealing of construction films and membranes for various substrates in roofing, traditional wooden construction and frame constructions.

Overlap butyl tape parameter	Test method	Value	Unit
Length	PN-EN 1848-2	25 -0/+0,2	m
Width	PN-EN 1848-2	70 ±2,0	mm
Thickness of the butyl layer [mm]	PN-EN 1848-2	0,6 ±0,1	mm
Color	---	grey	
Density at 25°C	PN-EN ISO 1183-1	1,73 ±0,05	g/cm ³
Adhesion	PN-EN 1939	≥9,0	N/10mm
Tensile strength	PN-EN 121311-3	≥2,0	MPa
Relative elongation at break	PN-EN 121311-3	≥30	%
Diffusion resistance SD	PN-EN ISO 12572	≥1500	m
Working temperatures	---	from -40°C to +90°C	
Application temperatures	---	from +5°C to +40°C	
Resistance to weather conditions	---	minimum 3 months	

Logistic Parameter	Sales unit	Packaging	Palette
Form	Roll	Corrugated box	---
Quantity	1 Pc.	1 Pc.	192 Pc.
Dimensions	70mm x 25m	18 x 16 x 8cm	4800 lm

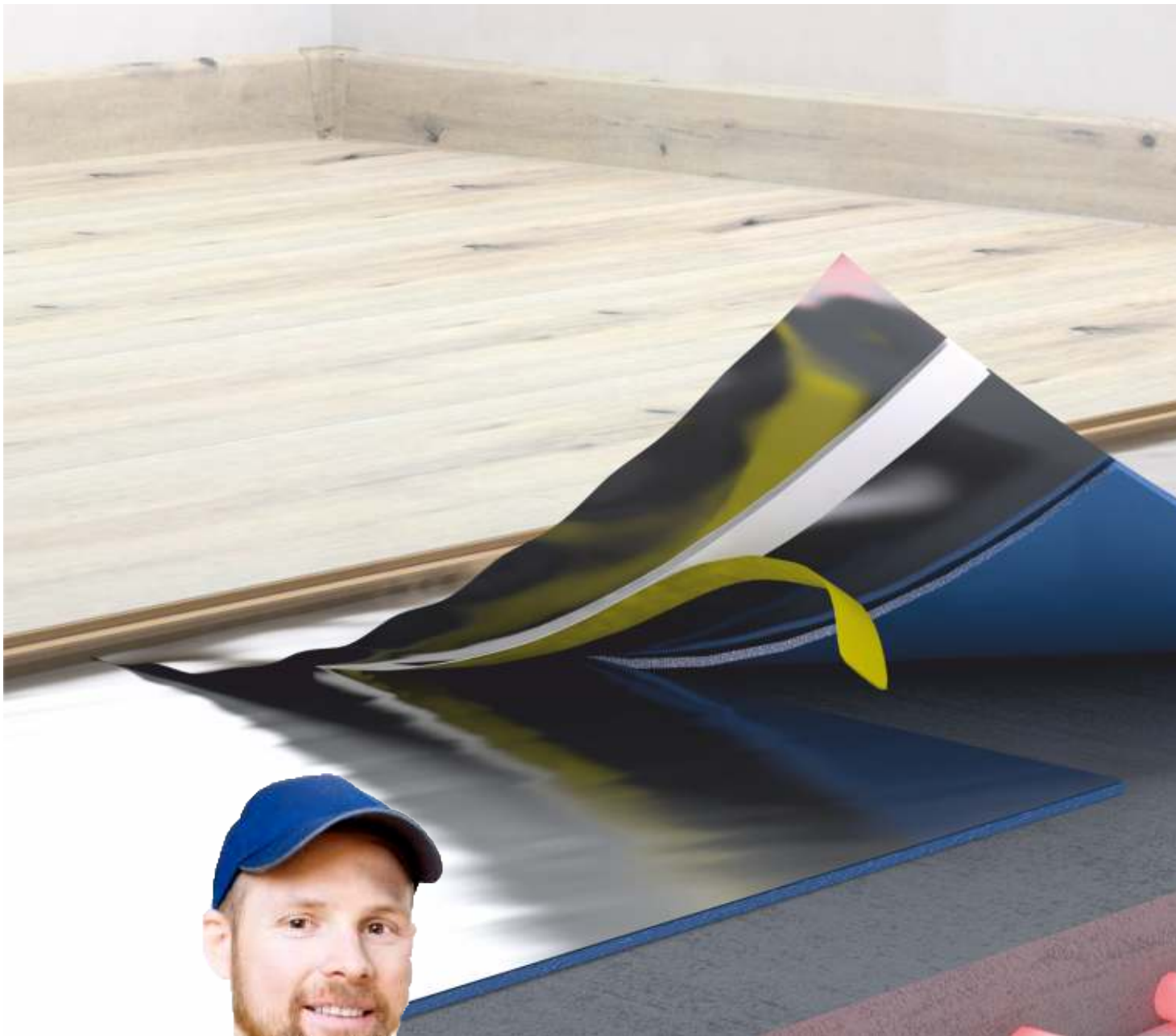


70mm

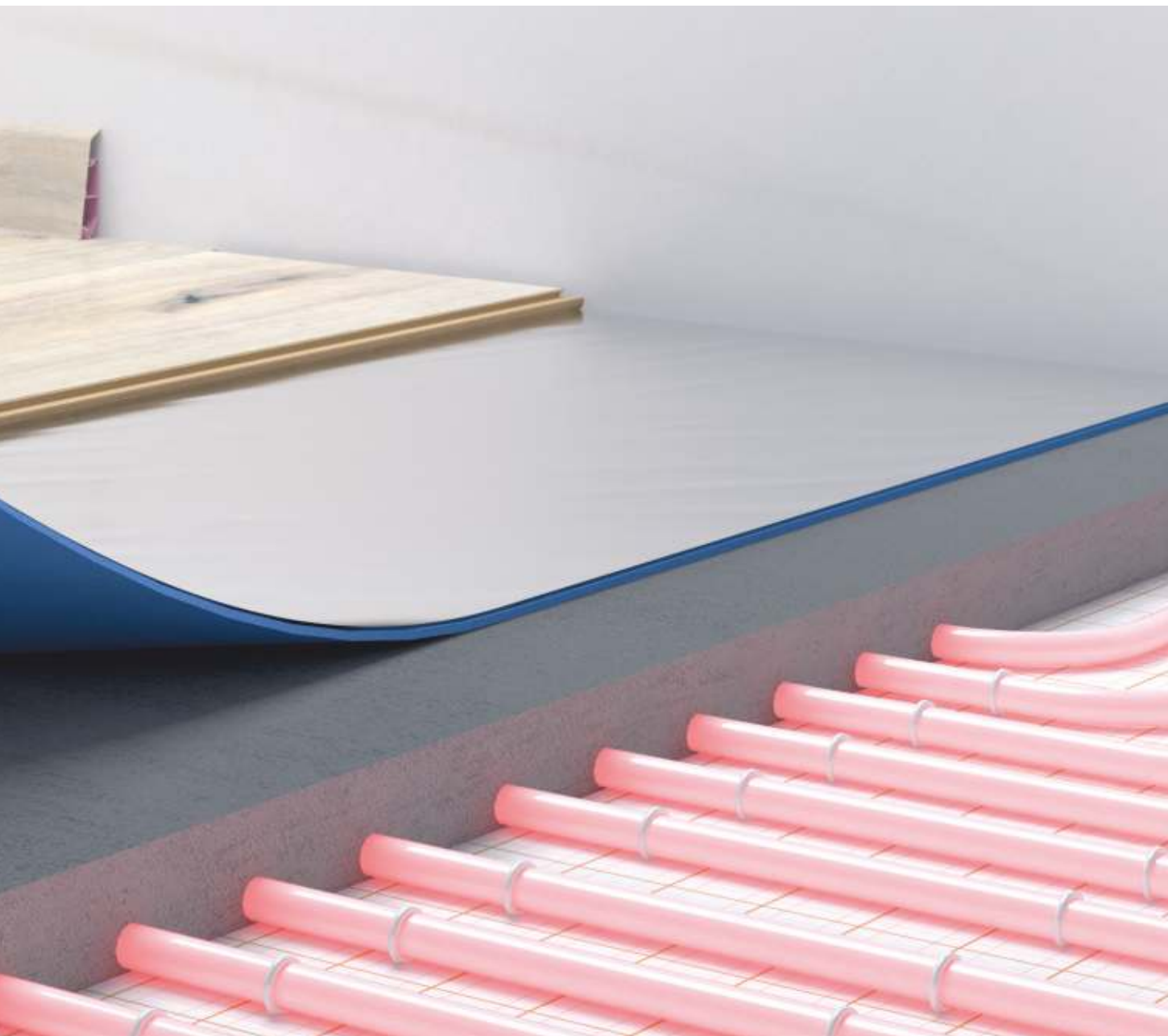
25.0m
seals up to
20m²
of underlay



MAX line



When installing a floor in the intensively used room or office, I always recommend an underlay that can handle heavy loads. There is even a parameter for this ability: Compressive Strength (CS). It needs to be 60 kPa or more.



MAX line products are offering best value-for-money. All the products in this range can support heavy loaded floors, are compatible with floor heating and cooling systems and offer very good sound insulation. Those products are suitable for installation in both commercial and residential buildings.

MaxONE

High density polyethylene underlay for heavy loaded, both residentially and commercially used floors, suitable for floor heating.



