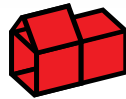




A SOLUTION FOR EVERY APPLICATION
AN IKO ENERTHERM BOARD FOR EVERY SOLUTION



 **IKO** enertherm[®]
INSULATION



IKO enertherm, high-performance insulation systems

- 3** IKO Insulations
- 4-5** Contributing to a sustainable world
- 6-7** Micro Cell Technology
- 8-9** Insulation choice matrix
- 10-23** Insulation systems
- 24-30** Insulation boards
- 31-35** Accessories



NEW
DOWNLOAD
the IKO enertherm **APP**



Performance is pushing limits



IKO Insulations

IKO Insulations develops, manufactures and distributes innovative PIR (polyisocyanurate)-based insulation products under the IKO enertherm brand name.

The demand for high-performance insulation products for the construction industry is growing all the time. To meet this demand, IKO Insulations is constantly investing in Research & Development, a necessity if it is to make products that keep pushing limits in terms of energy performance and insulation value.

Producing a high-quality, cutting-edge products requires a careful balancing act in which materials, form, properties and technology are faultlessly matched to each other according to the final application. This is what sets IKO Insulations apart.

IKO enertherm and top-flight sports

Pushing back the boundaries of insulation values and energy conservation and combining all these factors contributing to top performance is similar to elite athletes.

Elite sportspeople are also constantly pushing back the limits of their own ability: a better time, greater fitness, more goals, better technique, etc. They achieve their top performances not only by training hard, but also through a combination of factors (diet, mental focus, equipment, etc).

IKO enertherm strives for the total utilisation of all its resources, just like elite athletes do!





Contributing to a sustainable world



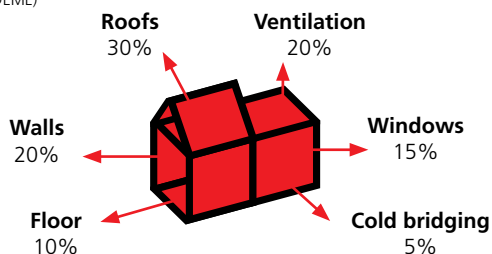


Good insulation and reduction of energy consumption

High-performance insulation for homes, offices and other buildings is the most immediate and efficient solution for making savings in energy consumption. Lower energy consumption means lower CO₂ emissions, which are responsible for global warming. Good insulation makes a positive contribution to the environment.

Energy loss from an uninsulated house

(source ADEME)



Sustainable insulation

Thanks to their special properties (moisture and mould resistance, dimensional stability), IKO enertherm insulation boards have a very long service life, while retaining all their energy performance.

Environmentally sound production

Renewable raw materials

The use of renewable raw materials is significant. PET bottles, for example, are recycled and used in the PIR insulation production process.

No waste

In the IKO enertherm insulation production process, the cutting and sawing of waste is processed into briquettes, which are used as additives in concrete.

Spread of production sites

The IKO Insulations growth strategy includes the geographical spread of production sites. The shortened transport distances contribute to a significant improvement in the ecological footprint.



IKO enertherm ALU carries DUBOkeur® quality label

The DUBOkeur® is awarded by the Netherlands Institute for Building Biology and Ecology (NIBE). This is an advice and research agency in the field of healthy and sustainable building, and is a leader in the field of building material certification. The DUBOkeur® proves that IKO enertherm ALU is one of the most environmentally-friendly choices.



Opting for IKO enertherm

Lambda
22



Thermal efficiency insulation value:

IKO enertherm PIR insulation boards with ALU and ALU KR lamination have a lambda value of 0.022W/(m.K). In practical terms this means that insulation standards can be met using a thinner insulation board, when compared to other insulation materials.



Top quality mult-layer lamination:

IKO enertherm ALU insulation is finished on both sides with a 7 layer, single complex ALU lamination layer. The lamination is tested under extreme conditions with respect to water absorption, mechanical properties, corrosion resistance, emissivity, etc.



