



**UTHERM**

# PIR INSULATION BOARDS












MULLIN

MULLIN



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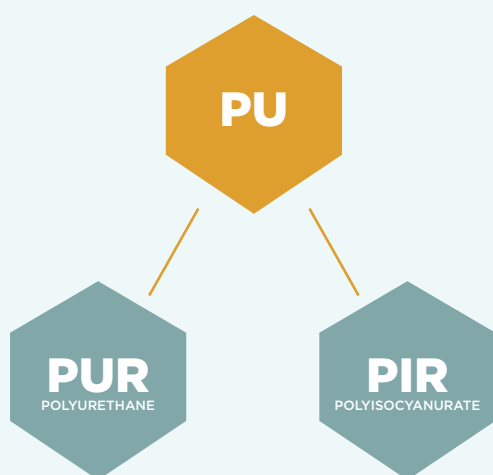
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# THE INSULATION BOARDS OF UNILIN INSULATION

Unilin Insulation has the most extensive range of insulation solutions for the optimal insulation of pitched and flat roofs, walls and floors. Unilin believes in smart insulation. Because smart insulation also means using space sparingly by applying a thin insulation layer, or by using the available space as efficiently as possible. That is why we opt for PIR, the most efficient insulation product.

## WHAT IS PIR?

Both PIR and PUR fall under the general heading of PU (polyurethane). It is a plastic that comes in many forms. Depending on the application, it can be made to be very flexible or, conversely, very rigid. Both PIR and PUR are manufactured using the same raw materials. The **difference is in the ratio of raw materials** and the manufacturing process, making the physicochemical bond of PIR slightly stronger. Because of their superior fire behaviour and insulation values, PIR insulation boards are regarded as an improved version of PUR. That is why our insulation boards are made of PIR.



## WHY IT'S SMART TO INSULATE WITH PIR



PIR is one of the **best-performing** insulating materials on the market



Simple and **optimal connection** to avoid air circulation



Excellent dimensional **stability** and **high compressive strength**



Insulate **thinner** to gain space



Perfectly **windproof** insulation shell



**Lightweight** and **easy** to install

**PIR is present in a large number of applications. Both flexible and hard. Just think of comfortable filling for cushions, sofas, armrests and mattresses.**

## **THREE REASONS WHY PIR IS SUSTAINABLE**

### **1. PIR LASTS A LIFETIME**

PIR maintains its shape and its insulating properties so with PIR you're set for life. Moreover, we aim to make PU recyclable by 2030, making it possible to manufacture new equivalent insulation boards from recycled raw materials.

### **2. PIR IS THIN INSULATION**

PIR insulates very effectively with just a thin insulation layer, saving space and resources. It is also a light insulation material, making it easy to process, and with low transport costs. Moreover, supporting the building doesn't require a weighty construction. In other words, less material means more sustainable construction!

### **3. PIR IS ROBUST**

PIR is very hard-wearing. It is robust thanks to the closed, high-density cell structure. This makes it impervious to moisture, walkable and always pressure-resistant. In other words, suitable for roofs, floors and walls.

# UNILIN INSULATION, YOUR INSULATION PARTNER

- ✓ The second largest player on the European PIR market
- ✓ The largest range of insulation solutions
- ✓ 8 production sites and 5 sales and support departments in Europe, headquartered in Belgium

## CUSTOM-TAILORED SOLUTIONS FOR ALL INSULATION APPLICATIONS

Unilin Insulation is part of the Unilin Group. The group consists of 3 divisions: Flooring (laminated, parquet and vinyl), Panels (MDF & chipboards, decorative panels) and Insulation (various insulation solutions). Unilin is part of the American listed company Mohawk Industries Inc., the global market leader in floor covering. Unilin Insulation has been a household name in the construction business for many years as the second largest European manufacturer of PIR insulation boards

and the undisputed market leader in Europe in terms of self-supporting roofing elements. Unilin Insulation offers custom-tailored solutions for all insulation applications, both for newbuild and renovation projects. In June 2021, Unilin Insulation took over Ballytherm: The takeover fits in with the company's strategic growth ambition, boosting its production capacity and bringing the UK's most recent PIR production facility into the fold.



- 
- Ballyconnell, Ireland
  - Navan, Ireland
  - Chesterfield, United Kingdom
  - Ross-on-Wye, United Kingdom
  - Oisterwijk, The Netherlands
  - **Desselgem, Belgium (HQ)**
  - Feluy, Belgium
  - Rosny-sous-Bois, France
  - Sury-le-Comtal, France

# PREMIUM QUALITY GUARANTEED



## CE MARKING

In the European Union CE marking for PIR insulation boards is mandatory. The standard Utherm PIR insulation boards with a gastight facer achieve a declared lambda value ( $\lambda_D$ ) of 0.022 W/m.K. This declared value is used to calculate energy performance and premiums. Utherm Premium and Usafe even boast 0.020 W/m.K.



## INDOOR EMISSIONS

This certificate proves that the insulation products marketed by Unilin Insulation meet the strictest quality standards applicable regarding the potential release of volatile substances into indoor environments.



## EPD

The independently verified environmental product declaration (EPD) contains full details on the impact of Utherm and Usafe products on the environment that third parties need in order to carry out a life cycle analysis (LCA) of the building.



## FM APPROVED

FM Approved is a quality label for risk management and damage prevention. This certificate proves that certain flat roof systems, including Utherm insulation, roof covering and substrate, meet the stringent quality demands of insurer FM Global. These quality requirements include fire safety, wind resistance, hail resistance and walkability of the roof system. The approved systems can be viewed on [www.roofnav.com](http://www.roofnav.com).



## ISO 14001

According to independent certification company SGS the production facilities of Unilin Insulation meet the requirements of ISO 14001 on environmental management systems.

**With Unilin Insulation  
premium results are  
guaranteed.**



**The insulation boards  
of Unilin Insulation  
meet the most stringent  
requirements and  
technical conditions for a  
wide variety of projects.**









# 100% AMBITION FOR 0% CO<sub>2</sub> EMISSIONS

Unilin Insulation manufactures first-rate products that allow everyone to live and work comfortably and in an energy-efficient manner. But we aim higher. How much higher is described in our sustainability programme, One Home. With this programme we resolutely opt for a climate-neutral approach, from raw materials selection to product recycling. In addition, we keep innovating so that our customers can make even more energy and comfort gains. We also create a sustainable workplace for our employees so they can work in a safe, stimulating and positive environment. This contributes to the well-being of our planet, our customers and our employees. And last but not least, it makes us future-proof.

## **Our One Home programme results in:**

- **Climate-neutral products**
- **Energy and comfort gains for our customers**
- **Happy and healthy employees**



## ACTIONS SPEAK LOUDER THAN WORDS

Despite our best efforts, we are currently still partially dependent on fossil fuels for the production of our insulation boards and roofing elements. We want to change this. That's why we will be making the energy transition from fossil (gas, grey power) to renewables (wind and green power). More than 14,500 solar panels and several wind turbines help us generate our own renewable energy. Moreover, we have plans to significantly boost this capacity in the coming years. What we still lack in

capacity afterwards will be supplemented with certified green energy. This approach is designed to make all our production facilities CO<sub>2</sub> neutral by 2030.

**Renewable energy will replace fossil fuels to make our production activities CO<sub>2</sub> neutral by 2030.**



## 1,000 TONS LESS CO2 PER YEAR THANKS TO RECYCLED PACKAGING FILM

In order to become climate-neutral it is necessary to tackle the entire production chain. And we do this. The shrink-wrap we use to package our Utherm insulation boards consists of at least 50% recycled material.

And by making this packaging film transparent it can be recycled with great efficiency, guaranteeing permanent recycling without compromising on quality. This way we reduce our CO<sub>2</sub> emissions by more than 1,000 tons per year.



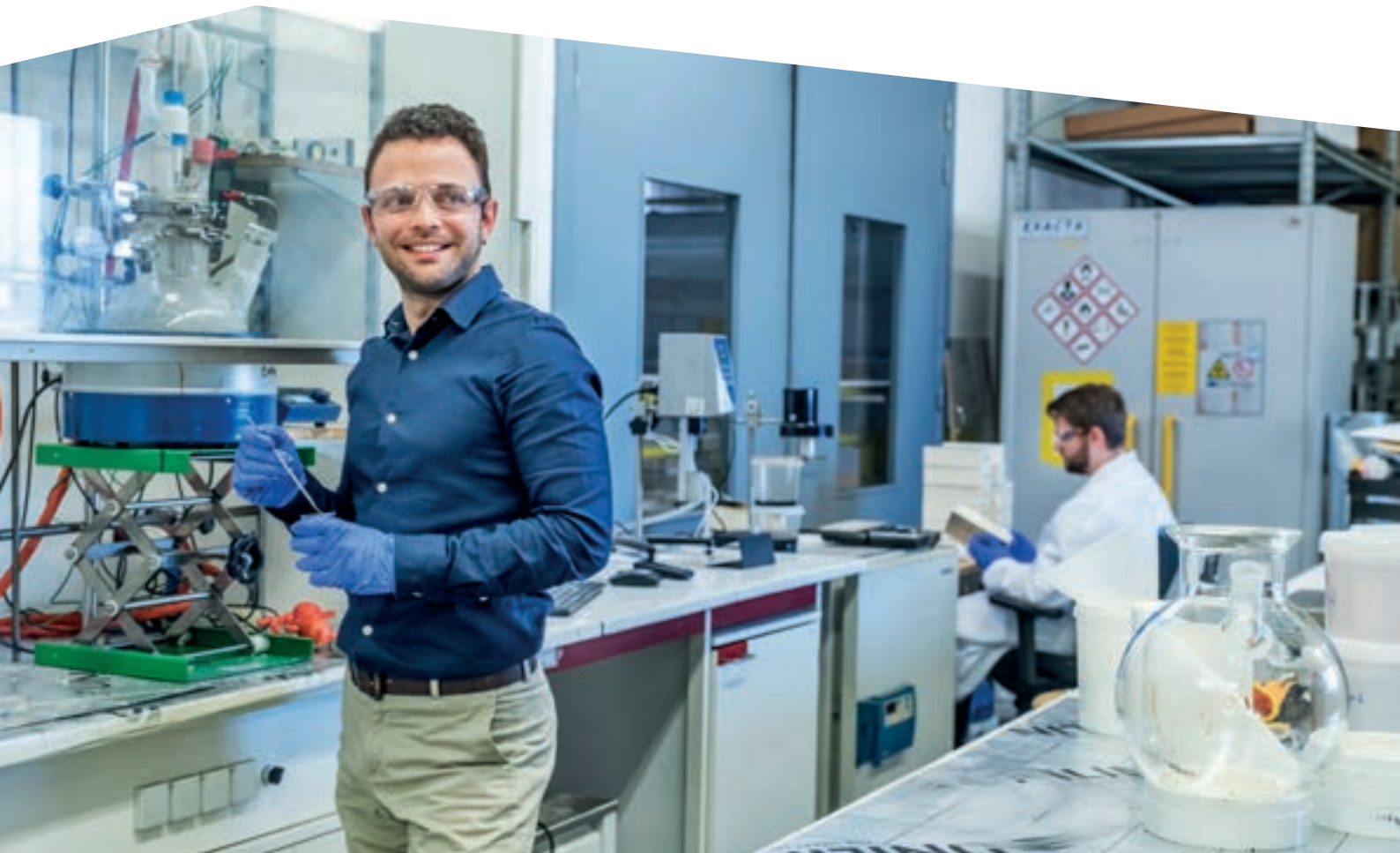
**Recycling insulation boards prevents dumping or incineration and saves on new raw materials.**

## **THE NEXT STEP: RECYCLING PU**

Nothing goes to waste in a circular economy. Therefore, making PU recyclable is one of our biggest challenges. From a technical point of view, however, it's also one of the toughest. Our participation in the ambitious European CIRCULAR FOAM project will change all that. The goal is to convert PU back into the original raw materials through chemical upcycling. Through this and other techniques we aim to recycle up to 70% of our insulation boards by 2030, enabling us to manufacture new, high-performance insulation boards using 'old, recycled' raw materials. Circularity at its finest!



# CIRCULAR FOAM







## SAFETY COMES FIRST

More than 1,000 employees put their best foot forward every single day. For them we want to act as a second home. Together we form a team of entrepreneurs with a focus on lifelong learning, good health and, of course, safe working methods. That is why we strive for zero harm (= zero industrial accidents). Making this a reality

requires a permanent change in culture and a continuous effort. In all our activities, on every level, from the work floor to management... That is how we create an environment where everyone feels safe and comfortable.