Vapor barrier
required!



Floor heating
compatibility

Product compatibility

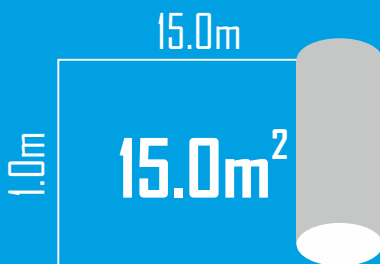
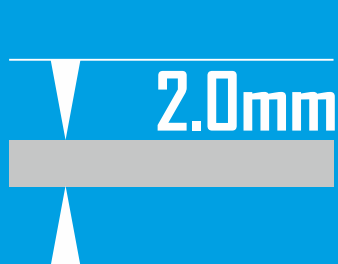
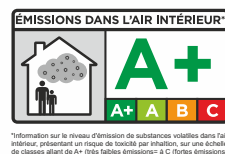
- ✓ Laminate commercial floors.
- ✓ Engineered commercial floors.

Product highlights

- ✓ Closed cells HDPE foam.
- ✓ Very good floor heating compatibility.
- ✓ Slippery surface.
- ✓ No wave effect.

Symbol	Category	Value/Unit		Test methods
T	Thickness	2 mm	± 10%	EN823
L	Length	15 000 mm	± 4%	EN822
W	Width	1 000 mm	± 2%	EN822
AW	Area weight	0,20 kg/m ²	± 10%	EN ISO 23997:2012
QW	Density	100 kg/m ³	± 10%	EN ISO 23996:2012
RWS	Reflected walking sound improvement	12 %	± 2	IHD-W431
IS	Impact sound reduction	19 dB	± 2	EN 16354:2018
CS	Temporary loads resistance	60 kPa	± 10	EN 16354:2018
CC	Static loads (furniture) resistance	> 25* kPa		EN 16354:2018
DL	Dynamic loads (walking) resistance	> 100 000* cycles		EN 16354:2018
PC	Local unevenness compensation	1,4 mm	± 10%	EN 16354:2018
TR	Thermal insulation	0,036 m ² K/W	± 0,003	EN 16354:2018
SD	Protection against moisture	< 75 m		EN 16354:2018
RLB	Protection against falling objects	1 150 mm	± 50	EN 16354:2018
RTF	Reaction to fire	E _{fl}		EN-ISO11925-2, PN-EN13501-1

Logistic Parameter	Sales unit	Packaging	Palette
Form	Roll	---	Corrugated box
Quantity	1 Pc.	---	24 Rolls
Area	15m ²	---	360m ²
Weight	3kg ± 10%	---	72kg ± 10%



MaxSDPro

High density polyethylene underlay with integrated PE vapor barrier and increased impact sound reduction, suitable for floor heating.