Fire resistant:

IKO enertherm has class E fire resistance in accordance with EN-13501-1. The insulation plate has a low to zero smoke emission rate and does not melt or drip. This fire performance is an inherent part of the foam's cell structure.

MCT

MICRO CELL TECHNOLOGY

With an optimum formulation of raw materials and production parameters, IKO enertherm has an exceptionally fine cell structure: **Micro Cell Technology**. This MCT gives IKO enertherm these unique characteristics:

Shape retention

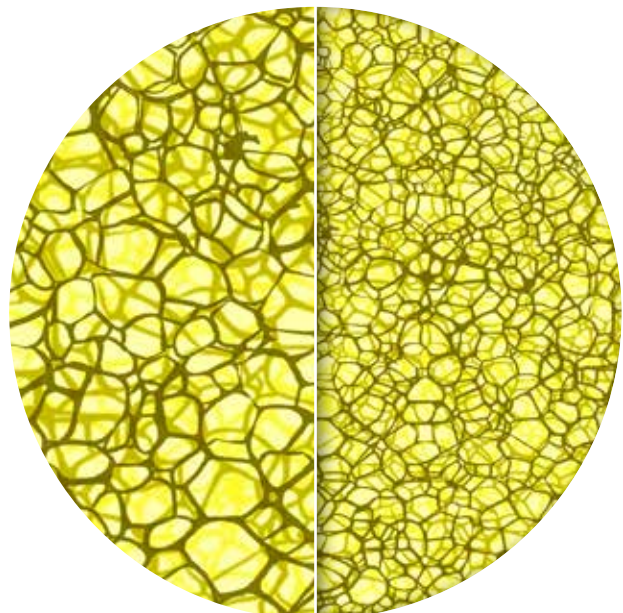
IKO enertherm insulation boards retain their shape and dimensional stability longer than PIR boards with coarser foam and boards that don't shrink. Cold bridging is prevented and a longer service life without loss of insulating properties.

Moisture resistant

MCT has a very low long-term water absorption rate (< 0.6%) compared to other insulation materials. Increased weight as a result of water absorption is eliminated, the boards are rot and mould proof and the insulation value is retained.

Pressure insulation

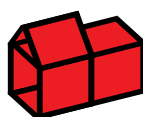
IKO enertherm insulation boards have a high level of elasticity. MCT ensures exceptional pressure resistance, meaning the cells are flexible and don't rupture. The insulation boards can also be walked on without leaving indentations.












Celstructure
PUR/PIR standard

Celstructure
IKO MCT


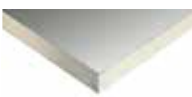
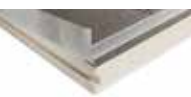


A solution for every application



-  **IKO enertherm rooftop:** flat roof insulation
-  **IKO enertherm sarking:** pitched roof insulation
-  **IKO enertherm comfort:** loft insulation
-  **IKO enertherm comfort easy:** loft floor insulation
-  **IKO enertherm interior:** inside wall insulation
-  **IKO enertherm wall:** cavity wall insulation
-  **IKO enertherm wrap:** cladding - rainscreen systems
-  **IKO enertherm floor:** floor insulation
-  **IKO enertherm base:** basement insulation