**The safety and health of our employees is our number one priority in everything we do.**





**UTHERM**  
Premium



# SLIMMER INSULATION AND OPTIMUM ENERGY PERFORMANCE WITH UTHERM PREMIUM

## REDUCED THICKNESS

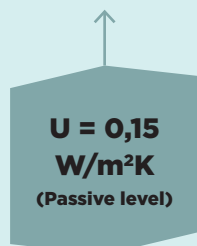
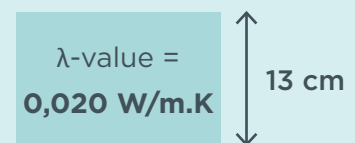
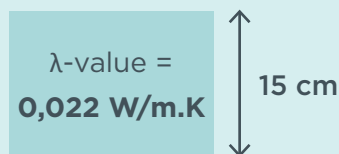
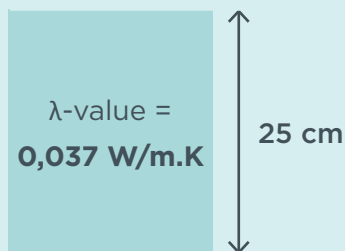
Alternative  
insulation material



**UTHERM**



**UTHERM  
PREMIUM**

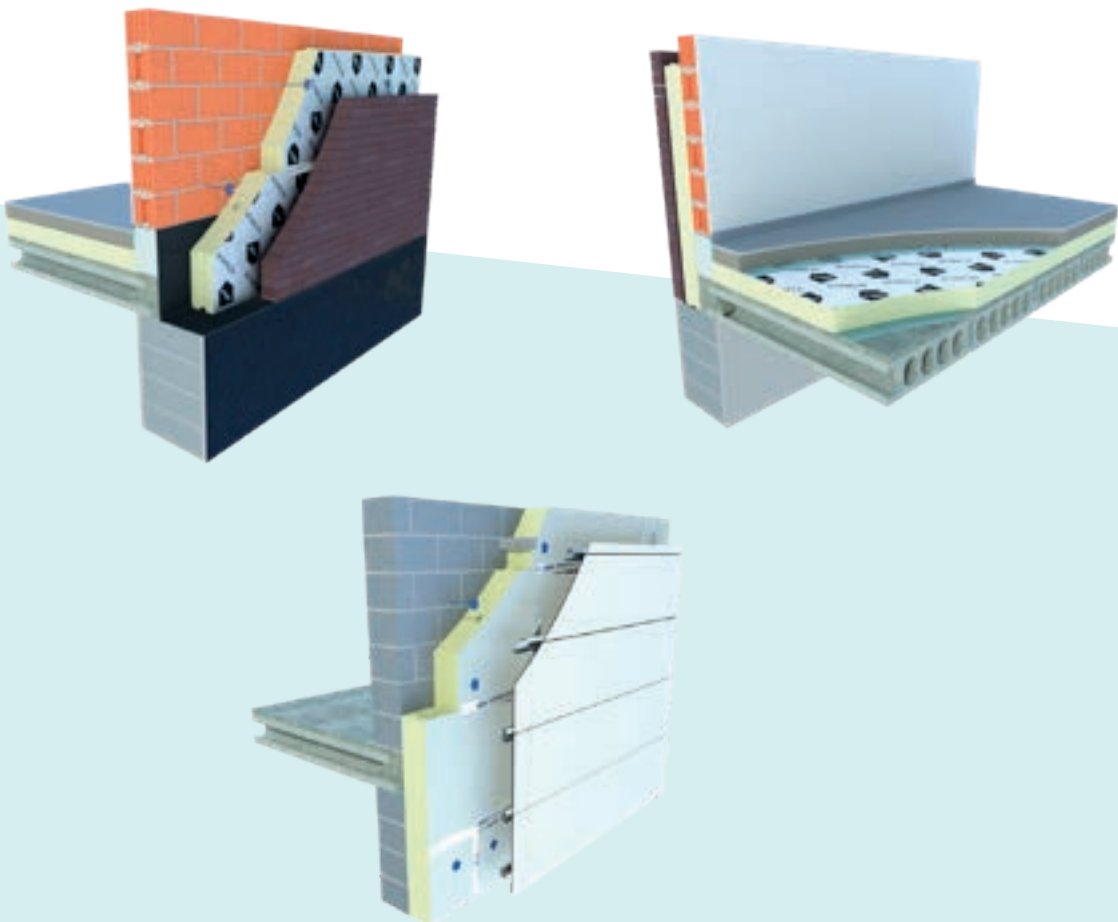




# Utherm Premium is available for multiple solutions

- ✓ Slim insulation = more room for your project
- ✓ Excellent energy performance with a low lambda value of 0,020 W/m.K
- ✓ Using less insulation = respecting the environment
- ✓ Reaction to fire class E

For the technical data sheet go to page 18.



# UTHERM Premium LE

Insulation board  
for floor, roof,  
concrete and wall  
applications

Premium LE is a Premium PIR insulation board Euroclass E finished on both sides with a multilayer gastight laminate facer, finished with a preprinted grid.

**Application** Insulation board for floors, roofs, cavity walls/ventilated facades and prefabricated concrete wall panels

**Insulation** Polyisocyanurate (PIR)  
**Declared lambda-value ( $\lambda_p$ ):**  
**0,020 W/m.K**

**Facing** LE: multilayer gastight laminate with preprinted grid

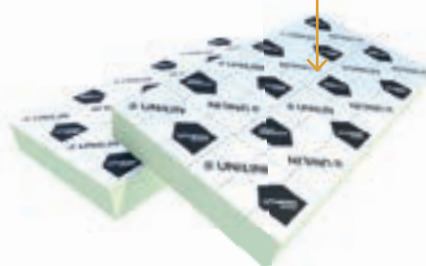
**Dimensions** Standard: 1200 x 600 mm

**Edge finish** Straight on the 4 sides



lambda-value:

**0,020**  
W/m.K

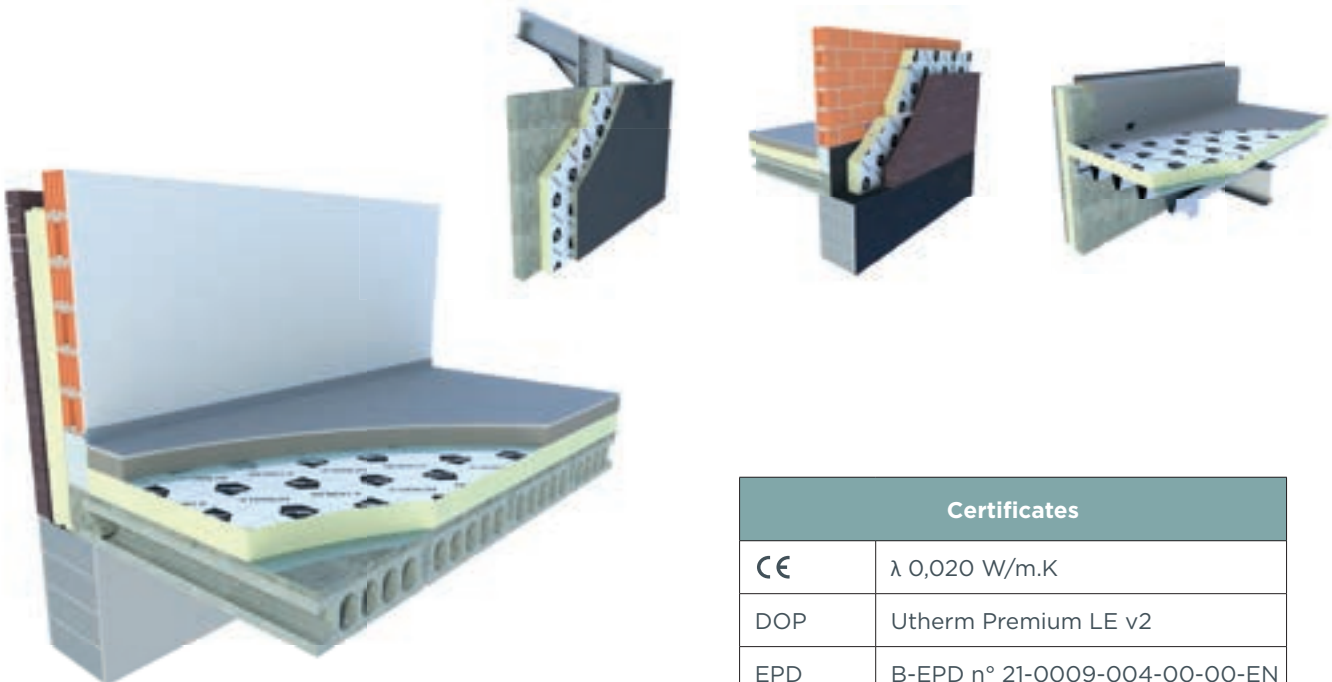


Insulation-thickness [mm]	R <sub>D INSUL</sub> value [m <sup>2</sup> K/W] CE	Boards per pack	m <sup>2</sup> per pack	Boards per pallet	m <sup>2</sup> per pallet	m <sup>2</sup> full load [= 22 pal.]	In stock	On demand*
<b>Premium LE: 1200 x 600 mm</b>								
20	1,00	24	17,28	240	172,80	3.801,60	✓	
30	1,50	16	11,52	160	115,20	2.534,40	✓	
40	2,00	12	8,64	120	86,40	1.900,80	✓	
50	2,50	10	7,20	100	72,00	1.584,00	✓	
60	3,00	8	5,76	80	57,60	1.267,20	✓	
70	3,50	7	5,04	70	50,40	1.108,80	✓	
80	4,00	6	4,32	60	43,20	950,40	✓	
90	4,50	5	3,60	50	36,00	792,00		✓
100	5,00	5	3,60	50	36,00	792,00	✓	
120	6,00	4	2,88	40	28,80	633,60	✓	
140	7,00	3	2,16	36	25,92	570,00		✓

\* Minimum order quantities and special conditions upon consultation

## TECHNICAL PROPERTIES

<b>Declared thermal conductivity :</b> $\lambda_D$ according to EN 13165:2012+A2:2016	0,020 W/m.K
<b>Compressive strength at 10% deformation :</b> CS(10/Y)150 according to EN 826	$\geq 150$ kPa (1,5 kg/cm <sup>2</sup> )
<b>Tensile strength perpendicular to the faces</b>	TR80 $\geq 80$ kPa
<b>Dimensional stability</b> 48h, 70°C, 90%RH 48h, -20°C	DS(70,90)3: $\Delta\epsilon_{l,b} \leq 2$ / $\Delta\epsilon_d \leq 6$ DS(-20,-)1: $\Delta\epsilon_{l,b} \leq 1$ / $\Delta\epsilon_d \leq 2$
<b>Deformation under compressive load and temperature conditions</b>	DLT(2) $\leq 5\%$
<b>Density of the PIR foam</b>	32 kg/m <sup>3</sup> $\pm$ 3 kg/m <sup>3</sup>
<b>Water vapour transmission resistance of the PIR foam : <math>\mu</math></b>	50-100
<b>Reaction to fire class</b>	E according to EN 13501-1 B-s1, d0 (End-Use Eternit cladding, contact Unilin for the conditions of application)
<b>Long term water absorption</b>	WL(T)2 according to EN 13165 < 2%



Certificates	
CE	$\lambda$ 0,020 W/m.K
DOP	Utherm Premium LE v2
EPD	B-EPD n° 21-0009-004-00-00-EN



**Offering insulation solutions that make a genuine difference, that is what we strive for.**



# AN INSULATION SOLUTION FOR ANY NEED

- ✓ The largest range of insulation solutions for roofs, walls, floors and industrial applications
- ✓ PIR is not just more energy-efficient but also a slimmer insulation method (space gains)
- ✓ Perfectly windproof with a tongue and groove system for optimal connection or straight edges, preventing air circulation (especially with a Unitape finish)
- ✓ Excellent dimensional stability, high compressive strength and good fire resistance
- ✓ Lightweight so less labour intensive and less stress on the structure
- ✓ Easy to process (from sawing to assembly)



FLOOR



ROOF



SARKING



WALL



ATTIC



## Floor

**Thanks to their high compressive strength, our PIR insulation boards are the most suitable solution to insulate your floors.**

# INSULATION FOR YOUR FLOOR



**Floor  
insulation**

→ **Utherm Floor LE**

24

**Attic  
insulation**


→ **Utherm Attic L OSB**

60

# UTHERM Floor LE

Insulation board  
for floors

Floor LE is a PIR insulation board Euroclass E finished on both sides with a multilayer gastight laminate facer, finished with a preprinted grid.

<b>Application</b>	Insulation boards for floors
<b>Insulation</b>	Polyisocyanurate (PIR) <b>Declared lambda-value (<math>\lambda_D</math>):</b> <b>0,022 W/m.K</b>
<b>Facing</b>	LE : multilayer gastight laminate with preprinted grid
<b>Dimensions</b>	Standard : 1200 x 600 mm or 2400 x 1200 mm
<b>Edge finish</b>	Straight on the 4 sides 

lambda-value:  
**0,022**  
W/m.K



Insulation-thickness [mm]	$R_{D,INSUL}$ value [m <sup>2</sup> K/W] CE	Boards per pack	m <sup>2</sup> per pack	Boards per pallet	m <sup>2</sup> per pallet	m <sup>2</sup> full load [= 22 pal.]	In stock	On demand*
<b>Floor LE: 1200 x 600 mm</b>								
20	0,90	24	17,28	240	172,80	3.801,60	✓	
30	1,35	16	11,52	160	115,20	2.534,40	✓	
40	1,80	12	8,64	120	86,40	1.900,80	✓	
50	2,25	10	7,20	100	72,00	1.584,00	✓	
60	2,70	8	5,76	80	57,60	1.267,20	✓	
70	3,15	7	5,04	70	50,40	1.108,80	✓	
80	3,60	6	4,32	60	43,20	950,40	✓	
90	4,05	5	3,60	50	36,00	792,00		✓
100	4,50	5	3,60	50	36,00	792,00	✓	
120	5,45	4	2,88	40	28,80	633,60	✓	
140	6,35	3	2,16	36	25,92	570,24		✓
160	7,25	3	2,16	30	21,60	475,20		✓
180	8,15	2	1,44	24	17,28	380,16		✓
200	9,05	2	1,44	24	17,28	380,16		✓

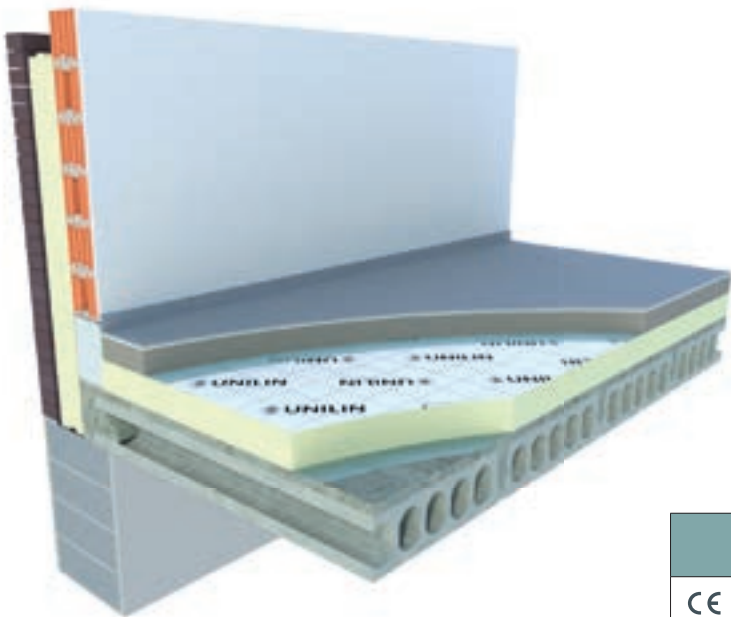
Insulation-thickness [mm]	$R_{D,INSUL}$ value [m <sup>2</sup> K/W] CE	Boards per pack	m <sup>2</sup> per pack	Boards per pallet	m <sup>2</sup> per pallet	m <sup>2</sup> full load [= 11 pal.]	In stock	On demand*
<b>Floor LE: 2400 x 1200 mm</b>								
30	1,35	16	46,08	80	230,40	2.534,40		✓
40	1,80	12	34,56	60	172,80	1.900,80		✓
50	2,25	10	28,80	50	144,00	1.584,00		✓
60	2,70	8	23,04	40	115,20	1.267,20		✓
70	3,15	7	20,16	35	100,80	1.108,80		✓
80	3,60	6	17,28	30	86,40	950,40		✓
90	4,05	5	14,40	25	72,00	792,00		✓
100	4,50	5	14,40	25	72,00	792,00		✓
120	5,45	4	11,52	20	57,60	633,60		✓
140	6,35	3	8,64	18	51,84	570,24		✓
160	7,25	3	8,64	15	43,20	475,20		✓