$\Delta L_{in}=10\text{dB}$ conformance for Dutch residential buildings



Overlap and tape



Floor heating compatibility

Product compatibility

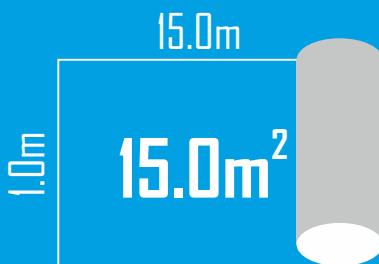
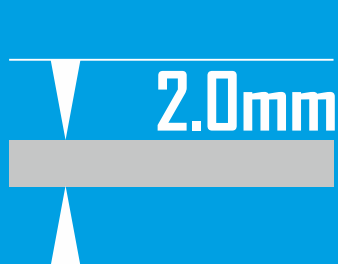
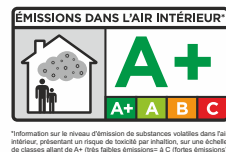
- ✓ Laminate commercial floors.
- ✓ Engineered commercial floors.

Product highlights

- ✓ Closed cells HDPE foam.
- ✓ Very good floor heating compatibility.
- ✓ **Improved impact sound reduction ($\Delta L_{in}=10\text{dB}$, $\Delta L_w=20\text{dB}$) for better privacy protection.**
- ✓ Integrated vapor barrier with overlap and tape for fast installation.
- ✓ Slippery surface.
- ✓ No wave effect.

Symbol	Category	Value/Unit		Test methods
T	Thickness	2 mm	±10%	EN823
L	Length	15 000 mm	±4%	EN822
W	Width	1 000 mm	±2%	EN822
AW	Area weight	0,35 kg/m ²	±10%	EN ISO 23997:2012
QW	Density	100 kg/m ³	±10%	EN ISO 23996:2012
RWS	Reflected walking sound improvement	12* %	±2	IHD-W431
IS	Impact sound reduction (L _w)	20 dB	±2	EN 16354:2018
IS	Impact sound reduction (L _{im})	10 dB	±2	EN 16354:2018
CS	Temporary loads resistance	60 kPa	±10	EN 16354:2018
CC	Static loads (furniture) resistance	>25* kPa		EN 16354:2018
DL	Dynamic loads (walking) resistance	>100 000* cycles		EN 16354:2018
PC	Local unevenness compensation	1,40 mm	±10%	EN 16354:2018
TR	Thermal insulation	0,037* m ² K/W	±0,003	EN 16354:2018
SD	Protection against moisture	>75 m		EN 16354:2018
RLB	Protection against falling objects	1 250 mm	±50	EN 16354:2018
RTF	Reaction to fire	E _{fl}		EN-ISO11925-2,PN-EN13501-1

Logistic Parameter	Sales unit	Packaging	Palette
Form	Roll	---	Corrugated box
Quantity	1 Pc.	---	24 Rolls
Area	15m ²	---	360m ²
Weight	5,25kg ± 10%	---	126kg ± 10%



MaxALUPro

High density polyethylene underlay with integrated, metallized vapor barrier for heavy loaded, both residentially and commercially used floors, suitable for floor heating.



✓ Overlap and tape

✓ Floor heating compatibility

Product compatibility

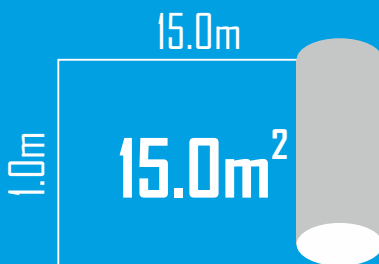
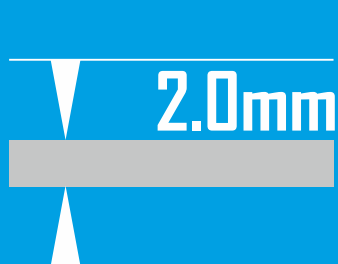
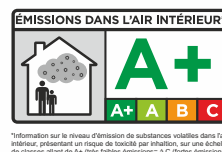
- ✓ Laminate commercial floors.
- ✓ Engineered commercial floors.

Product highlights

- ✓ Closed cells HDPE foam.
- ✓ Very good floor heating compatibility.
- ✓ Integrated vapor barrier with overlap and tape for fast installation.
- ✓ Slippery surface.
- ✓ No wave effect.

Symbol	Category	Value/Unit		Test methods
T	Thickness	2 mm	± 10%	EN823
L	Length	15 000 mm	± 4%	EN822
W	Width	1 000 mm	± 2%	EN822
AW	Area weight	0,23 kg/m ²	± 10%	EN ISO 23997:2012
QW	Density	100 kg/m ³	± 10%	EN ISO 23996:2012
RWS	Reflected walking sound improvement	12* %	± 2	IHD-W431
IS	Impact sound reduction	19* dB	± 2	EN 16354:2018
CS	Temporary loads resistance	60 kPa	± 10	EN 16354:2018
CC	Static loads (furniture) resistance	>25 kPa		EN 16354:2018
DL	Dynamic loads (walking) resistance	>100 000* cycles		EN 16354:2018
PC	Local unevenness compensation	1,40 mm	± 10%	EN 16354:2018
TR	Thermal insulation	0,037* m ² K/W	± 0,003	EN 16354:2018
SD	Protection against moisture	>75 m		EN 16354:2018
RLB	Protection against falling objects	1 250 mm	± 50	EN 16354:2018
RTF	Reaction to fire	E _{fl}		EN-ISO11925-2, PN-EN13501-1

Logistic Parameter	Sales unit	Packaging	Palette
Form	Roll	---	Corrugated box
Quantity	1 Pc.	---	24 Rolls
Area	15m ²	---	360m ²
Weight	3,41kg ± 10%	---	81,7kg ± 10%



LVT *line*



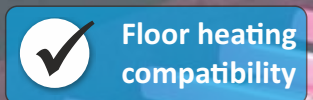
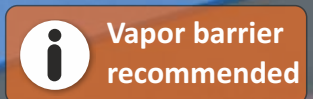
Vinyl floor has many advantages over laminate. However, for this type of floor one of the critical factors is underlay. When installing LVT click, antislip layer of underlay protects the locking system in the floor.



LVT line products are designated to install vinyl floors. You can find underlays with antislip surface, very high compressive strength and even self adhesive layer for DRYBACK LVT installation. In this group we introduce our patented RWS Barrier soundproofing technology for the first time.

LvtANTISLIP^{Max}

High density polyethylene underlay with antislip layer designed for LVT floors with CLICK system, offering very good floor heating compatibility.