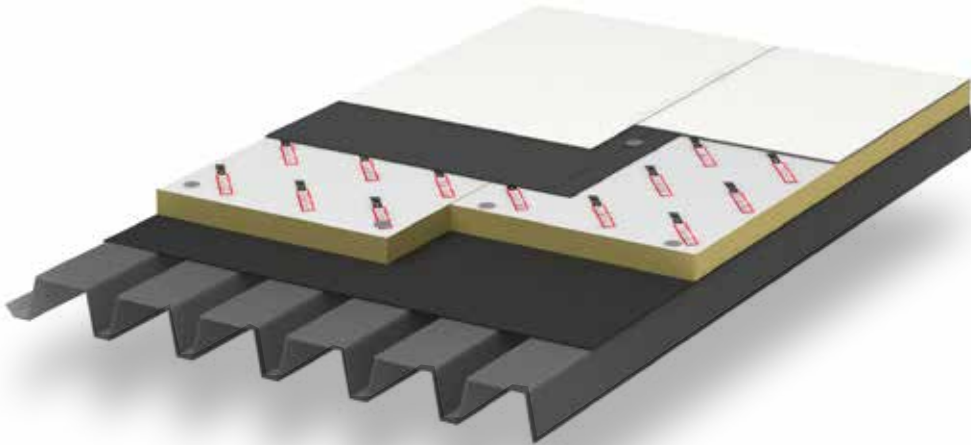


An IKO enertherm board for every solution

INSULATION BOARD	ALU	ALU NF	ALU NF PRO	ALU 50	BGF
					
FLAT ROOFS	■				■
PITCHED ROOFS EXTERIOR		■	■		
PITCHED ROOFS INTERIOR	■				
LOFT FLOOR	■				
INSIDE WALL					
CAVITY WALL	■				
CLADDING	■			■	
FLOORS	■				
BASEMENTS	■			■	
Product information on page ▶	24	24	27	27	25



BM	MG	KR ALU	GYPSUM	LEVEL	SYSTEM	
						System information on page
■	■				ROOFTOP	10-11
					SARKING / SARKING PRO	12-13
					COMFORT	14
					COMFORT EASY	15
			■		INTERIOR	17
				■	WALL	18-19
					WRAP	20
		■			FLOOR	21
					BASE	22
25	26	28	28	29		



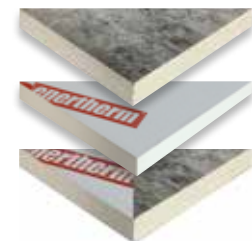
IKO ENERTHERM ALU / BGF / MG / ALU TAP / BM
FLAT ROOF INSULATION 



IKO enertherm is used for the thermal insulation of flat roofs.

BENEFITS:

- Lightweight boards and therefore easier to handle.
- Less volume for the same insulation value.
- Fit for walking on during the work and after.
- Can be installed quickly and easily.
- High dimensional stability and compressive strength.



ACCESSORIES - SEE PAGES 31

IKOPRO PU GLUE - IKOPRO FIX GUN - IKOPRO GUN - IKOPRO GUN CLEANER - IKOFIX COMBI-S - ALU TAPE

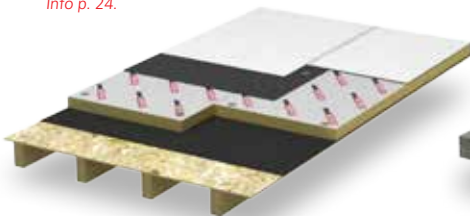
FLAT ROOF INSULATION



IKO ENERTHERM ALU

IKO enertherm ALU is used for the insulation of flat roofs for **new construction** or **refurbishment projects** on **concrete**, **steel deck** and timber substrate.

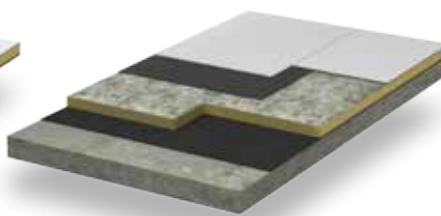
Info p. 24.



IKO ENERTHERM BGF

IKO enertherm BGF is used for the insulation of flat roofs, with **torch-on bituminous** and **single-ply waterproof membranes**.

Info p. 25.



IKO ENERTHERM BM

IKO enertherm BM can be used for torch-on **bituminous membrane** sections or **mastic asphalt systems**: bituminised sand and talc free glass fibre to be applied facing upwards - or can be used with **synthetic roof** sections: perforated coated glass fibre to be applied facing upwards.

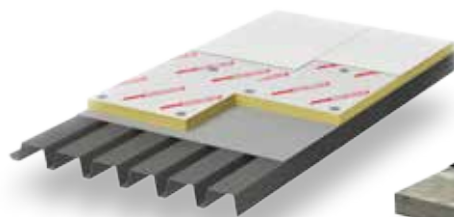
Info p. 25.