\* Minimum order quantities and special conditions upon consultation



## TECHNICAL PROPERTIES

<b>Declared thermal conductivity :</b> $\lambda_D$ according to EN 13165:2012+A2:2016	0,022 W/m.K
<b>Compressive strength at 10% deformation :</b> CS(10/Y)150 according to EN 826	$\geq 150$ kPa (1,5 kg/cm <sup>2</sup> )
<b>Tensile strength perpendicular to the faces</b>	TR80 $\geq 80$ kPa
<b>Dimensional stability</b> 48h, 70°C, 90%RH 48h, -20°C	DS(70,90)3: $\Delta\epsilon_{l,b} \leq 2$ / $\Delta\epsilon_d \leq 6$ DS(-20,-)1: $\Delta\epsilon_{l,b} \leq 1$ / $\Delta\epsilon_d \leq 2$
<b>Deformation under compressive load and temperature conditions</b>	DLT(2) $\leq 5\%$
<b>Density of the PIR foam</b>	32 kg/m <sup>3</sup> $\pm$ 3 kg/m <sup>3</sup>
<b>Water vapour transmission resistance of the PIR foam : <math>\mu</math></b>	50-100
<b>Reaction to fire class</b>	E according to EN 13501-1
<b>Long term water absorption</b>	WL(T)2 according to EN 13165 < 2%



Certificates	
CE	$\lambda$ 0,022 W/m.K
DOP	Utherm Floor LE v3
EPD	B-EPD n° 21-0009-004-00-00-EN



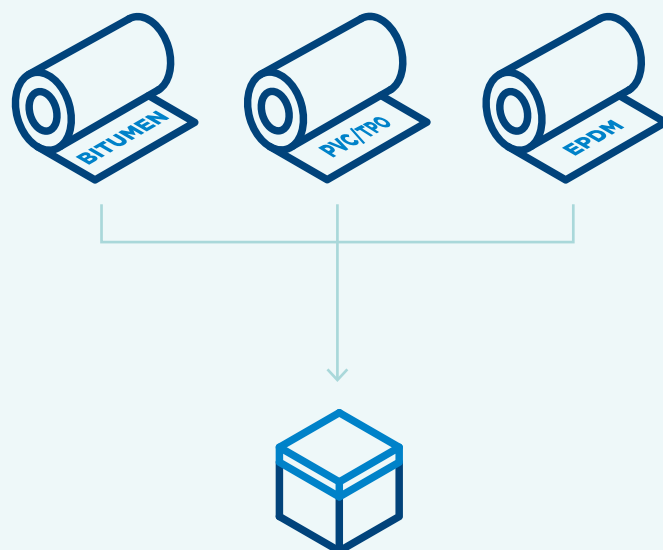
# Roof



**Our range offers a solution with a suitable protective coating for every flat roof and every roof covering.**



# INSULATION FOR YOUR FLAT ROOF



<b>Utherm Roof LE</b>	28
<b>Utherm Roof LE LS</b>	30
<b>Utherm Roof LE Pro</b>	32
<b>Utherm Roof LE Tapered</b>	34
<b>Utherm Roof K</b>	36
<b>Utherm Roof BM</b>	38

# UTHERM Roof LE

Insulation board  
for roofs

Roof LE is a PIR insulation board Euroclass E finished on both sides with a multilayer gastight laminate facer.

<b>Application</b>	Insulation boards for flat and low sloped roofs
<b>Insulation</b>	Polyisocyanurate (PIR) <b>Declared lambda-value (<math>\lambda_D</math>):</b> <b>0,022 W/m.K</b>
<b>Facing</b>	LE: multilayer gastight laminate
<b>Dimensions</b>	Standard: 1200 x 600 mm or 2400 x 1200 mm
<b>Edge finish</b>	Straight on the 4 sides



lambda-value:  
**0,022**  
W/m.K



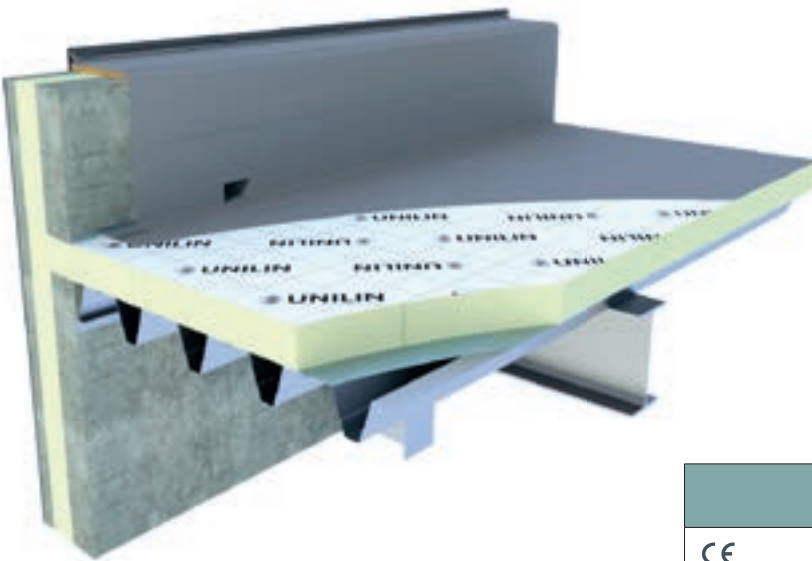
Insulation-thickness [mm]	$R_{D,INSUL}$ value [m <sup>2</sup> K/W] CE	Boards per pack	m <sup>2</sup> per pack	Boards per pallet	m <sup>2</sup> per pallet	m <sup>2</sup> full load [= 22 pal.]	In stock	On demand*
<b>Roof LE: 1200 x 600 mm</b>								
20	0,90	24	17,28	240	172,80	3.801,60	✓	
30	1,35	16	11,52	160	115,20	2.534,40	✓	
40	1,80	12	8,64	120	86,40	1.900,80	✓	
50	2,25	10	7,20	100	72,00	1.584,00	✓	
60	2,70	8	5,76	80	57,60	1.267,20	✓	
70	3,15	7	5,04	70	50,40	1.108,80	✓	
80	3,60	6	4,32	60	43,20	950,40	✓	
90	4,05	5	3,60	50	36,00	792,00	✓	
100	4,50	5	3,60	50	36,00	792,00	✓	
110	5,00	4	2,88	40	28,80	633,60	✓	
120	5,45	4	2,88	40	28,80	633,60	✓	
140	6,35	3	2,16	36	25,92	570,24	✓	
142	6,45	3	2,16	30	21,60	475,20	✓	
160	7,25	3	2,16	30	21,60	475,20	✓	
180	8,15	2	1,44	24	17,28	380,16	✓	
200	9,05	2	1,44	24	17,28	380,16	✓	

Insulation-thickness [mm]	$R_{D,INSUL}$ value [m <sup>2</sup> K/W] CE	Boards per pack	m <sup>2</sup> per pack	Boards per pallet	m <sup>2</sup> per pallet	m <sup>2</sup> full load [= 11 pal.]	In stock	On demand*
<b>Roof LE: 2400 x 1200 mm</b>								
20	0,90	24	69,12	120	345,60	3.801,60	✓	
30	1,35	16	46,08	80	230,40	2.534,40	✓	
40	1,80	12	34,56	60	172,80	1.900,80	✓	
50	2,25	10	28,80	50	144,00	1.584,00	✓	
60	2,70	8	23,04	40	115,20	1.267,20	✓	
70	3,15	7	20,16	35	100,80	1.108,80	✓	
80	3,60	6	17,28	30	86,40	950,40	✓	
90	4,05	5	14,40	25	72,00	792,00	✓	
100	4,50	5	14,40	25	72,00	792,00	✓	
110	5,00	4	11,52	20	57,60	633,60	✓	
120	5,45	4	11,52	20	57,60	633,60	✓	
140	6,35	3	8,64	18	51,84	570,24	✓	
142	6,45	3	8,64	15	43,20	475,20	✓	
160	7,25	3	8,64	15	43,20	475,20	✓	✓

\* Minimum order quantities and special conditions upon consultation

## TECHNICAL PROPERTIES

<b>Declared thermal conductivity :</b> $\lambda_D$ according to EN 13165:2012+A2:2016	0,022 W/m.K
<b>Compressive strength at 10% deformation :</b> CS(10/Y)150 according to EN 826	$\geq 150$ kPa (1,5 kg/cm <sup>2</sup> )
<b>Tensile strength perpendicular to the faces</b>	TR80 $\geq 80$ kPa
<b>Dimensional stability</b> 48h, 70°C, 90%RH 48h, -20°C	DS(70,90)3: $\Delta\epsilon_{l,b} \leq 2$ / $\Delta\epsilon_d \leq 6$ DS(-20,-)1: $\Delta\epsilon_{l,b} \leq 1$ / $\Delta\epsilon_d \leq 2$
<b>Deformation under compressive load and temperature conditions</b>	DLT(2) $\leq 5\%$
<b>Density of the PIR foam</b>	32 kg/m <sup>3</sup> $\pm$ 3 kg/m <sup>3</sup>
<b>Water vapour transmission resistance of the PIR foam : <math>\mu</math></b>	50-100
<b>Reaction to fire class</b>	E according to EN 13501-1 B-s1, d0 (End-use steel deck)
<b>Long term water absorption</b>	WL(T)2 according to EN 13165 < 2%




Certificates	
CE	$\lambda$ 0,022 W/m.K
DOP	Utherm Roof LE v3
EPD	B-EPD n° 21-0009-004-00-00-EN



# UTHERM Roof LE LS

Insulation board  
for roofs

Utherm Roof LE LS is a PIR insulation board Euroclass E finished on both sides with a multilayer gastight laminate facer, with rebated (shiplap) edge finish on the 4 sides.

<b>Application</b>	Insulation boards for flat and low sloped roofs
<b>Insulation</b>	Polyisocyanurate (PIR) <b>Declared lambda-value (<math>\lambda_D</math>):</b> <b>0,022 W/m.K</b>
<b>Facing</b>	LE : multilayer gastight laminate
<b>Dimensions</b>	Standard : 1.200 x 600 mm or 2.400 x 1.200 mm
<b>Edge finish</b>	Shiplap (rebated) on the 4 sides 

lambda-value:  
**0,022**  
W/m.K



Insulation-thickness [mm]	R <sub>D</sub> INSUL value [m <sup>2</sup> K/W] CE	Boards per pack	m <sup>2</sup> per pack	Boards per pallet	m <sup>2</sup> per pallet	m <sup>2</sup> full load [= 22 pal.]	In stock	On demand*
<b>Roof LE LS: 1.200 x 600 mm</b>								
60	2,70	8	5,76	80	57,60	1.267,20	✓	
80	3,60	6	4,32	60	43,20	950,40	✓	
100	4,50	5	3,60	50	36,00	792,00	✓	
120	5,45	4	2,88	40	28,80	633,60	✓	
140	6,35	3	2,16	36	25,92	570,24	✓	
160	7,25	3	2,16	30	21,60	475,20	✓	
180	8,15	2	1,44	24	17,28	380,16		✓
200	9,05	2	1,44	24	17,28	380,16		✓

\* Minimum order quantities and special conditions upon consultation

## TECHNICAL PROPERTIES

<b>Declared thermal conductivity :</b> $\lambda_D$ according to EN 13165:2012+A2:2016	0,022 W/m.K
<b>Compressive strength at 10% deformation :</b> CS(10/Y)150 according to EN 826	$\geq 150$ kPa (1,5 kg/cm <sup>2</sup> )
<b>Tensile strength perpendicular to the faces</b>	TR100 $\geq 100$ kPa
<b>Dimensional stability</b> 48h, 70°C, 90%RH 48h, -20°C	DS(70,90)3: $\Delta\epsilon_{l,b} \leq 2$ / $\Delta\epsilon_d \leq 6$ DS(-20,-)1: $\Delta\epsilon_{l,b} \leq 1$ / $\Delta\epsilon_d \leq 2$
<b>Deformation under compressive load and temperature conditions</b>	DLT(2) $\leq 5\%$
<b>Density of the PIR foam</b>	32 kg/m <sup>3</sup> $\pm$ 3 kg/m <sup>3</sup>
<b>Water vapour transmission resistance of the PIR foam : <math>\mu</math></b>	50-100
<b>Reaction to fire class</b>	E according to EN 13501-1 B-s1, d0 (End-use steel deck)
<b>Long term water absorption</b>	WL(T)2 according to EN 13165 < 2%




Certificates	
CE	$\lambda$ 0,022 W/m.K
DOP	Utherm Roof LE v3
EPD	B-EPD n° 21-0009-004-00-00-EN

# UTHERM Roof LE Pro

Insulation board  
for roofs

Roof LE Pro is a PIR insulation board Euroclass E finished on both sides with a multilayer gastight laminate facer and FM Approved.