Product compatibility

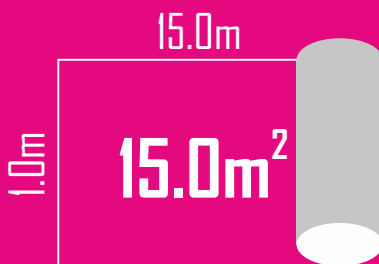
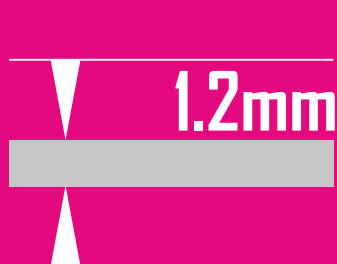
- ✓ Consumer SPC and rigid LVT floors.

Product highlights

- ✓ Closed cells UHD polyethylene foam.
- ✓ Very good floor heating compatibility.
- ✓ Antislip surface for locking system protection.
- ✓ No wave effect.

Symbol	Category	Value/Unit		Test methods
T	Thickness	1,2 mm	± 10%	EN823
L	Length	15 000 mm	± 4%	EN822
W	Width	1 000 mm	± 2%	EN822
AW	Area weight	0,21 kg/m ²	± 10%	EN ISO 23997:2012
QW	Density	130 kg/m ³	± 10%	EN ISO 23996:2012
RWS	Reflected walking sound improvement	12* %	± 2	IHD-W431
IS	Impact sound reduction	18 dB	± 2	EN ISO10140, ISO717-2
CS	Temporary loads resistance	200 kPa	± 10	EN 826:2013+A: FU1:2019
CC	Static loads (furniture) resistance	>50 kPa		EN1606
DL	Dynamic loads (walking) resistance	>100 000 cycles		EN13793
PC	Local unevenness compensation	0,95 mm	± 10%	EN-ISO868
TR	Thermal insulation	0,024* m ² K/W	± 0,003	EN12667:2002 at 24°C
SD	Protection against moisture	<75 m		EN12086
RLB	Protection against falling objects	800 mm	± 50	EN13329, EN438
RTF	Reaction to fire	---		EN ISO11925-2, PN-EN13501-1

Logistic Parameter	Sales unit	Packaging	Palette
Form	Roll	---	---
Quantity	1 Pc.	---	33 Rolls
Area	15m ²	---	495m ²
Weight	3,15kg ± 10%	---	103,95kg ± 10%



LvtALUExtreme

Permanently elastic, heavy underlay with patented RWS Barrier base material, specially developed for LVT designfloors.



Extremely effective
footstep noise reduction

Integrated
vapor barrier

Floor heating
compatibility

RWS Barrier base material defines a new standard for the highest walking noise improvement value. All tests were conducted by the EPH GmbH.

In addition to laboratory tests, end-user experience was confirmed in real life conditions as RWS performance compared to other premium range underlays on the market.

Product compatibility

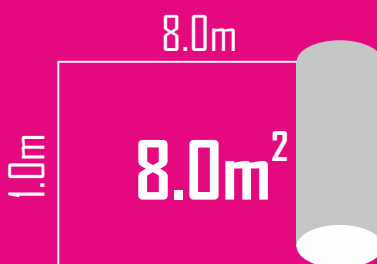
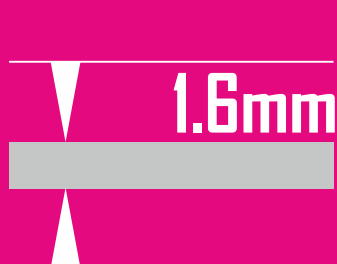
- ✓ Commercial SPC and rigid LVT floors.

Product highlights

- ✓ Outstanding floor heating compatibility.
- ✓ Unrivalled walking sound improvement (RWS) thanks to RWS Barrier.

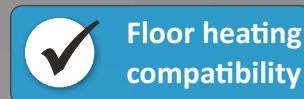
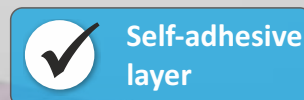
Symbol	Category	Value/Unit		Test methods
T	Thickness	1,6 mm	±10%	EN823
L	Length	8 000 mm	±4%	EN822
W	Width	1 000 mm	±2%	EN822
AW	Area weight	1,40 kg/m ²	±10%	EN ISO 23997:2012
QW	Density	905 kg/m ³	±10%	EN ISO 23996:2012
RWS	Reflected walking sound improvement	33 %	±2	IHD-W431
IS	Impact sound reduction	17 dB	±2	EN ISO10140, ISO717-2
CS	Temporary loads resistance	400 kPa	±10	EN 826:2013+A: FU1:2019
CC	Static loads (furniture) resistance	>50* kPa		EN1606
DL	Dynamic loads (walking) resistance	>100 000* cycles		EN13793
PC	Local unevenness compensation	1,10 mm	±10%	EN-ISO868
TR	Thermal insulation	0,006 m ² K/W	±0,003	EN12667:2002 at 24°C
SD	Protection against moisture	>75 m		EN12086
RLB	Protection against falling objects	650 mm	±50	EN13329, EN438
RTF	Reaction to fire	B _n -s1		EN ISO11925-2, PN-EN13501-1

Logistic Parameter	Sales unit	Packaging	Palette
Form	Roll	---	Corrugated box
Quantity	1 Pc.	---	40 Rolls
Area	8m ²	---	320m ²
Weight	11,2kg ± 10%	---	448kg ± 10%



Lvt DRYBACK Extreme

Permanently elastic, heavy underlay with patented RWS Barrier base material and a adhesive layer, specially developed for LVT Dryback designfloors. Allows for quick and easy montage of vinyl floors in floating floor systems, without the need to compensate ground unevennes or the usage of an adhesive.



NOTE: this underlay is not recommended for LVT DRYBACK floors with thickness less than 2,5mm.

Always eliminate any subfloor unevenness prior to installation. When leaving the subfloor not uneven (as ceramic tiles with grouts or uneven concrete connections) it may reflect those unevennesses on the surface of the DRYBACK floor.

Additionally, some types of DRYBACK floors require glued-down installation, directly on the concrete, because they do not provide sufficient dimensional stability under the conditions of frequent temperature changes, which may lead to local lifting or undulating the floor in places with high sun exposure.

Before installation, we recommend to carry out the appropriate tests or to confirm the possibility of installation in hybrid-floating system in sunny spots directly from the manufacturer of the floor.

Failure to follow above instructions may result in damage to the floor or imperfect floor surface and is not subject to complaint.

RWS Barrier base material defines a new standard for the highest walking noise improvement value. All tests were conducted by the EPH GmbH.