IKO ENERTHERM MG

IKO enertherm MG is used for the insulation of flat roofs in conjunction with **single-ply** and **bituminous waterproof membranes**.

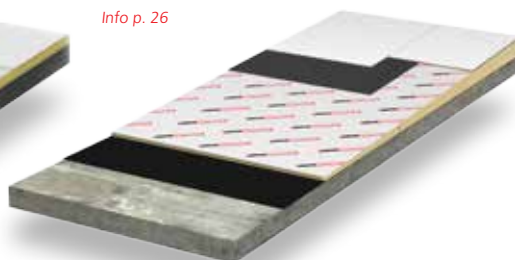
Info p. 26.



IKO ENERTHERM ALU TAP

IKO enertherm ALU TAP is used for the insulation of flat roofs with **bituminous** and **single-ply waterproof membranes**. IKO enertherm ALU TAP provides a perfect drainage to the pipes on flat roofs with for timber, concrete or steel deck support.

Info p. 26





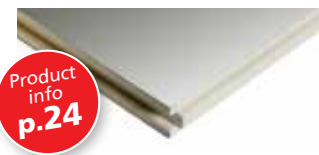
IKO ENERTHERM ALU NF PITCHED ROOF INSULATION



IKO enertherm is used for the thermal insulation of pitched roofs.

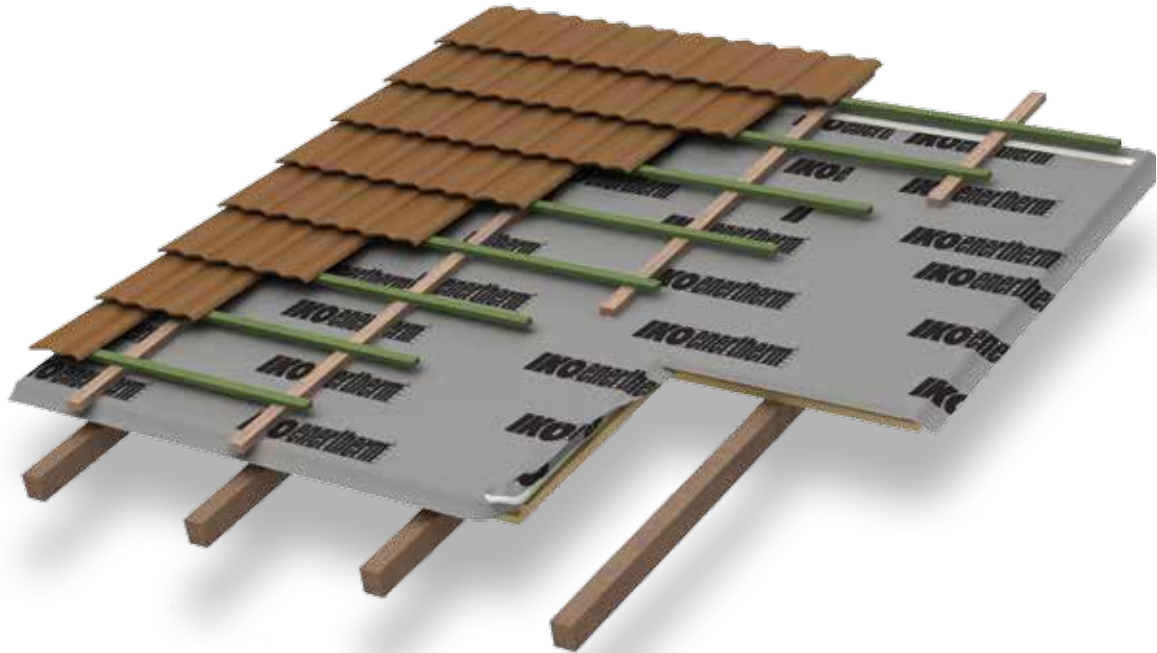
BENEFITS:

- Insulation shield on the trusses without breaks.
- Interior finish retained with no loss of volume.
- Tongue and groove edge provides for a windproof and thermal shield without cold bridging.
- Approx. 60 % thinner than mineral wool between the rafters.
- Very low loading of the roof structure.