<b>Application</b>	Insulation boards for flat and low sloped roofs
<b>Insulation</b>	Polyisocyanurate (PIR) <b>Declared lambda-value (<math>\lambda_D</math>):</b> <b>0,022 W/m.K</b>
<b>Facing</b>	LE Pro: multilayer gastight laminate
<b>Dimensions</b>	Standard: 1200 x 600 mm or 2400 x 1200 mm
<b>Edge finish</b>	Straight on the 4 sides 

lambda-value:  
**0,022**  
W/m.K



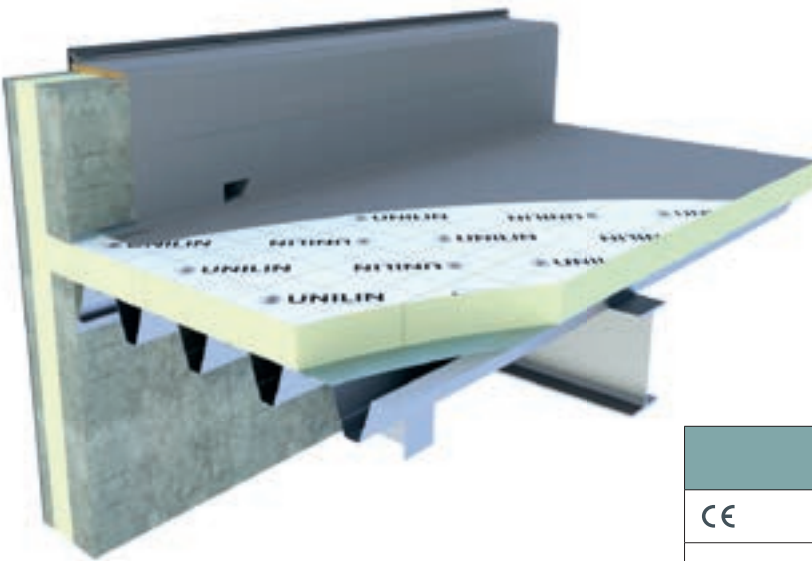
Insulation-thickness [mm]	$R_D^{INSUL}$ value [m <sup>2</sup> K/W] CE	Boards per pack	m <sup>2</sup> per pack	Boards per pallet	m <sup>2</sup> per pallet	m <sup>2</sup> full load [= 22 pal.]	In stock	On demand*
Roof LE Pro: 1200 x 600 mm								
50	2,25	10	7,20	100	72,00	1.584,00	✓	
60	2,70	8	5,76	80	57,60	1.267,20	✓	
70	3,15	7	5,04	70	50,40	1.108,80	✓	
80	3,60	6	4,32	60	43,20	950,40	✓	
90	4,05	5	3,60	50	36,00	792,00	✓	
100	4,50	5	3,60	50	36,00	792,00	✓	
110	5,00	4	2,88	40	28,80	633,60	✓	
120	5,45	4	2,88	40	28,80	633,60	✓	
140	6,35	3	2,16	36	25,92	570,24	✓	
142	6,45	3	2,16	30	21,60	475,20	✓	
160	7,25	3	2,16	30	21,60	475,20	✓	
180	8,15	2	1,44	24	17,28	380,16	✓	
200	9,05	2	1,44	24	17,28	380,16	✓	

Insulation-thickness [mm]	$R_D^{INSUL}$ value [m <sup>2</sup> K/W] CE	Boards per pack	m <sup>2</sup> per pack	Boards per pallet	m <sup>2</sup> per pallet	m <sup>2</sup> full load [= 11 pal.]	In stock	On demand*
Roof LE Pro: 2400 x 1200 mm								
50	2,25	10	28,80	50	144,00	1.584,00	✓	
60	2,70	8	23,04	40	115,20	1.267,20	✓	
70	3,15	7	20,16	35	100,80	1.108,80	✓	
80	3,60	6	17,28	30	86,40	950,40	✓	
90	4,05	5	14,40	25	72,00	792,00	✓	
100	4,50	5	14,40	25	72,00	792,00	✓	
110	5,00	4	11,52	20	57,60	633,60	✓	
120	5,45	4	11,52	20	57,60	633,60	✓	
140	6,35	3	8,64	18	51,84	570,24	✓	
142	6,45	3	8,64	15	43,20	475,20	✓	
160	7,25	3	8,64	15	43,20	475,20	✓	
180	8,15	2	5,76	12	34,56	380,16	✓	
200	9,05	2	5,76	12	34,56	380,16	✓	

\* Minimum order quantities and special conditions upon consultation

## TECHNICAL PROPERTIES

<b>Declared thermal conductivity :</b> $\lambda_D$ according to EN 13165:2012+A2:2016	0,022 W/m.K
<b>Compressive strength at 10% deformation :</b> CS(10/Y)150 according to EN 826	$\geq 150$ kPa (1,5 kg/cm <sup>2</sup> )
<b>Tensile strength perpendicular to the faces</b>	TR80 $\geq 80$ kPa
<b>Dimensional stability</b> 48h, 70°C, 90%RH 48h, -20°C	DS(70,90)3: $\Delta\epsilon_{l,b} \leq 2$ / $\Delta\epsilon_d \leq 6$ DS(-20,-)1: $\Delta\epsilon_{l,b} \leq 1$ / $\Delta\epsilon_d \leq 2$
<b>Deformation under compressive load and temperature conditions</b>	DLT(2) $\leq 5\%$
<b>Density of the PIR foam</b>	32 kg/m <sup>3</sup> $\pm$ 3 kg/m <sup>3</sup>
<b>Water vapour transmission resistance of the PIR foam : <math>\mu</math></b>	50-100
<b>Reaction to fire class</b>	E according to EN 13501-1 B-s1, d0 (End-use steel deck)
<b>Long term water absorption</b>	WL(T)2 according to EN 13165 $< 2\%$



Certificates	
CE	$\lambda$ 0,022 W/m.K
DOP	Utherm Roof LE Pro v1
EPD	B-EPD n° 21-0009-004-00-00-EN
FM	FM approved per Approval Standard 4470



# UTHERM

## Roof LE Tapered

Insulation board  
for roofs

Roof LE Tapered is a tapered PIR insulation board Euroclass E finished on both sides beide sides with a multilayer gastight laminate facer.

**Application** Insulation boards with one-sided taper for flat roofs

**Insulation** Polyisocyanurate (PIR)  
**Declared lambda-value ( $\lambda_D$ ): 0,022 W/m.K**

**Facing** LE : multilayer gastight laminate

**Dimensions** Standard: 1200 x 1200 mm

**Edge finish** Straight on the 4 sides



lambda-value:  
**0,022**  
W/m.K

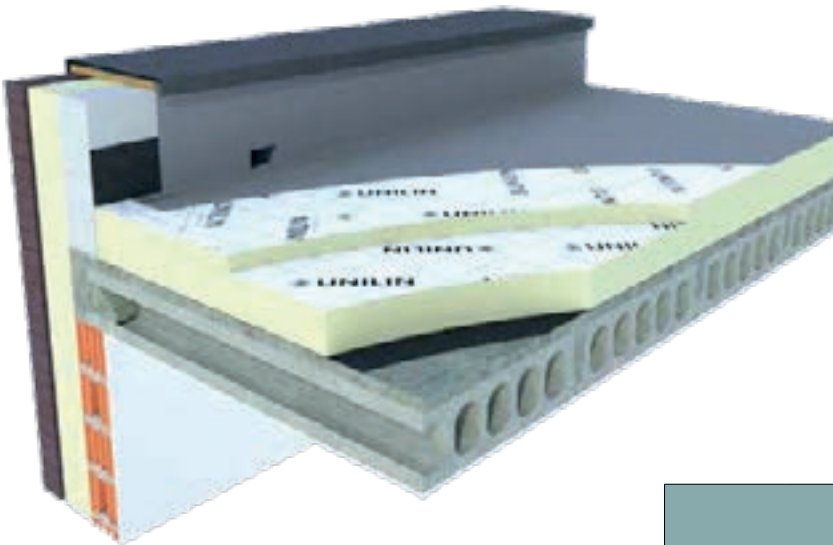


Insulation-thickness [mm]	$R_{D\text{ INSUL}}$ average value [m <sup>2</sup> K/W] CE	Boards per pack	m <sup>2</sup> per pack	Boards per pallet	m <sup>2</sup> per pallet	m <sup>2</sup> full load [= 22 pal.]	In stock	On demand*
<b>Roof LE Tapered 15 mm : 1200 x 1200 mm</b>								
30/45	1,70	8	11,52	64	92,16	2.027,52	✓	
45/60	2,35	6	8,64	48	69,12	1.520,60	✓	
60/75	3,05	4	5,76	36	51,84	1.140,48	✓	
75/90	3,75	6	8,64	30	43,30	950,40	✓	
90/105	4,40	4	5,76	24	34,56	760,32	✓	
105/120	5,10	4	5,76	20	28,80	633,60	✓	
<b>Roof LE Tapered 25 mm : 1200 x 1200 mm</b>								
30/55	1,90	10	14,40	50	72,00	1.584,00	✓	
55/80	3,05	6	8,64	36	51,84	1.140,48	✓	
80/105	4,20	4	5,76	24	34,56	760,32	✓	
105/130	5,30	4	5,76	20	28,80	633,60	✓	
<b>Roof LE Tapered 30 mm : 1200 x 1200 mm</b>								
30/60	2,00	10	14,40	50	72,00	1.584,00	✓	
60/90	3,40	6	8,64	30	43,20	950,40	✓	
90/120	4,75	4	5,76	24	34,56	760,32	✓	

\* Minimum order quantities and special conditions upon consultation

## TECHNICAL PROPERTIES

<b>Declared thermal conductivity :</b> $\lambda_D$ according to EN 13165:2012+A2:2016	0,022 W/m.K
<b>Compressive strength at 10% deformation :</b> CS(10/Y)150 according to EN 826	$\geq 150$ kPa (1,5 kg/cm <sup>2</sup> )
<b>Tensile strength perpendicular to the faces</b>	TR80 $\geq 80$ kPa
<b>Dimensional stability</b> 48h, 70°C, 90%RH 48h, -20°C	DS(70,90)3: $\Delta\epsilon_{l,b} \leq 2$ / $\Delta\epsilon_d \leq 6$ DS(-20,-)1: $\Delta\epsilon_{l,b} \leq 1$ / $\Delta\epsilon_d \leq 2$
<b>Deformation under compressive load and temperature conditions</b>	DLT(2) $\leq 5\%$
<b>Density of the PIR foam</b>	32 kg/m <sup>3</sup> $\pm$ 3 kg/m <sup>3</sup>
<b>Water vapour transmission resistance of the PIR foam : <math>\mu</math></b>	50-100
<b>Reaction to fire class</b>	E according to EN 13501-1 B-s1, d0 (End-use steel deck)
<b>Long term water absorption</b>	WL(T)2 according to EN 13165 < 2%



Certificates	
CE	$\lambda$ 0,022 W/m.K
DOP	Utherm Roof LE Tapered v3
EPD	B-EPD n° 21-0009-004-00-00-EN

# UTHERM Roof K

Insulation board  
for roofs

Roof K is a PIR insulation board finished on both sides with a multilayer gastight laminate facer.

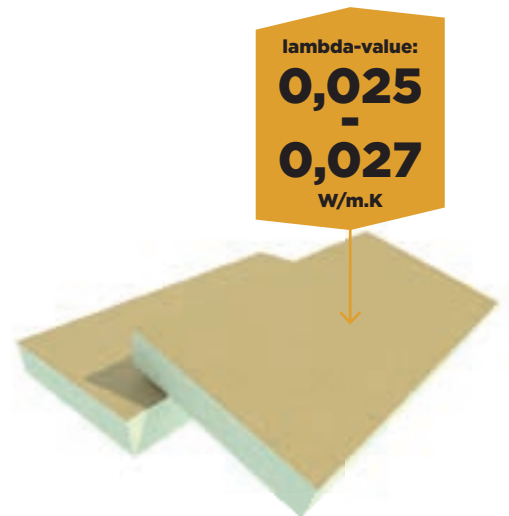
**Application** Insulation boards for flat roofs

**Insulation** Polyisocyanurate (PIR)  
**Declared lambda-value ( $\lambda_D$ ):**  
**0,022 W/m.K**

**Facing** K : multilayer gastight laminate with brown color to prevent blinding effect during installation

**Dimensions** Standard : 600 x 600 mm

**Edge finish** Straight on the 4 sides

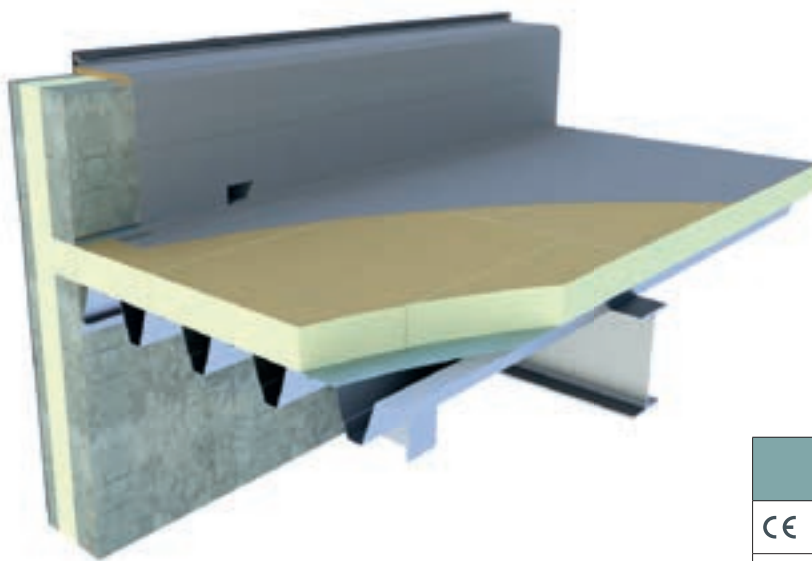


Insulation-thickness [mm]	$R_{D\text{ INSUL}}$ value [m <sup>2</sup> K/W] CE	Boards per pack	m <sup>2</sup> per pack	Boards per pallet	m <sup>2</sup> per pallet	m <sup>2</sup> full load [= 11 pal.]	In stock	On demand*
<b>Roof K: 600 x 600 mm</b>								
30	1,35	32	11,52	320	115,20	2534,00		✓
40	1,85	24	8,64	240	86,40	1900,00	✓	
50	2,30	20	7,20	200	72,00	1584,00	✓	
60	2,75	16	5,76	160	57,60	1267,00	✓	
70	3,20	14	5,04	140	50,40	1108,00		✓
80	3,70	12	4,32	120	43,20	950,00	✓	
98	4,50	10	3,60	100	36,00	792,00	✓	
100	4,60	10	3,60	100	36,00	792,00	✓	
120	5,55	8	2,88	80	28,80	633,00	✓	
140	6,45	6	2,16	72	25,92	570,00	✓	
160	7,40	6	2,16	60	21,60	475,00	✓	

\* Minimum order quantities and special conditions upon consultation

## TECHNICAL PROPERTIES

<b>Declared thermal conductivity :</b> $\lambda_D$ according to EN 13165:2012+A2:2016	0,022 W/m.K
<b>Compressive strength at 10% deformation :</b> CS(10/Y)150 according to EN 826	$\geq 150$ kPa (1,5 kg/cm <sup>2</sup> )
<b>Tensile strength perpendicular to the faces</b>	TR80 $\geq 80$ kPa
<b>Dimensional stability</b> 48h, 70°C, 90%RH 48h, -20°C	DS(70,90)3: $\Delta\epsilon_{l,b} \leq 2$ / $\Delta\epsilon_d \leq 6$ DS(-20,-)1: $\Delta\epsilon_{l,b} \leq 1$ / $\Delta\epsilon_d \leq 2$
<b>Deformation under compressive load and temperature conditions</b>	DLT(2) $\leq 5\%$
<b>Density of the PIR foam</b>	32 kg/m <sup>3</sup> $\pm$ 3 kg/m <sup>3</sup>
<b>Water vapour transmission resistance of the PIR foam : <math>\mu</math></b>	50-100
<b>Reaction to fire class</b>	F according to EN 13501-1
<b>Long term water absorption</b>	WL(T)2 according to EN 13165 < 2%



Certificates	
CE	$\lambda$ 0,022 W/m.K
EPD	11-1941 : 2018
ACERMI	n° 13/121/818



# UTHERM Roof BM

Insulation board  
for roofs

Roof BM is a PIR insulation board finished on one side with a gas open bituminized glassfleece and on the other side with a gas open mineralized glassfleece.