In addition to laboratory tests, end-user experience was confirmed in real life conditions as RWS performance compared to other premium range underlays on the market.

Product compatibility

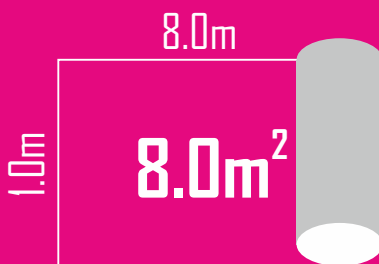
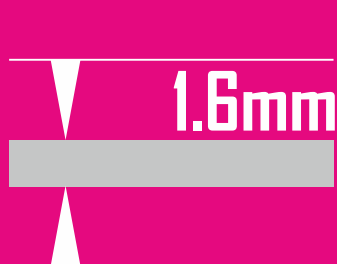
- ✓ Commercial Dryback LVT floors.

Product highlights

- ✓ Outstanding floor heating compatibility.
- ✓ Unrivalled walking sound improvement (RWS) thanks to RWS Barrier.
- ✓ Allows for quick of Dryback floors without the use of an adhesive.
- ✓ Local unevenness compensation up to 1,10 mm allows installation directly on a concrete.

Symbol	Category	Value/Unit		Test methods
T	Thickness	1,6 mm	±10%	EN823
L	Length	8 000 mm	±4%	EN822
W	Width	1 000 mm	±2%	EN822
AW	Area weight	1,58 kg/m ²	±10%	EN ISO 23997:2012
QW	Density	990 kg/m ³	±10%	EN ISO 23996:2012
RWS	Reflected walking sound improvement	33 %	±2	IHD-W431
IS	Impact sound reduction	17 dB	±2	EN ISO10140, ISO717-2
CS	Temporary loads resistance	400 kPa	±10	EN 826:2013+A: FU1:2019
CC	Static loads (furniture) resistance	>50* kPa		EN1606
DL	Dynamic loads (walking) resistance	>100 000* cycles		EN13793
PC	Local unevenness compensation	1,10 mm	±10%	EN-ISO868
TR	Thermal insulation	0,006 m ² K/W	±0,003	EN12667:2002 at 24°C
SD	Protection against moisture	>75 m		EN12086
RLB	Protection against falling objects	650 mm	±50	EN13329, EN438
RTF	Reaction to fire	E _{fl}		EN ISO11925-2, PN-EN13501-1

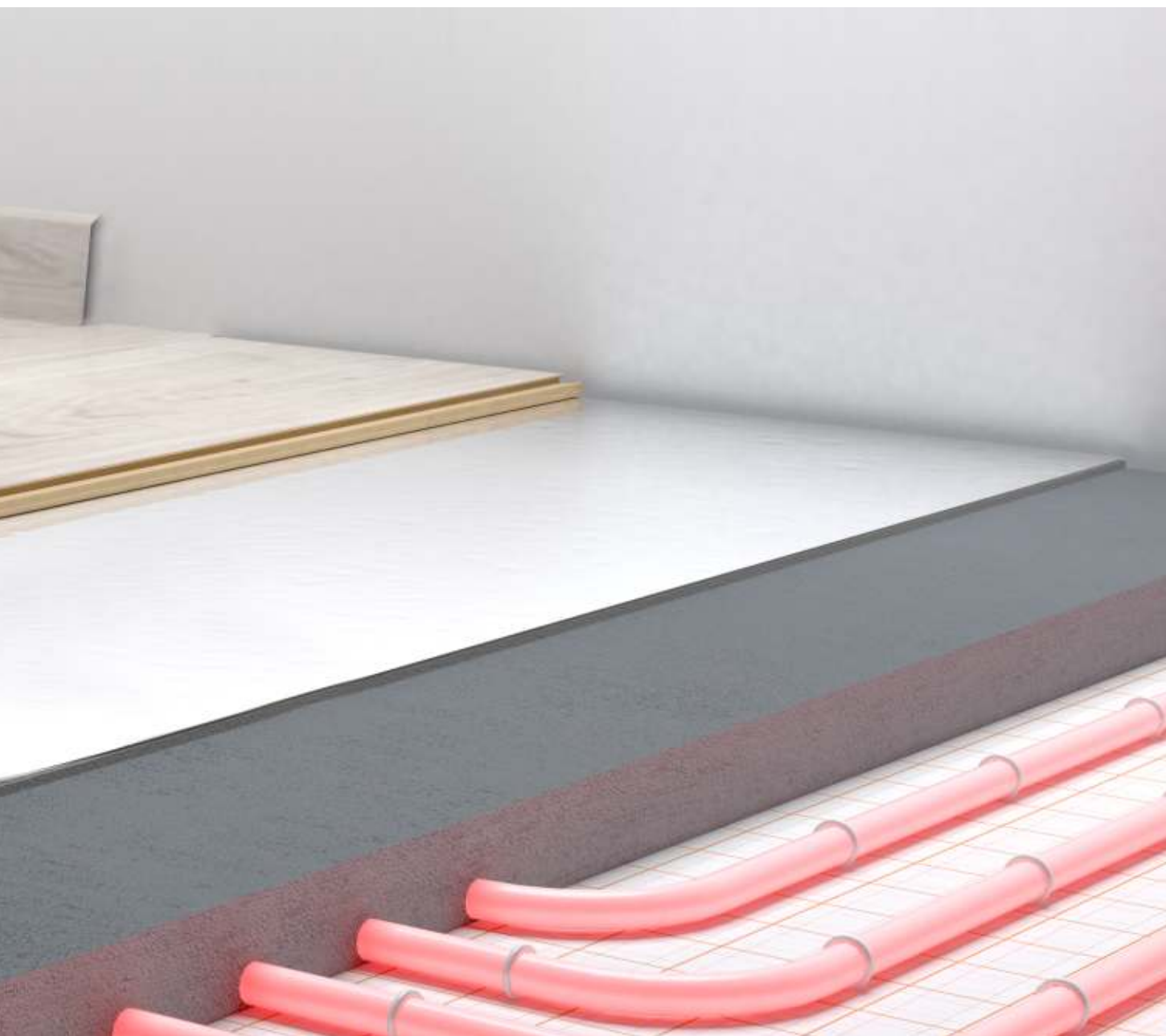
Logistic Parameter	Sales unit	Packaging	Palette
Form	Roll	---	Corrugated box
Quantity	1 Pc.	---	40 Rolls
Area	8m ²	---	320m ²
Weight	12,64kg ± 10%	---	505,6kg ± 10%



ENGINEERED *line*



When an expensive, wooden floor is installed, I need to be sure, that all the installation materials used will fit perfectly. I cannot risk - only a dedicated, quality underlay will ensure my customer's satisfaction.