ACCESSORIES - SEE PAGES 31

ALU TAPE - IKO POLYVENT - ULTRA TAPE - IKOFIX ASSY AW40 - IKOPRO FIX GUN - IKOPRO GUN - IKOPRO GUN CLEANER



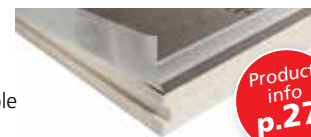
IKO ENERTHERM ALU NF PRO PITCHED ROOF INSULATION WITH UNDERTILE FELT



IKO enertherm is used for the thermal insulation of pitched roofs on the rafters or on the trusses.

BENEFITS:

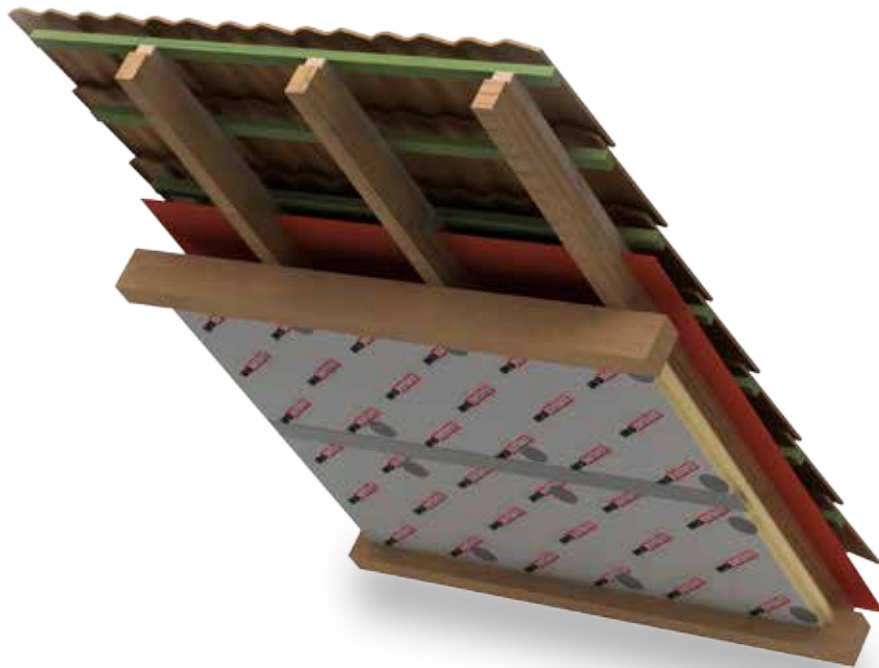
- Insulation shield on the trusses without breaks.
- The IKO enertherm ALU NF PRO board comes with integrated vapour-permeable undertile felt.
- Integrated vapour-permeable undertile felt provided with a double adhesive strip.
- Interior finish retained with no loss of volume.
- Windproof in one operation.
- Very low loading of the roof structure.
- Very easy installation without breaks.



Product
info
p.27

ACCESSORIES - SEE PAGES 31

ALU TAPE - ULTRA TAPE - IKOFIX ASSY AW40 - IKOPRO FIX GUN - IKOPRO GUN - IKOPRO GUN CLEANER



IKO ENERTHERM ALU TG LOFT INSULATION



IKO enertherm comfort is the perfect loft insulation solution.