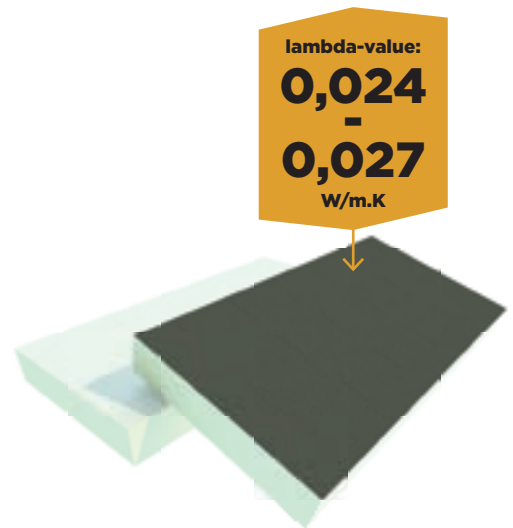
**Application** Insulation boards for flat roofs

**Insulation** Polyisocyanurate (PIR)  
**Declared lambda-value ( $\lambda_D$ ):**  
**0,027 W/m.K (d < 80 mm)**  
**0,026 W/m.K (80 mm ≤ d < 120 mm)**  
**0,024 W/m.K (d ≥ 120 mm)**

**Facing** B : bituminized glassfleece  
M : mineralised glassfleece

**Dimensions** Standard: 1200 x 600 mm

**Edge finish** Straight on the 4 sides

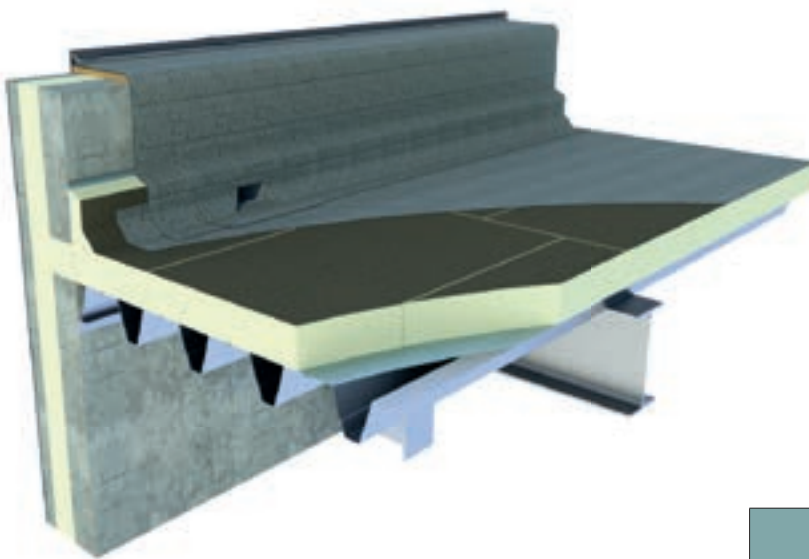


Insulation-thickness [mm]	R <sub>D INSUL</sub> value [m <sup>2</sup> K/W] CE	Boards per pack	m <sup>2</sup> per pack	Boards per pallet	m <sup>2</sup> per pallet	m <sup>2</sup> full load [= 22 pal.]	In stock	On demand*
<b>Roof BM: 1.200 x 600 mm</b>								
30	1,10	16	11,52	160	115,20	2.534,40		✓
40	1,45	12	8,64	120	86,40	1.900,80		✓
50	1,85	10	7,20	100	72,00	1.584,00		✓
60	2,20	8	5,76	80	57,60	1.267,20	✓	
70	2,55	7	5,04	70	50,40	1.108,80		✓
80	3,05	6	4,32	60	43,20	950,40	✓	
100	3,80	5	3,60	50	36,00	792,00	✓	
120	5,00	4	2,88	40	28,80	633,60	✓	
140	5,80	3	2,16	36	25,92	570,24		✓
160	6,65	3	2,16	30	21,60	475,20		✓
200	8,30	2	1,44	24	17,28	380,16		✓

\* Minimum order quantities and special conditions upon consultation

## TECHNICAL PROPERTIES

<b>Declared thermal conductivity :</b> $\lambda_D$ according to EN 13165:2012+A2:2016	0,027 W/m.K (d < 80 mm) 0,026 W/m.K (80 mm ≤ d < 120 mm) 0,024 W/m.K (d ≥ 120 mm)
<b>Compressive strength at 10% deformation :</b> CS(10/Y)150 according to EN 826	≥ 150 kPa (1,5 kg/cm <sup>2</sup> )
<b>Tensile strength perpendicular to the faces</b>	TR80 ≥ 80 kPa
<b>Dimensional stability</b> 48h, 70°C, 90%RH 48h, -20°C	DS(70,90)3: $\Delta\epsilon_{l,b} \leq 2$ / $\Delta\epsilon_d \leq 6$ DS(-20,-)1: $\Delta\epsilon_{l,b} \leq 1$ / $\Delta\epsilon_d \leq 2$
<b>Deformation under compressive load and temperature conditions</b>	DLT(2) ≤ 5%
<b>Density of the PIR foam</b>	32 kg/m <sup>3</sup> ± 3 kg/m <sup>3</sup>
<b>Water vapour transmission resistance of the PIR foam : <math>\mu</math></b>	50-100
<b>Reaction to fire class</b>	F according to EN 13501-1
<b>Long term water absorption</b>	WL(T)2 according to EN 13165 < 2%



Certificates	
CE	$\lambda$ 0,024 - 0,027 W/m.K
DOP	Utherm Roof BM v1



# Sarking



**Insulation boards with an integrated underlay make any pitched roof wind- and waterproof in no time.**





# INSULATION FOR YOUR PITCHED ROOF



**(Post-) insulation  
on the outside  
with Utherm  
Sarking**

→ Immediately wind-  
and waterproof?

→ **Utherm Sarking LE** — 42

→ Wind- and waterproof  
with fire class E

→ **Utherm Sarking LE Plus** — 44

**(Post-) insulation  
on the inside**

→ **Utherm Attic L GYP** — 58



# UTHERM Sarking LE

Insulation board  
for pitched roof  
and sarking

Sarking LE is a PIR insulation board Euroclass E finished on both sides with a multilayer gastight laminate facer.

**Application** Insulation boards for the outside of pitched roof and as sarking without (adhered) underslating

**Insulation** Polyisocyanurate (PIR)  
**Declared lambda-value ( $\lambda_D$ ):**  
**0,022 W/m.K**

**Facing** LE : multilayer gastight laminate

**Dimensions** Standard: 2400 x 1200 mm

**Edge finish** Tongue- & groove joint along the 4 sides



lambda-value:  
**0,022**  
W/m.K



Insulation-thickness [mm]	$R_{D\text{ INSUL}}$ value [m <sup>2</sup> K/W] CE	Boards per pack	m <sup>2</sup> per pack	Boards per pallet	m <sup>2</sup> per pallet	m <sup>2</sup> full load [= 11 pal.]	In stock	On demand*
<b>Sarking LE: 2400 x 1200 mm</b>								
40	1,80	12	34,56	60	172,80	1.900,80		✓
60	2,70	8	23,04	40	115,20	1.267,20		✓
80	3,60	6	17,28	30	86,40	950,40		✓
100	4,50	3	8,64	24	69,12	760,32		✓
120	5,45	4	11,52	20	57,60	633,60		✓
140	6,35	3	8,64	18	51,84	570,24		✓
160	7,25	3	8,64	15	43,20	475,20		✓
180	8,15	2	5,76	14	40,32	380,16		✓
200	9,05	2	5,76	12	34,56	380,16		✓

\* Minimum order quantities and special conditions upon consultation

## TECHNICAL PROPERTIES

<b>Declared thermal conductivity :</b> $\lambda_D$ according to EN 13165:2012+A2:2016	0,022 W/m.K
<b>Compressive strength at 10% deformation :</b> CS(10/Y)150 according to EN 826	$\geq 150$ kPa (1,5 kg/cm <sup>2</sup> )
<b>Tensile strength perpendicular to the faces</b>	TR80 $\geq 80$ kPa
<b>Dimensional stability</b> 48h, 70°C, 90%RH 48h, -20°C	DS(70,90)3: $\Delta\epsilon_{l,b} \leq 2$ / $\Delta\epsilon_d \leq 6$ DS(-20,-)1: $\Delta\epsilon_{l,b} \leq 1$ / $\Delta\epsilon_d \leq 2$
<b>Deformation under compressive load and temperature conditions</b>	DLT(2) $\leq 5\%$
<b>Density of the PIR foam</b>	32 kg/m <sup>3</sup> $\pm$ 3 kg/m <sup>3</sup>
<b>Water vapour transmission resistance of the PIR foam : <math>\mu</math></b>	50-100
<b>Reaction to fire class</b>	E according to EN 13501-1
<b>Long term water absorption</b>	WL(T)2 according to EN 13165 < 2%



Certificates	
CE	$\lambda$ 0,022 W/m.K
DOP	Utherm Sarking LE v2
EPD	B-EPD n° 21-0009-004-00-00-EN

# UTHERM

## Sarking LE Plus

**Insulation board  
for pitched roof  
and sarking**

**Sarking LE Plus is a PIR insulation board Euroclass E finished on both sides with a multilayer gastight laminate facer, on the outer side finished with a waterproof, vapor open underlayment adhered on the board surface.**

**Application** Sarking LE Plus is a PIR insulation board Euroclass E finished on both sides with a multilayer gastight laminate facer, on the outer side finished with a waterproof, vapor open underlayment adhered on the board surface.

**Insulation** Polyisocyanurate (PIR)  
**Declared lambda-value ( $\lambda_D$ ):**  
**0,022 W/m.K**

**Facing** LE : multilayer gastight laminate  
Plus : waterproof, vapor open underlayment; blue color, adhered board, with overlap

**Dimensions** Standard: 2.400 x 1.200 mm

**Edge finish** Tongue- & groove joint along the 4 sides

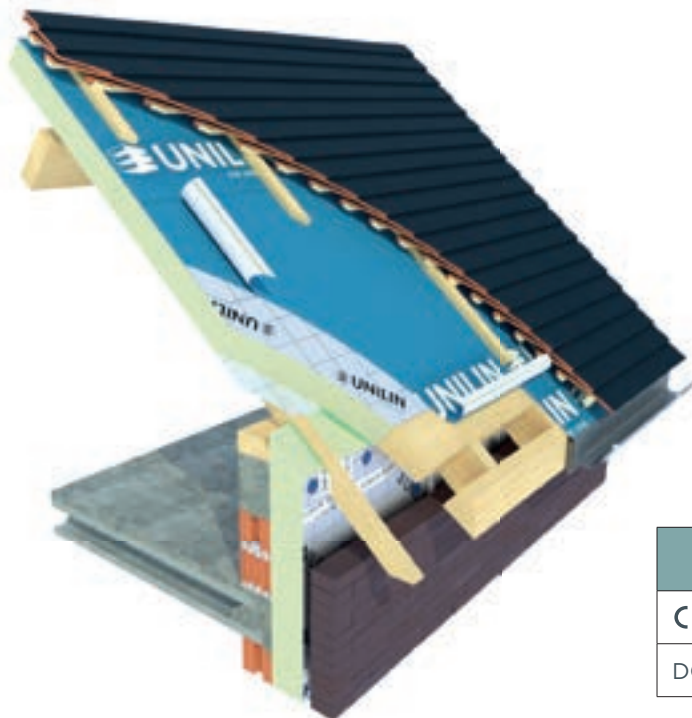


Insulation-thickness [mm]	R <sub>D INSUL</sub> value [m <sup>2</sup> K/W] CE	Boards per pack	m <sup>2</sup> per pack	Boards per pallet	m <sup>2</sup> per pallet	m <sup>2</sup> full load [= 11 pal.]	In stock	On demand*
<b>Sarking LE Plus: 2.400 x 1.200 mm</b>								
60	2,70	6	17,28	42	120,96	1.330,56		✓
80	3,60	4	11,52	28	80,64	887,04	✓	
100	4,50	3	8,64	24	69,12	760,32	✓	
120	5,45	3	8,64	21	60,48	665,28	✓	
140	6,35	3	8,64	18	51,84	570,24	✓	
160	7,25	2	5,76	14	40,32	443,52	✓	
180	8,15	2	5,76	14	40,32	443,52		✓
200	9,05	2	5,76	12	34,56	380,16		✓