ENGINEERED line represents top quality products designed especially for wood floors. You can find in this group both products for multilayered wood floors with locking system and specialized solutions for solid wood, glued-down floors.

EngineeredALUExtreme

Permanently elastic, heavy underlay with patented RWS Barrier base material, specially developed for engineered wood floors, installed in a floating floor systems. Provides excellent stability and the highest energetic efficiency when installed on floor heating systems.



Extremely effective
footstep noise reduction



Integrated
vapor barrier



Floor heating
compatibility

RWS Barrier base material defines a new standard for the highest walking noise improvement value. All tests were conducted by the EPH GmbH.

In addition to laboratory tests, end-user experience was confirmed in real life conditions as RWS performance compared to other premium range underlays on the market.

Product compatibility

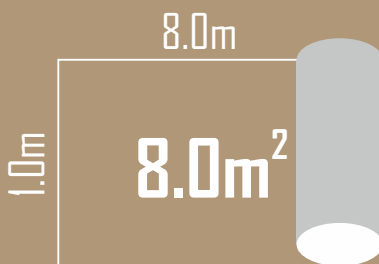
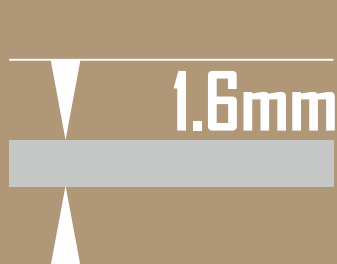
- ✓ Commercial engineered wood floors.

Product highlights

- ✓ Outstanding floor heating compatibility.
- ✓ Unrivalled walking sound improvement (RWS) thanks to RWS Barrier.

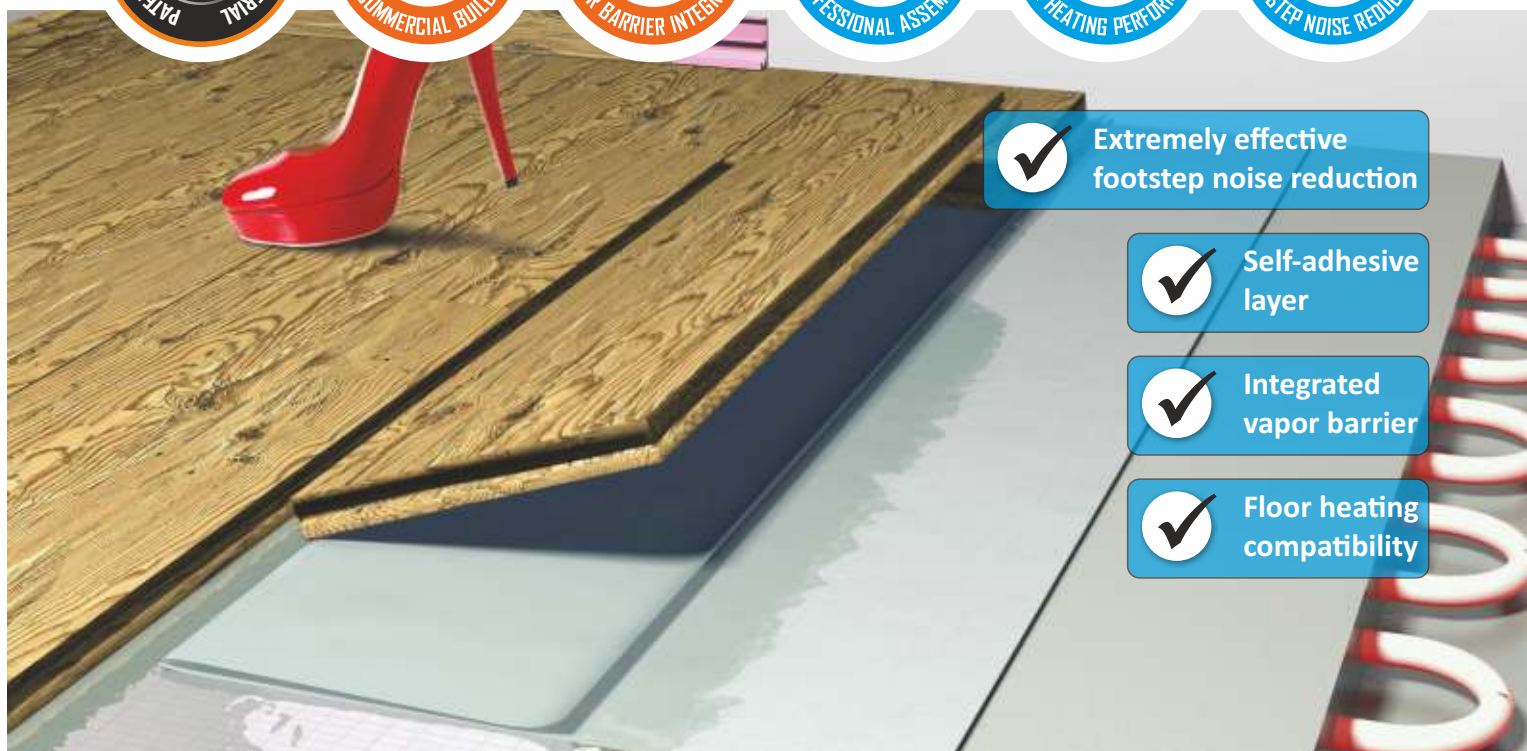
Symbol	Category	Value/Unit		Test methods
T	Thickness	1,6 mm	±10%	EN823
L	Length	8 000 mm	±4%	EN822
W	Width	1 000 mm	±2%	EN822
AW	Area weight	1,45 kg/m ²	±10%	EN ISO 23997:2012
QW	Density	905 kg/m ³	±10%	EN ISO 23996:2012
RWS	Reflected walking sound improvement	33 %	±2	IHD-W431
IS	Impact sound reduction	17 dB	±2	EN 16354:2018
CS	Temporary loads resistance	400 kPa	±10	EN 16354:2018
CC	Static loads (furniture) resistance	>50* kPa		EN 16354:2018
DL	Dynamic loads (walking) resistance	>100 000* cycles		EN 16354:2018
PC	Local unevenness compensation	1,10 mm	±10%	EN 16354:2018
TR	Thermal insulation	0,006 m ² K/W	±0,003	EN 16354:2018
SD	Protection against moisture	>75 m		EN 16354:2018
RLB	Protection against falling objects	650 mm	±50	EN 16354:2018
RTF	Reaction to fire	E _{fl}		EN-ISO11925-2, PN-EN13501-1