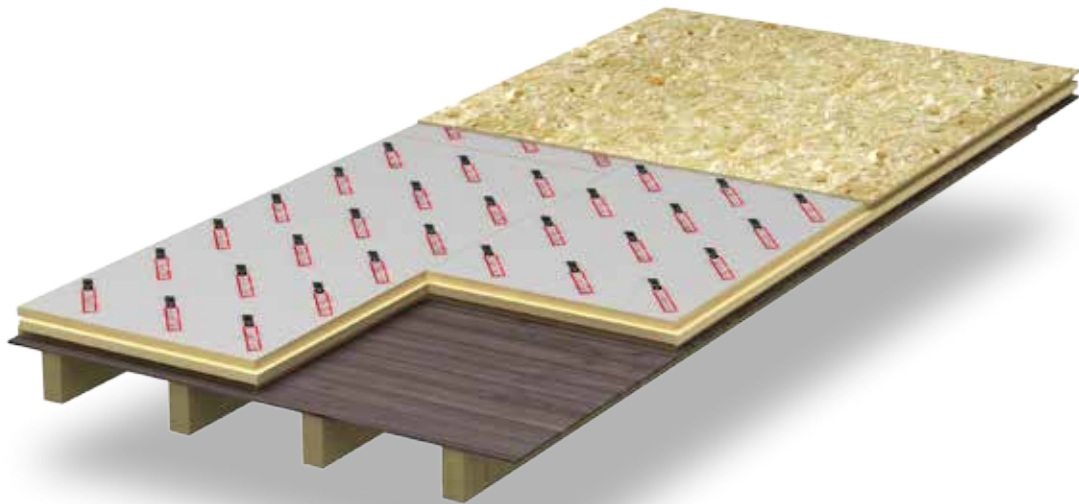
BENEFITS:

- No additional vapour screen needed thanks to closed cell structure of the board and seams taped.
- Various finishes possible: plasterboard, laths, etc.
- Very quick installation, convenient size and light weight.
- Moisture-insensitive and non-deformable.
- Thinner alternative to traditional loft insulation materials.



ACCESSORIES - SEE PAGES 31

IKOPRO FIX GUN - IKOPRO GUN - IKOPRO GUN CLEANER - IKOFIX COMBI-S - ALU TAPE



IKO ENERTHERM ALU TG LOFT FLOOR INSULATION



IKO enertherm ALU TG is used for the insulation of the loft floor.

BENEFITS:

- Fast and reliable insulation solution.
- No structural works.
- Inexpensive system.
- Loose installation in combination with OSB boards.
- Tongue and groove connection.







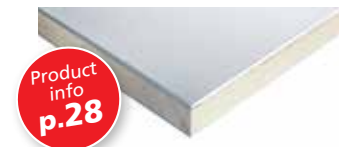
IKO ENERTHERM GYPSUM INSIDE WALL INSULATION



IKO enertherm is used to thermally insulate interior walls.

ADVANTAGES:

- Interior wall insulation with plasterboard surface finish.
- Large-size insulation plates for speedy fitting.
- Space-saving renovation system.
- Built-in damp screen.
- Plasterboard with bevelled edges for a smooth finish.
- Renovation system with various fixation options: wooden slats, adhesive plaster, IKO pro PU Fix Gun.



ACCESSORIES - SEE PAGES 31

IKOFIX AD - IKOFIX GYPSUM - IKOPRO FIX GUN - IKOPRO GUN - IKOPRO GUN CLEANER



IKO ENERTHERM ALU TG CAVITY WALL INSULATION



IKO enertherm is used for the thermal insulation of cavity walls.

BENEFITS:

- The dimensional stability of the boards guarantees one unbroken insulation shield.
- The outstanding thermal performance of IKO enertherm means that one thin layer of insulation board in the cavity is enough, depending on the construction of the building.
- Quick and easy to cut and install.
- The tongue and groove connection avoids thermal bridging and ingress of water.
- The lightweight board facilitates transport and installation.
- The ALU cladding is corrosion-resistant.
- Fibre-free board, so no irritation.



ACCESSORIES - SEE PAGES 31

IKO FLEXPLUG - IKO PERFOPLUG - IKO TAP TOOL - IKOFIX FLEX ANCHOR - IKOFIX PERFO ANCHOR
IKO PERFO TOOL - IKO FLEX TOOL - IKO PRO FIX - ALU TAPE - IKOPRO FIX GUN - IKOPRO GUN CLEANER - IKO PRO GUN



IKO ENERTHERM ALU LEVEL CAVITY WALL INSULATION



IKO enertherm is used to thermally insulate cavity walls.