\* Minimum order quantities and special conditions upon consultation

## TECHNICAL PROPERTIES

<b>Declared thermal conductivity :</b> $\lambda_D$ according to EN 13165:2012+A2:2016	0,022 W/m.K
<b>Compressive strength at 10% deformation :</b> CS(10/Y)150 according to EN 826	$\geq 150$ kPa (1,5 kg/cm <sup>2</sup> )
<b>Tensile strength perpendicular to the faces</b>	TR80 $\geq 80$ kPa
<b>Dimensional stability</b> 48h, 70°C, 90%RH 48h, -20°C	DS(70,90)3: $\Delta\epsilon_{l,b} \leq 2$ / $\Delta\epsilon_d \leq 6$ DS(-20,-)1: $\Delta\epsilon_{l,b} \leq 1$ / $\Delta\epsilon_d \leq 2$
<b>Deformation under compressive load and temperature conditions</b>	DLT(2) $\leq 5\%$
<b>Density of the PIR foam</b>	32 kg/m <sup>3</sup> $\pm$ 3 kg/m <sup>3</sup>
<b>Water vapour transmission resistance of the PIR foam : <math>\mu</math></b>	$\leq 0,03$ m
<b>Reaction to fire class</b>	E according to EN 13501-1
<b>Long term water absorption</b>	WL(T)2 according to EN 13165 < 2%



Certificates	
CE	$\lambda$ 0,022 W/m.K
DOP	Utherm Sarking LE Plus v4



# Wall



**We keep innovating our range, for instance through a tongue and groove system that makes the installation of insulation boards even easier.**





# INSULATION FOR YOUR WALL

**Insulation on  
the outside  
-  
Façade cladding  
systems &  
cavity wall**

→ Standard solution



→ **Utherm Wall LE** ————— 48

→ **Utherm Wall A** ————— 50

**Insulation on  
the inside**

→ Standard solution

→ **Utherm Wall K Gyp** ————— 52


→ Damp space

→ **Utherm Wall K Gyp H** ————— 54

# UTHERM Wall LE

Insulation board  
for cavity wall  
and ventilated  
façade

Wall LE is a PIR insulation board Euroclass E finished on both sides with a multilayer gastight laminate facer.

<b>Application</b>	Insulation boards for cavity walls
<b>Insulation</b>	Polyisocyanurate (PIR) <b>Declared lambda-value (<math>\lambda_D</math>):</b> <b>0,022 W/m.K</b>
<b>Facing</b>	LE: multilayer gastight laminate
<b>Dimensions</b>	Standard: 1.200 x 600 mm
<b>Edge finish</b>	Tongue- & groove joint along the 4 sides 

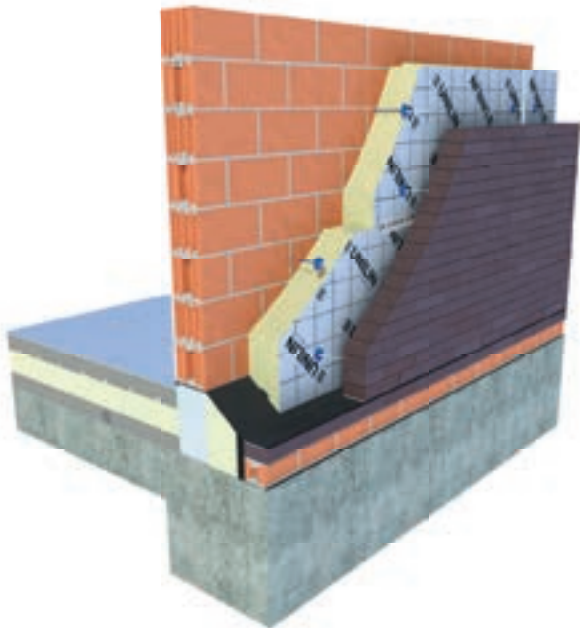


Insulation-thickness [mm]	$R_{D\text{ INSUL}}$ value [m <sup>2</sup> K/W] CE	Boards per pack	m <sup>2</sup> per pack	Boards per pallet	m <sup>2</sup> per pallet	m <sup>2</sup> full load [= 22 pal.]	In stock	On demand*
<b>Wall LE: 1.200 x 600 mm</b>								
40	1,80	12	8,64	120	86,40	1.900,80		✓
50	2,25	10	7,20	100	72,00	1.584,00		✓
60	2,70	8	5,76	80	57,60	1.267,20		✓
70	3,15	7	5,04	70	50,40	1.108,80		✓
80	3,60	6	4,32	60	43,20	950,40		✓
90	4,05	5	3,60	50	36,00	792,00		✓
100	4,50	5	3,60	50	36,00	792,00		✓
110	5,00	4	2,88	40	28,80	633,60		✓
120	5,45	4	2,88	40	28,80	633,60		✓
140	6,35	3	2,16	36	25,92	570,24		✓
160	7,25	3	2,16	30	21,60	475,20		✓

\* Minimum order quantities and special conditions upon consultation

## TECHNICAL PROPERTIES

<b>Declared thermal conductivity :</b> $\lambda_D$ according to EN 13165:2012+A2:2016	0,022 W/m.K
<b>Compressive strength at 10% deformation :</b> CS(10/Y)150 according to EN 826	$\geq 150$ kPa (1,5 kg/cm <sup>2</sup> )
<b>Tensile strength perpendicular to the faces</b>	TR80 $\geq 80$ kPa
<b>Dimensional stability</b> 48h, 70°C, 90%RH 48h, -20°C	DS(70,90)3: $\Delta\epsilon_{l,b} \leq 2$ / $\Delta\epsilon_d \leq 6$ DS(-20,-)1: $\Delta\epsilon_{l,b} \leq 1$ / $\Delta\epsilon_d \leq 2$
<b>Deformation under compressive load and temperature conditions</b>	DLT(2) $\leq 5\%$
<b>Density of the PIR foam</b>	32 kg/m <sup>3</sup> $\pm$ 3 kg/m <sup>3</sup>
<b>Water vapour transmission resistance of the PIR foam : <math>\mu</math></b>	50-100
<b>Reaction to fire class</b>	E according to EN 13501-1 B-s1, d0 (End-Use Eternit cladding, contact Unilin for the conditions of application)
<b>Long term water absorption</b>	WL(T)2 according to EN 13165 < 2%




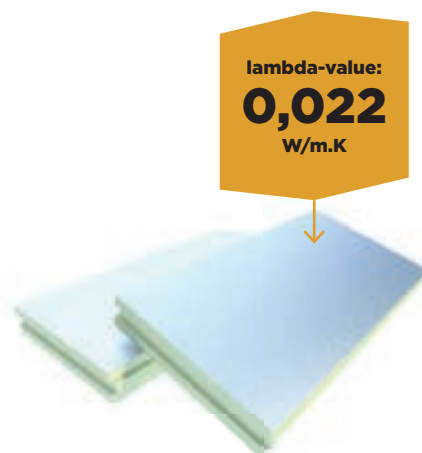
Certificates	
CE	$\lambda$ 0,022 W/m.K
DOP	Utherm Wall LE v3
EPD	B-EPD n° 21-0009-004-00-00-EN

# UTHERM Wall A

Insulation board  
for ventilated  
façade and fire  
reaction class D

Wall A is a PIR insulation board Euroclass D finished on both sides with a gastight pure aluminium facing of approx. 50 µm.

<b>Application</b>	Insulation boards for cavity walls and for ventilated façades
<b>Insulation</b>	Polyisocyanurate (PIR) <b>Declared lambda-value (<math>\lambda_D</math>):</b> <b>0,022 W/m.K</b>
<b>Facing</b>	A : light-wiped, gastight pure aluminum of approx. 50 µm
<b>Dimensions</b>	Standard: 1200 x 600 mm
<b>Edge finish</b>	Tongue- & groove joint along the 4 sides 

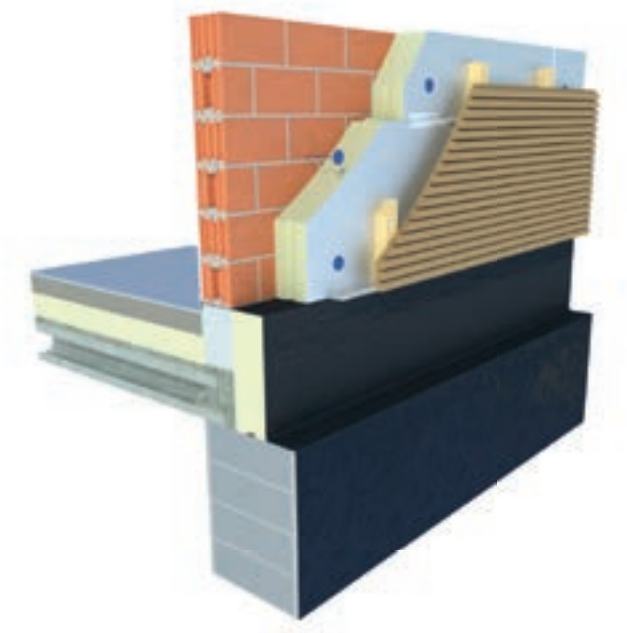


Insulation-thickness [mm]	$R_{D\text{ INSUL}}$ value [m <sup>2</sup> K/W] CE	Boards per pack	m <sup>2</sup> per pack	Boards per pallet	m <sup>2</sup> per pallet	m <sup>2</sup> full load [= 22 pal.]	In stock	On demand*
<b>Wall A: 1200 x 600 mm</b>								
40	1,80	12	8,64	120	86,40	1.900,80		✓
50	2,25	10	7,20	100	72,00	1.584,00		✓
60	2,70	8	5,76	80	57,60	1.267,20		✓
70	3,15	7	5,04	70	50,40	1.108,80		✓
80	3,60	6	4,32	60	43,20	950,40	✓	
90	4,05	5	3,60	50	36,00	792,00		✓
100	4,50	5	3,60	50	36,00	792,00	✓	
110	5,00	4	2,88	40	28,80	633,60		✓
120	5,45	4	2,88	40	28,80	633,60	✓	
140	6,35	3	2,16	36	25,92	570,24	✓	
160	7,25	3	2,16	30	21,60	475,20		✓

\* Minimum order quantities and special conditions upon consultation

## TECHNICAL PROPERTIES

<b>Declared thermal conductivity :</b> $\lambda_D$ according to EN 13165:2012+A2:2016	0,022 W/m.K
<b>Compressive strength at 10% deformation :</b> CS(10/Y)150 according to EN 826	$\geq 150$ kPa (1,5 kg/cm <sup>2</sup> )
<b>Tensile strength perpendicular to the faces</b>	TR80 $\geq 80$ kPa
<b>Dimensional stability</b> 48h, 70°C, 90%RH 48h, -20°C	DS(70,90)3: $\Delta\epsilon_{l,b} \leq 2$ / $\Delta\epsilon_d \leq 6$ DS(-20,-)1: $\Delta\epsilon_{l,b} \leq 1$ / $\Delta\epsilon_d \leq 2$
<b>Deformation under compressive load and temperature conditions</b>	DLT(2) $\leq 5\%$
<b>Density of the PIR foam</b>	32 kg/m <sup>3</sup> $\pm$ 3 kg/m <sup>3</sup>
<b>Water vapour transmission resistance of the PIR foam : <math>\mu</math></b>	50-100
<b>Reaction to fire class</b>	D-s2, d0 according to EN 13501-1 B-s1, d0 (End-Use Eternit cladding, contact Unilin for the conditions of application)
<b>Long term water absorption</b>	WL(T)2 according to EN 13165 < 2%



Certificates	
CE	$\lambda$ 0,022 W/m.K
DOP	Utherm Wall A v3
EPD	B-EPD n° 21-0009-003-00-00-EN



# UTHERM Wall K Gyp

Insulation board  
for post-insulation  
of walls  
and façades

Wall K Gyp is a PIR insulation board finished on both sides with a multilayer gastight laminate facer. Wall K Gyp is at one side finished with a layer of 12,5 mm thick plasterboard.