Logistic Parameter	Sales unit	Packaging	Palette
Form	Roll	---	Corrugated box
Quantity	1 Pc.	---	40 Rolls
Area	8m ²	---	320m ²
Weight	11,6kg ± 10%	---	464,0kg ± 10%



EngineeredFIXExtreme

Permanently elastic, heavy underlay with patented RWS Barrier base material, specially developed for engineered wood floors, glued to the subfloor. Provided with adhesive film that replaces traditional chemical glues. Allows for immediate exploitation of floor after installation and simplifies its further dissassembly.



RWS Barrier base material defines a new standard for the highest walking noise improvement value. All tests were conducted by the EPH GmbH.

In addition to laboratory tests, end-user experience was confirmed in real life conditions as RWS performance compared to other premium range underlays on the market.

Product compatibility

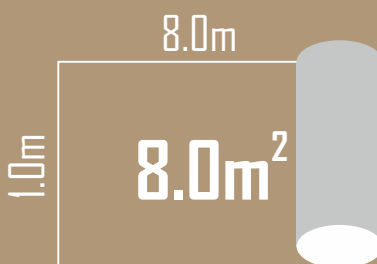
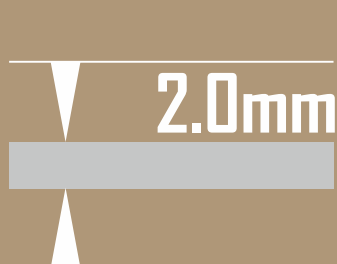
- ✓ Glued-down layered and solid wood floors.

Product highlights

- ✓ Outstanding floor heating compatibility.
- ✓ Unrivalled walking sound improvement (RWS) thanks to RWS Barrier.
- ✓ Adhesive layer for hassle-free installation without the glue.

Symbol	Category	Value/Unit		Test methods
T	Thickness	2,0 mm	±10%	EN823
L	Length	8 000 mm	±4%	EN822
W	Width	1 000 mm	±2%	EN822
AW	Area weight	1,88 kg/m ²	±10%	EN ISO 23997:2012
QW	Density	875 kg/m ³	±10%	EN ISO 23996:2012
RWS	Reflected walking sound improvement	39 %	±2	IHD-W431
IS	Impact sound reduction	18 dB	±2	EN 16354:2018
CS	Temporary loads resistance	298 kPa	±10	EN 16354:2018
CC	Static loads (furniture) resistance	>50* kPa		EN 16354:2018
DL	Dynamic loads (walking) resistance	>100 000* cycles		EN 16354:2018
PC	Local unevenness compensation	1,10 mm	±10%	EN 16354:2018
TR	Thermal insulation	0,008 m ² K/W	±0,003	EN 16354:2018
SD	Protection against moisture	>75* m		EN 16354:2018
RLB	Protection against falling objects	800 mm	±50	EN 16354:2018
RTF	Reaction to fire	E _{fl}		EN-ISO11925-2, PN-EN13501-1

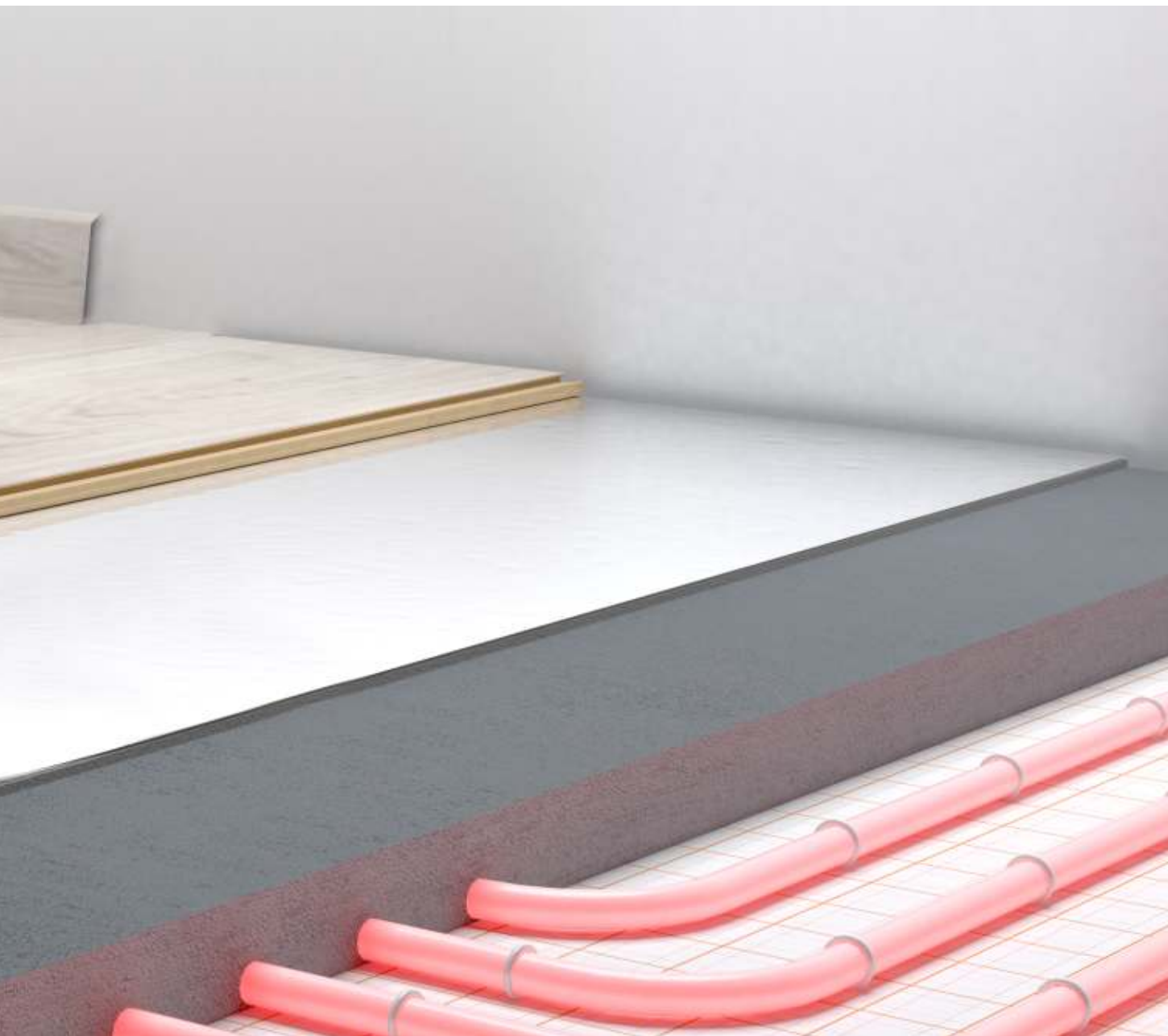
Logistic Parameter	Sales unit	Packaging	Palette
Form	Roll	---	Corrugated box
Quantity	1 Pc.	---	35 Rolls
Area	8m ²	---	280m ²
Weight	15kg ± 10%	---	526,4kg ± 10%