ADVANTAGES:

- PIR insulation boards with mineral wool glued on one side.
- The mineral wool ensures a level connection on an uneven substrate.
- The tongue and groove connection prevents thermal bridges and infiltration.



ACCESSORIES - SEE PAGES 31

IKO FLEXPLUG - IKO PERFOPLUG - IKO TAP TOOL - IKOFIX FLEX ANCHOR - IKOFIX PERFO ANCHOR
IKO PERFO TOOL - IKO FLEX TOOL - IKO PRO FIX - ALU TAPE - IKOPRO FIX GUN - IKOPRO GUN CLEANER - IKO PRO GUN



IKO ENERTHERM ALU / ALU 50 OUTSIDE WALL INSULATION



IKO enertherm is the solution for the insulation of outside walls.

BENEFITS:

- Interior finish of the home is retained.
- Various decorative finishes possible: timber, zinc, etc.
- Nearly 40 % thinner than mineral wool, XPS or EPS with the same R value.
- Wind and moisture-proof insulation shield.
- Can be cut and installed quickly and easily.
- The ALU cladding is corrosion-resistant.

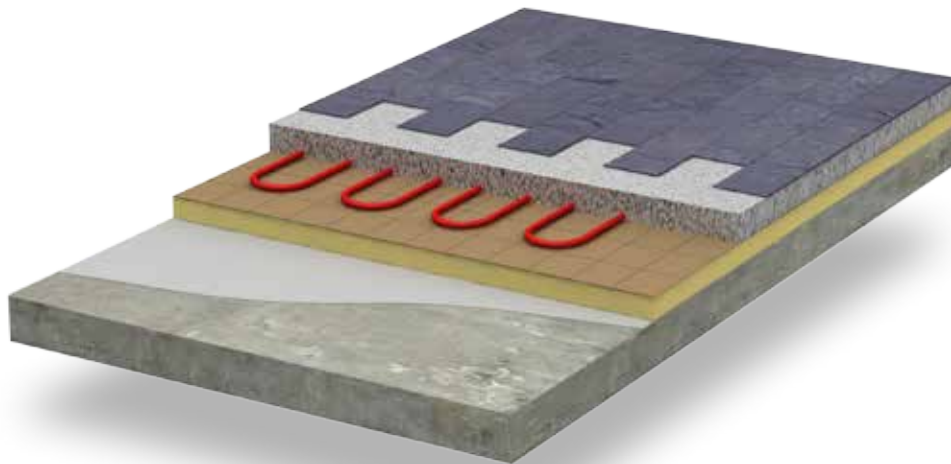
Product
info
p.24

Product
info
p.27



ACCESSORIES - SEE PAGES 31

ALU TAPE - IKOPRO FIX GUN - IKOPRO GUN - IKOPRO GUN CLEANER - IKOFIX PLASTISOL
IKOFIX FAST ANCHOR - IKOFIX EPDM BAND



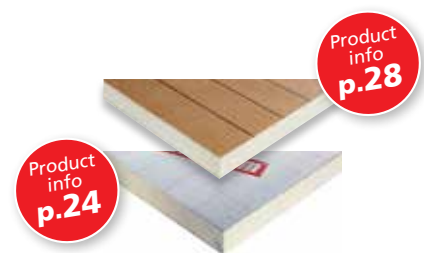
IKO ENERTHERM KR ALU / ALU FLOOR INSULATION



IKO enertherm is used for the thermal insulation of floors.

BENEFITS:

- Exceptional dimensional and compressive stability.
- Grid reference for underfloor heating installation.
- Moisture-insensitive and rot-proof.
- Very light and all convenient size.
- Easy to process installation.
- High chemical resistance.
- Cast floor without applying a separating layer.



ACCESSORIES - SEE PAGES 31

ALU TAPE - IKO XPE BAND - IKOPRO FIX GUN - IKOPRO GUN - IKOPRO GUN CLEANER - IKO TACKER - IKOFIX AGRAFES



IKO ENERTHERM ALU 50 TG
BASEMENT INSULATION



IKO enertherm is used for the insulation of underground spaces and basements.