**Application** Insulation and finishing combined in one board for post-insulation of walls and façades from the inside out

**Insulation** Polyisocyanurate (PIR)  
**Declared lambda-value ( $\lambda_p$ ):**  
**0,022 W/m.K**

**Facing** K : multilayer gastight laminate  
Gyp : 12,5 mm plasterboard at one side

**Dimensions** Standard: 2.600 x 600 mm  
eller 2.600 x 1.200 mm

**Edge finish** Combination with straight edges on the 4 sides and chamfered plasterboard



lambda-value:  
**0,022**  
W/m.K



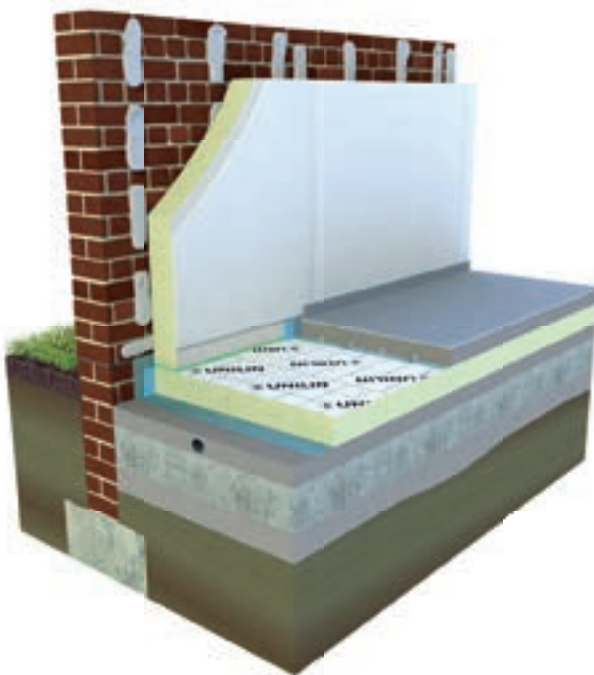
Total thickness [mm]	$R_{D,ISOL.+GYP}$ value [m <sup>2</sup> K/W] CE	Thickness insulation [mm]	Thickness Gyp [mm]	Boards per pallet	m <sup>2</sup> per pallet	Weight [kg/pcs]	In stock	On demand*
Wall K Gyp: 2.600 x 600 mm								
30 + 12,5	1,40	30	12,5	56	87,36	15,90		✓
40 + 12,5	1,85	40	12,5	46	71,76	16,40		✓
50 + 12,5	2,30	50	12,5	38	59,28	16,90		✓
60 + 12,5	2,75	60	12,5	32	49,92	17,40		✓
80 + 12,5	3,65	80	12,5	26	40,56	18,40		✓
100 + 12,5	4,55	100	12,5	18	28,08	19,40		✓
120 + 12,5	5,50	120	12,5	16	24,96	20,40		✓

Total thickness [mm]	$R_{D,ISOL.+GYP}$ value [m <sup>2</sup> K/W] CE	Thickness insulation [mm]	Thickness Gyp [mm]	Boards per pallet	m <sup>2</sup> per pallet	Weight [kg/pcs]	In stock	On demand*
Wall K Gyp: 2.600 x 1.200 mm								
30 + 12,5	1,40	30	12,5	28	87,36	31,85	✓	
40 + 12,5	1,85	40	12,5	23	71,76	32,85	✓	
50 + 12,5	2,30	50	12,5	19	59,28	33,85	✓	
60 + 12,5	2,75	60	12,5	16	49,92	34,85		✓
80 + 12,5	3,65	80	12,5	13	40,56	36,85		✓
100 + 12,5	4,55	100	12,5	9	28,08	38,85	✓	
120 + 12,5	5,50	120	12,5	8	24,96	40,85		✓

\* Minimum order quantities and special conditions upon consultation

## TECHNICAL PROPERTIES

<b>Declared thermal conductivity :</b> $\lambda_D$ according to EN 13165:2012+A2:2016	PIR: 0,022 W/m.K Gyp: 0,25 W/m.K
<b>Compressive strength at 10% deformation :</b> CS(10/Y)150 according to EN 826	$\geq 150$ kPa (1,5 kg/cm <sup>2</sup> )
<b>Tensile strength perpendicular to the faces</b>	TR80 $\geq 80$ kPa
<b>Dimensional stability</b> 48h, 70°C, 90%RH 48h, -20°C	DS(70,90)3: $\Delta\epsilon_{l,b} \leq 2$ / $\Delta\epsilon_d \leq 6$ DS(-20,-)1: $\Delta\epsilon_{l,b} \leq 1$ / $\Delta\epsilon_d \leq 2$
<b>Deformation under compressive load and temperature conditions</b>	DLT(2) $\leq 5\%$
<b>Density of the PIR foam</b>	32 kg/m <sup>3</sup> $\pm$ 3 kg/m <sup>3</sup>
<b>Water vapour transmission resistance of the PIR foam : <math>\mu</math></b>	50-100
<b>Reaction to fire class</b>	B-s1, d0 according to EN 13501-1
<b>Long term water absorption</b>	WL(T)2 according to EN 13165 < 2%



Certificates	
CE	$\lambda$ 0,022 W/m.K
DOP	Utherm Wall K Gyp v4

# UTHERM Wall K Gyp H

Insulation board  
for post-insulation  
of walls and  
façades

Wall K Gyp H is a PIR insulation board finished on both sides with a multilayer gastight laminate facer. Wall K Gyp H is at one side finished with a layer of 12,5 mm thick water and moisture resistant plasterboard.

<b>Application</b>	Insulation and finishing in one board for post-insulation of walls and fasca- des from the inside out
<b>Insulation</b>	Polyisocyanurate (PIR) <b>Declared lambda-value (<math>\lambda_D</math>):</b> <b>0,022 W/m.K</b>
<b>Facing</b>	K : multilayer gastight laminate Gyp H : 12,5 mm plasterboard at one side, grade WPR
<b>Dimensions</b>	Standard: 2.600 x 1.200 mm
<b>Edge finish</b>	Combination with straight edges on the 4 sides and chamfered plasterboard

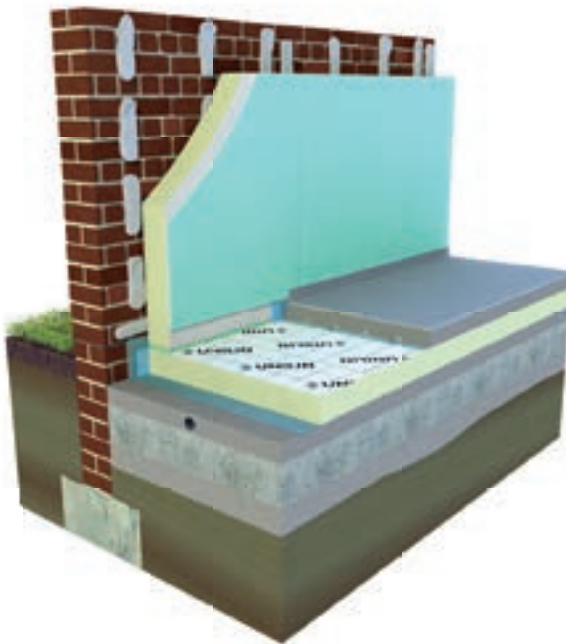


Insulation- thickness [mm]	$R_{D\text{ INSUL}}$ value [m <sup>2</sup> K/W] CE	Boards per pack	m <sup>2</sup> per pack	Boards per pallet	m <sup>2</sup> per pallet	m <sup>2</sup> full load [= 22 pal.]	In stock	On demand*
Wall K Gyp H: 2.600 x 1.200 mm								
30 + 12,5	1,40	30	12,50	28	87,36	31,85	✓	
40 + 12,5	1,85	40	12,50	23	71,76	32,85	✓	
50 + 12,5	2,30	50	12,50	19	59,28	33,85	✓	
60 + 12,5	2,75	60	12,50	16	49,92	34,85	✓	
80 + 12,5	3,65	80	12,50	13	40,56	36,85	✓	
100 + 12,5	4,55	100	12,50	9	28,08	38,85	✓	
120 + 12,5	5,50	120	12,50	8	24,96	40,85	✓	

\* Minimum order quantities and special conditions upon consultation

## TECHNICAL PROPERTIES

<b>Declared thermal conductivity :</b> $\lambda_D$ according to EN 13165:2012+A2:2016	PIR : 0,022 W/m.K Gyp H : 0,25 W/m.K
<b>Compressive strength at 10% deformation :</b> CS(10/Y)150 according to EN 826	$\geq 150$ kPa (1,5 kg/cm <sup>2</sup> )
<b>Tensile strength perpendicular to the faces</b>	TR80 $\geq 80$ kPa
<b>Dimensional stability</b> 48h, 70°C, 90%RH 48h, -20°C	DS(70,90)3: $\Delta\epsilon_{l,b} \leq 2$ / $\Delta\epsilon_d \leq 6$ DS(-20,-)1: $\Delta\epsilon_{l,b} \leq 1$ / $\Delta\epsilon_d \leq 2$
<b>Deformation under compressive load and temperature conditions</b>	DLT(2) $\leq 5\%$
<b>Density of the PIR foam</b>	32 kg/m <sup>3</sup> $\pm$ 3 kg/m <sup>3</sup>
<b>Water vapour transmission resistance of the PIR foam : <math>\mu</math></b>	50-100
<b>Reaction to fire class</b>	B-s1, d0 according to EN 13501-1
<b>Long term water absorption</b>	WL(T)2 according to EN 13165 < 2%



Certificates	
CE	$\lambda$ 0,022 W/m.K
DOP	Utherm Wall K Gyp H v4



# Attic

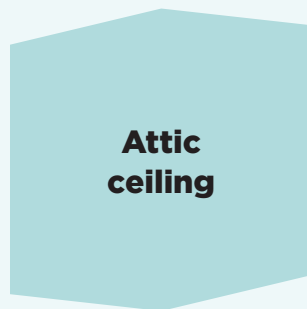


**We like to make things easy for you with insulation boards that let you simultaneously insulate and finish your attic.**





# INSULATION FOR YOUR ATTIC



**Attic  
ceiling**



**Utherm Attic L Gyp** — 58



**Attic floor**




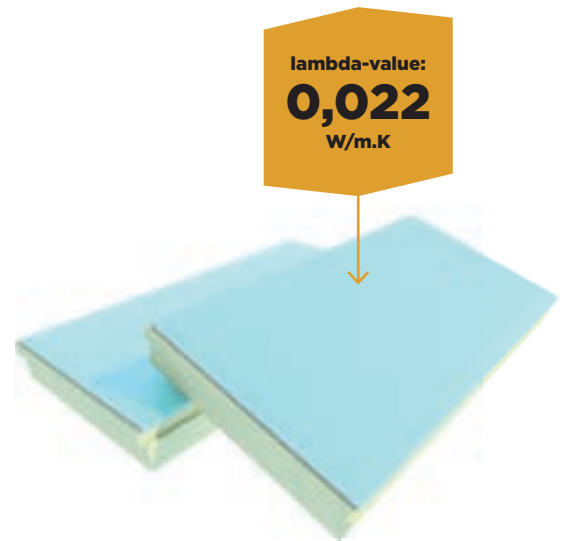
**Utherm Attic L OSB** — 60

# UTHERM Attic L Gyp

Insulation board  
for post-insulation  
of attics

Attic L Gyp is a PIR insulation board finished on both sides with a multilayer gastight laminate facer. Attic L Gyp is at one side finished with a layer of 12,5 mm thick plasterboard.

<b>Application</b>	Insulation and finishing in one board for post-insulation of attics from the inside out	
<b>Insulation</b>	Polyisocyanurate (PIR) <b>Declared lambda-value (<math>\lambda_D</math>): 0,022 W/m.K</b> R-value plasterboard (Gyp) : max. 0,066 m <sup>2</sup> .K/W	
<b>Facing</b>	L : multilayer gastight laminate Gyp : 12,5 mm plasterboard at one side	
<b>Dimensions</b>	Standard	Net : 1189 x 600 mm Gross : 1200 x 613 mm
<b>Edge finish</b>	Combination with tongue- & groove joint along the 4 sides	

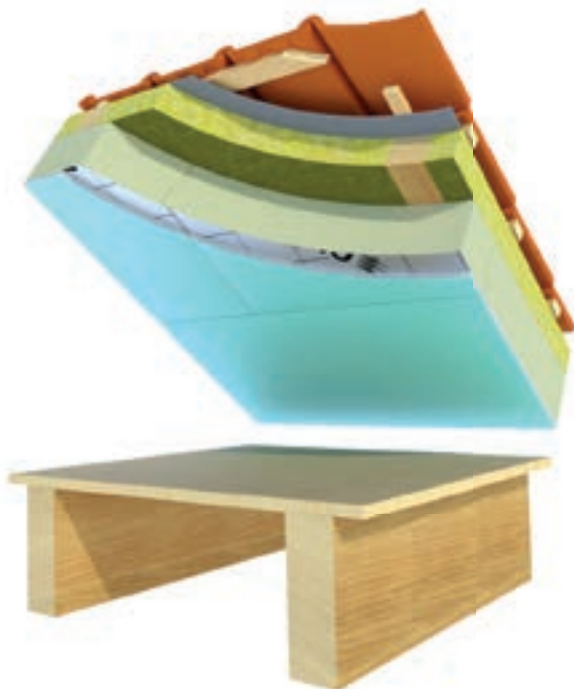


Total-thickness [mm]	R <sub>D INSUL + CB</sub> value [m <sup>2</sup> K/W] CE	Thickness insulation [mm]	Thickness CB [mm]	Boards per pallet	m <sup>2</sup> per pallet	Weight [kg/pcs]	m <sup>2</sup> full load [= 44 pal.]	In stock	On demand*
<b>Attic L Gyp: 1200 x 613 mm</b>									
80 + 12,5	3,70	80	12,50	24	17,65	8,35	776,60	✓	
100 + 12,5	4,60	100	12,50	20	14,71	8,80	647,24	✓	
120 + 12,5	5,50	120	12,50	18	13,24	9,30	582,56		✓
140 + 12,5	6,40	140	12,50	14	10,30	9,75	453,20		✓

\* Minimum order quantities and special conditions upon consultation

## TECHNICAL PROPERTIES

<b>Declared thermal conductivity : <math>\lambda_D</math></b>	PIR : 0,022 W/m.K Gyp : 0,25 W/m.K
<b>Compressive strength of the PIR foam at 10% deformation : CS(10/Y)150 according to EN 826</b>	$\geq 150$ kPa (1,5 kg/cm <sup>2</sup> )
<b>Tensile strength of the PIR foam perpendicular to the faces</b>	TR80 $\geq 80$ kPa
<b>Dimensional stability of the PIR foam</b> 48h, 70°C, 90%RH 48h, -20°C	DS(70,90)3: $\Delta\epsilon_{l,b} \leq 2$ / $\Delta\epsilon_d \leq 6$ DS(-20,-)1: $\Delta\epsilon_{l,b} \leq 1$ / $\Delta\epsilon_d \leq 2$
<b>Deformation under compressive load and temperature conditions of the PIR foam</b>	DLT(2) $\leq 5\%$
<b>Density of the PIR foam</b>	32 kg/m <sup>3</sup> $\pm$ 3 kg/m <sup>3</sup>
<b>Water vapour transmission resistance of the PIR foam : <math>\mu</math></b>	50-100
<b>Reaction to fire class</b>	B-s1, d0 according to EN 13501-1
<b>Long term water absorption of the PIR foam</b>	WL(T)2 according to EN 13165 < 2%



Certificates	
CE	$\lambda$ 0,022 W/m.K
DOP	Utherm Attic L Gyp v5

# UTHERM Attic L OSB

Insulation board  
for post-insulation  
of attics

Attic L OSB is a PIR insulation board finished on both sides with a multilayer gastight laminate facer. Attic L OSB is at one side finished with a layer of 12 mm thick OSB stranded wood board.