EXTREME *line*



Sometimes, there is no other important value for my client, than absolute silence. But, I am a professional and I know, that there is much more to take into consideration. In such cases I choose RWS Barrier underlays as they give no compromise.



EXTREME line represents best-in-class products. Underlays in this group offer outstanding parameters in all critical areas, from heavy loads resistance, through highest floor heating compatibility to unbeaten floor silencing. All of this comes in connection to more than 98% natural origin raw materials composition. One name defines it: RWS Barrier patented soundproofing technology.

ExtremeALU Heat

Permanently elastic, heavy underlay with patented RWS Barrier base material, specially developed for heated floors.



✓ Extremely effective footstep noise reduction

✓ Integrated vapor barrier

✓ Floor heating compatibility

RWS Barrier base material defines a new standard for the highest walking noise improvement value. All tests were conducted by the EPH GmbH.

In addition to laboratory tests, end-user experience was confirmed in real life conditions as RWS performance compared to other premium range underlays on the market.

Product compatibility

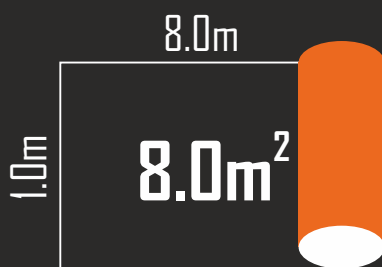
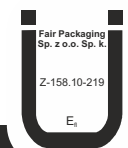
- ✓ Commercial laminate and engineered floors.

Product highlights

- ✓ Outstanding floor heating compatibility.
- ✓ Unrivalled walking sound improvement (RWS) thanks to RWS Barrier.
- ✓ Integrated vapor barrier.

Symbol	Category	Value/Unit		Test methods
T	Thickness	2,0 mm	±10%	EN823
L	Length	8 000 mm	±4%	EN822
W	Width	1 000 mm	±2%	EN822
AW	Area weight	1,70 kg/m ²	±10%	EN ISO 23997:2012
QW	Density	875 kg/m ³	±10%	EN ISO 23996:2012
RWS	Reflected walking sound improvement	39 %	±2	IHD-W431
IS	Impact sound reduction	18 dB	±2	EN 16354:2018
CS	Temporary loads resistance	298 kPa	±10	EN 16354:2018
CC	Static loads (furniture) resistance	>50* kPa		EN 16354:2018
DL	Dynamic loads (walking) resistance	>100 000* cycles		EN 16354:2018
PC	Local unevenness compensation	1,10 mm	±10%	EN 16354:2018
TR	Thermal insulation	0,008 m ² K/W	±0,003	EN 16354:2018
SD	Protection against moisture	>75* m		EN 16354:2018
RLB	Protection against falling objects	800 mm	±50	EN 16354:2018
RTF	Reaction to fire	E _{fl}		EN-ISO11925-2, PN-EN13501-1

Logistic Parameter	Sales unit	Packaging	Palette
Form	Roll	---	Corrugated box
Quantity	1 Pc.	---	35 Rolls
Area	8m ²	---	280m ²
Weight	13,6kg ± 10%	---	476kg ± 10%



ExtremeALU Silent

Permanently elastic, heavy underlay with patented RWS Barrier base material, for extreme walking noise improvement.



✓ Extremely effective footstep noise reduction

✓ Integrated vapor barrier

✓ Floor heating compatibility

RWS Barrier base material defines a new standard for the highest walking noise improvement value. All tests were conducted by the EPH GmbH.

In addition to laboratory tests, end-user experience was confirmed in real life conditions as RWS performance compared to other premium range underlays on the market.

Product compatibility

- ✓ Commercial laminate and engineered floors.

Product highlights

- ✓ Outstanding floor heating compatibility.
- ✓ Unrivalled walking sound improvement (RWS) thanks to RWS Barrier.
- ✓ Integrated vapor barrier.

Symbol	Category	Value/Unit		Test methods
T	Thickness	2,6 mm	±10%	EN823
L	Length	8 000 mm	±4%	EN822
W	Width	1 000 mm	±2%	EN822
AW	Area weight	2,2 kg/m ²	±10%	EN ISO 23997:2012
QW	Density	850 kg/m ³	±10%	EN ISO 23996:2012
RWS	Reflected walking sound improvement	40 %	±2	IHD-W431
IS	Impact sound reduction	18 dB	±2	EN 16354:2018
CS	Temporary loads resistance	200 kPa	±10	EN 16354:2018
CC	Static loads (furniture) resistance	>50* kPa		EN 16354:2018
DL	Dynamic loads (walking) resistance	>100 000* cycles		EN 16354:2018
PC	Local unevenness compensation	1,20 mm	±10%	EN 16354:2018
TR	Thermal insulation	0,010 m ² K/W	±0,003	EN 16354:2018
SD	Protection against moisture	>75 m		EN 16354:2018
RLB	Protection against falling objects	1 000 mm	±50	EN 16354:2018
RTF	Reaction to fire	E _{fl}		EN-ISO11925-2, PN-EN13501-1

Logistic Parameter	Sales unit	Packaging	Palette
Form	Roll	---	Cardboard
Quantity	1 Pc.	---	26 Rolls
Area	8m ²	---	208m ²
Weight	17,6 kg ± 10%	---	457,6 kg ± 10%





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