**Application** Insulation and finishing in one board for post-insulation of attic floors from the inside out

**Insulation** Polyisocyanurate (PIR)  
**Declared lambda-value ( $\lambda_D$ ):**  
**0,022 W/m.K**  
R-value OSB stranded wood board (OSB) : max. 0,092 m<sup>2</sup>.K / W

**Facing** L : multilayer gastight laminate  
OSB : 12 mm OSB stranded wood board at one side

**Dimensions** Standard Net : 1189 x 600 mm  
Gross : 1200 x 613 mm

**Edge finish** Combination with tongue- & groove joint along the 4 sides

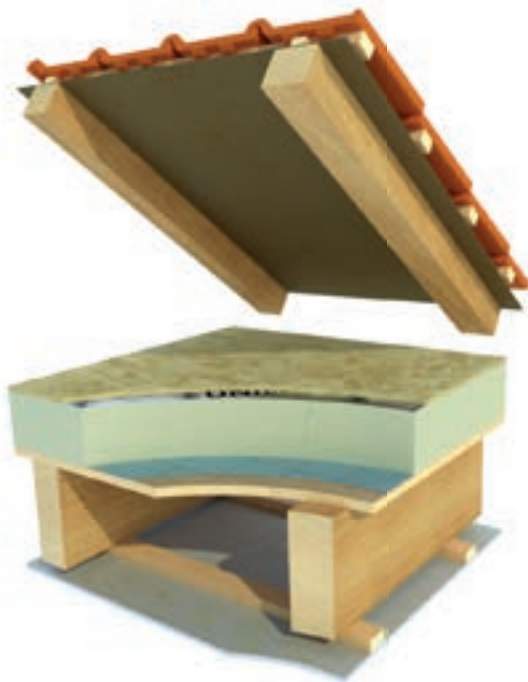


Total-thickness [mm]	R <sub>D INSUL + CB</sub> value [m <sup>2</sup> K/W] CE	Thickness insulation [mm]	Thickness CB [mm]	Boards per pallet	m <sup>2</sup> per pallet	Weight [kg/pcs]	m <sup>2</sup> full load [= 44 pal.]	In stock	On demand*
<b>Attic L OSB: 1200 x 613 mm</b>									
40 + 12	1,90	40	12	46	33,84	6,25	1.488,96		✓
50 + 12	2,35	50	12	40	29,42	6,50	1.294,48		✓
60 + 12	2,80	60	12	34	25,01	6,75	1.100,44		✓
80 + 12	3,70	80	12	26	19,13	7,20	841,72	✓	
100 + 12	4,60	100	12	20	14,71	7,70	647,24	✓	
120 + 12	5,50	120	12	18	13,24	8,15	582,56		✓
140 + 12	6,45	140	12	14	10,30	8,60	453,20		✓
160 + 12	7,35	160	12	12	8,83	9,10	388,52		✓

\* Minimum order quantities and special conditions upon consultation

## TECHNICAL PROPERTIES

<b>Declared thermal conductivity : <math>\lambda_D</math></b>	PIR : 0,022 W/m.K OSB : 0,130 W/m.K
<b>Compressive strength at 10% deformation of the PIR foam : CS(10/Y)150 according to EN 826</b>	$\geq 150$ kPa (1,5 kg/cm <sup>2</sup> )
<b>Tensile strength of the PIR foam perpendicular to the faces</b>	TR80 $\geq 80$ kPa
<b>Dimensional stability of the PIR foam</b> 48h, 70°C, 90%RH 48h, -20°C	DS(70,90)3: $\Delta\epsilon_{l,b} \leq 2$ / $\Delta\epsilon_d \leq 6$ DS(-20,-)1: $\Delta\epsilon_{l,b} \leq 1$ / $\Delta\epsilon_d \leq 2$
<b>Deformation under compressive load and temperature conditions</b>	DLT(2) $\leq 5\%$
<b>Density of the PIR foam</b>	32 kg/m <sup>3</sup> $\pm$ 3 kg/m <sup>3</sup>
<b>Water vapour transmission resistance of the PIR foam : <math>\mu</math></b>	50-100
<b>Reaction to fire class</b>	D-s1, d0 according to EN 13501-1
<b>Long term water absorption of the PIR foam</b>	WL(T)2 according to EN 13165 < 2%





# Accessories

A close-up photograph of a teal-colored metal panel joint. A thick, textured green foam sealant is applied along the edge of the panel, filling the gap between it and another panel. The background shows the teal surface of the metal panels and some screws.

**Let us give  
you a helping  
hand with  
accessories  
that facilitate  
installation.**

## Unilin Insulation lends a hand with practical aids that make it easier to install your insulation boards.

Consult the technical data sheet of the products below for additional information and take a look at the processing

guidelines to help you install the insulation boards properly. For more info go to [unilininsulation.com](http://unilininsulation.com)



# Accessoires



## UNITAPE

Duct tape to tape off the seams between Wall insulation boards. Apply on a dry and clean substrate and press firmly.

1. Making insulation boards wind and watertight
2. User-friendly (application also possible with tape dispenser)
3. Excellent, long-lasting adhesive power (lasts twice as long)
4. Moisture-resistant and UV stable

<b>UNITAPE</b>	50 rm/roll, width 50mm
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## UNIFLEX

Flexible fitting foam for sealing seams and connection joints between the insulation boards.

1. Ready-for-use, self-expanding polyurethane foam
2. Sealing seams and connection joints = better airtightness
3. 3 x more flexible than standard PU foam: follows the joint and does not tear
4. Excellent bonding with wood and other construction materials
5. Apply with a gun

<b>UNIFLEX</b>	750 ml
<b>CLEANER</b>	750 ml

## UNDERLAY STRIP

Self-adhesive underlay strips for an air- and watertight connection with e.g. roof valleys, hips and skylights.

<b>UNDERLAY STRIP</b>	25 rm/roll, width 330mm
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## For a textbook installation



### UTHERM SARKING SCREWS

High-quality screws, especially developed for fixing Utherm Sarking insulation boards; allow perpendicular installation.

Length (mm)	Diametre (mm)	Pcs/box
180	6	50
200	6	50
220	6	50
240	6	50
260	6	50
280	6	50
300	6	50
330	8	50
360	8	50



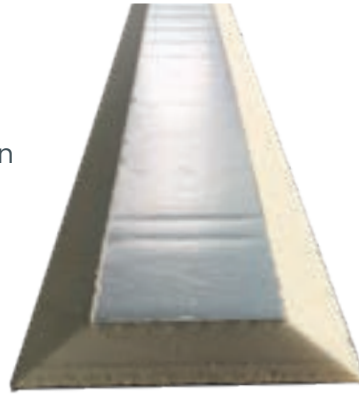
### UTHERM ATTIC SCREWS

Phosphated screws for affixing Utherm Attic insulation boards to the roof structure using plasterboard or gypsum fibre. Your guarantee of a high-quality finish and optimal fixing to the substructure.

Length (mm)	Diametre (mm)	Pcs/box
120	4,8	250
140	4,8	250
160	4,8	100
180	6,0	100

## ANGLE FILLETS

Angle fillets create a smooth, insulated transition between the horizontal flat roof surface and the vertical upstand. Unilin Insulation's angle fillet is a roof edge finish in the shape of an upward angled piece of PIR foam parallel to the roof's edge, enabling the roof covering to continue to the roof's edge and over the angle fillet.




**For a nice finish**

	Width (mm)	Length (mm)	Depth (mm)	Pcs/box
ALUMINIUM VERSION	100 x 100	1.200	30	42
	50 x 50	1.200	30	60





# Service & logistics



**Finding the best insulation solution for your project together.**



**Contact:**

**Customer service**

+32 56 73 59 90

[export.insulation@unilin.com](mailto:export.insulation@unilin.com)



# Service & logistics

## ORDERS

For orders and questions regarding deliveries and billing you can contact us by phone at +32 56 73 59 90 or send an email to [export.insulation@unilin.com](mailto:export.insulation@unilin.com).

All orders must specify the right quantities and specifications as well as a delivery address. Without correct or complete delivery information, deliveries cannot be made. Our Customer Service can be reached every working day from 8 a.m. till noon, and from 1 - 5 p.m. (Fridays until 4 p.m.).

## CANCELLING ORDERS

Orders consisting of stock products (this information can be found per product in the delivery program or by consulting our customer service department) can be cancelled free of charge on condition that our Customer Service is notified by email or telephone within 24 hours of the order confirmation. Please note that this only applies to orders where there are at least five days between the order confirmation and the scheduled delivery date.

Orders consisting of **non-stock products** cannot be cancelled.

## PAYMENT TERMS

Payment must be made in accordance with the applicable terms. These stipulations do not interfere with our general terms & conditions, which are available at our website [www.unilininsulation.com](http://www.unilininsulation.com)

## DELIVERY TERMS

Unless otherwise agreed all goods are delivered DDP (Delivery Duty Paid) in case of truck transport and collected by the customer FCA (Free Carrier) in case of container transport.

### 1° Orders of stock products

- Delivery of full loads: delivery from the day of the order + max. 5 working days

### 2° Orders of non-stock products

- Minimum order quantity = ca. 1000m<sup>2</sup>
- An additional delivery period of up to 10 working days applies
- Acceptance of the entire quantity produced is mandatory (order quantity + max. 5%)

Delivery periods are expressed in working days. Non-working days are weekend and (public) holidays.



## NUMBER OF UNLOADING POINTS

Full loads can be unloaded on no more than 2 locations within a 100 km radius, with at least 6 pallets (600 x 1200mm) or 3 pallets (1200 x 2400mm) per unloading point. The surcharge for an additional loading point is determined as a function of volume and destination.

## UNLOADING GOODS

It is assumed that unloading of goods can start immediately when a truck arrives at its destination. When a truck is referred to a different unloading address, Unilin Insulation reserves the right to charge additional costs. Unloading is handled by the customer, unless specifically agreed otherwise.

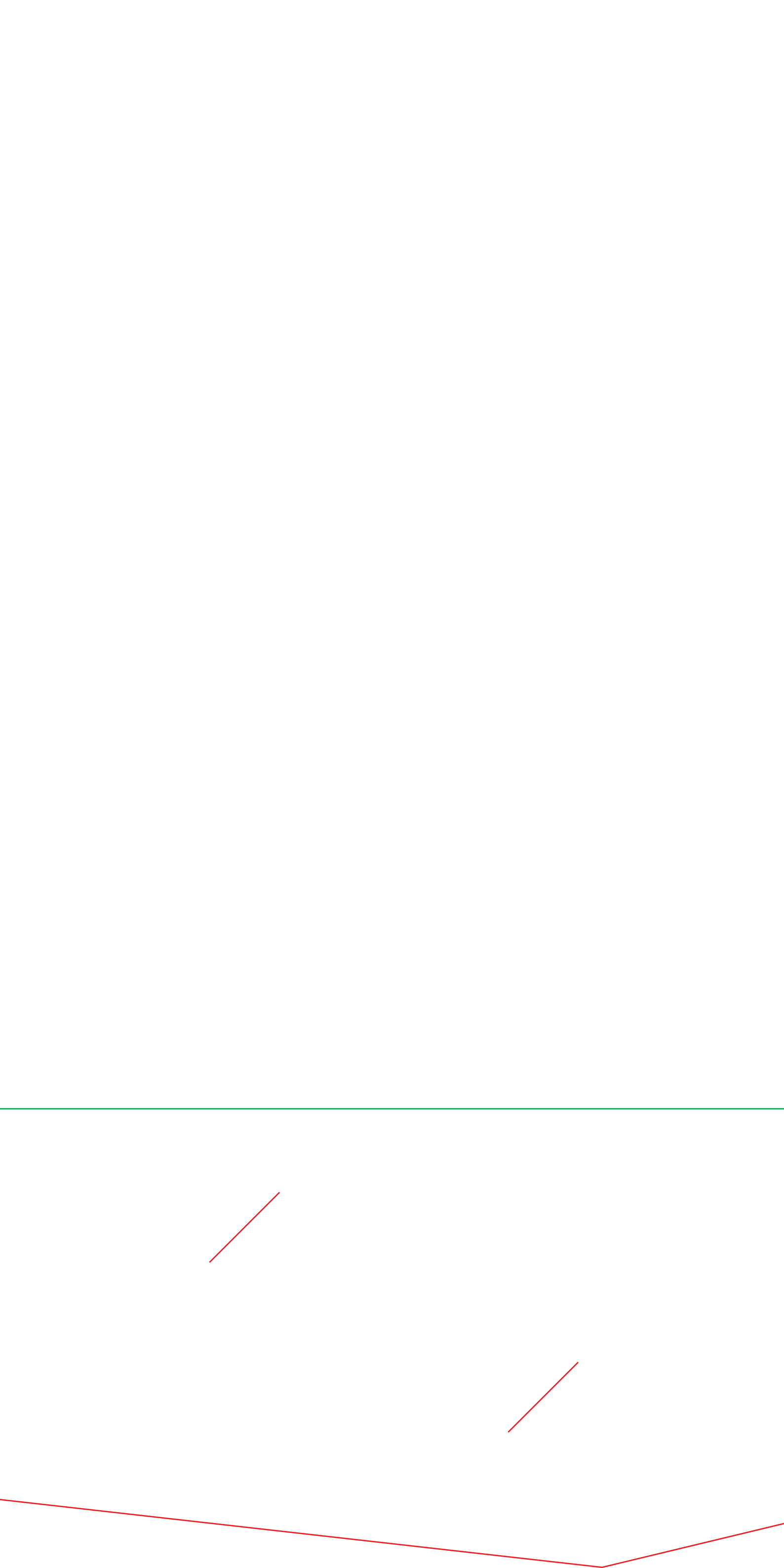
## PROCESSING

For the processing of our products please refer to the processing instructions available at [www.unilininsulation.com](http://www.unilininsulation.com). They are also available at Customer Service.



# NOTES

A large grid of dashed lines for taking notes, consisting of 20 columns and 30 rows of small squares.



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January 2023

Information contained in this data sheet is up-to-date and correct as at the date of issue. Please check [www.unilininsulation.com](http://www.unilininsulation.com) for the latest information. As Unilin cannot control or anticipate the conditions under which this product may be used, each user should review the information in the specific context of the planned use. To the maximum extent permitted by law, Unilin will not be responsible for damages of any nature resulting from the use or reliance upon the information contained in this datasheet. No express or implied warranties are given in this data sheet, including but not limited to a warranty of merchantability or fitness for a particular purpose.