BENEFITS:

- Lightweight board for easy installation.
- Install the tongue and groove system for seamless connection.
- Fast installation.
- Install using concrete screws and cover plates.
- The aluminium cladding can be painted.



ACCESSORIES - SEE PAGES 31

IKOFIX EDGING PRO - IKOFIX CLAW - IKO T-JOINT PRO - IKOPRO FIX GUN - IKOPRO GUN - ALU TAPE



IKO enertherm ALU / ALU NF

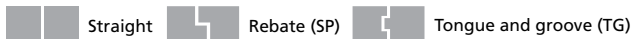
Product description:

IKO enertherm ALU is a 100 % CFC, HCFC or HFC-free insulation board with a rigid polyisocyanurate foam core, clad on both sides with a multi-layer gastight aluminium complex. This high-quality reflecting ALU cladding consists of no fewer than seven layers, combined into a single complex. It is tested under extreme conditions in respect of water absorption, mechanical properties, corrosion resistance and emissivity.

Range of applications:

- Roof top:** flat roof insulation for timber, concrete and steel deck.
- Sarking:** pitched roof insulation (type nF with neutral felt).
- Floor:** floor insulation (underfloor heating and concrete floors).
- Wall:** cavity wall insulation.
- Wrap:** outside wall insulation (closed joints).
- Comfort:** loft insulation.
- Comfort easy:** loft floor insulation

Edge finish:



Thermal performance:

Thermal conduction coefficient: (EN 13165) λ_D : 0,022 W/(m.K)



Technical details:

- Bulk density: $\pm 32 \text{ kg/m}^3$
- Compressive strength at 10% deformation: 175kPa (17.5ton/m²)
- Behaviour under uniformly distributed loading: Class C ($\leq 5\%$ deformation at 80°C and 40kPa loading)
- Closed cells: more than 95%
- Water vapour diffusion: PIR foam: $\mu = 60$ - ALU facing $\mu > 100,000$
- Moisture insensitivity class 1 : (<1%)

Fire properties:

- Fire class according to EN 13501-1: **Class E**
- Fire class 'end use' according to 13501-1: **B-s2,d0** (steeldeck)
- Fire class according to KB 19/12/1997: **A1** (Belgium)

IKO enertherm ALU (mm)	R _D -value (m ² .K/W)													
	30	40	50	60	70	80	90	100	110	120	140	160	180	200
1200 x 600	1,35	1,80	2,25	2,70	3,15	3,60	4,05	4,55	-	5,45	6,35	7,25	8,15	9,05
1200 x 600 TG	-	1,80	2,25	2,70	3,15	3,60	4,05	4,55	-	5,45	6,35	7,25	-	-
1200 x 600 SP	-	-	-	2,70	-	3,60	-	4,55	-	5,45	6,35	-	-	-
1200 x 1000	1,35	1,80	2,25	2,70	3,15	3,60	4,05	4,55	-	5,45	6,35	-	-	-
2400 x 1200	1,35	1,80	2,25	2,70	3,15	3,60	4,05	4,55	5,00	5,45	6,35	-	-	-
2400 x 1200 SP	1,35	1,80	2,25	2,70	3,15	3,60	4,05	4,55	5,00	5,45	6,35	7,25	8,15	9,05

IKO enertherm ALU NF (mm)	R _D -value (m ² .K/W)				
	81	100	120	132	160
1200 x 2400	3,65	4,55	5,45	6,00	7,25

IKO enertherm BGF

Product description:

IKO enertherm BGF is a 100 % CFC, HCFC or HFC-free insulation board with a rigid polyisocyanurate foam core, clad on both sides with a polypropylene-covered bitumen sand and tallow-free glass membrane.

Range of applications:

Rooftop: flat roof insulation

Edge finish:

Straight

Thermal performance:

Thermal conduction coefficient:
(EN 13165) λ_D : 0,027 W/(m.K) until 120 mm, 0,026 W/(m.K) from 120 mm

IKO enertherm BGF (mm)	R _D -value (m ² .KW)			
	81	100	120	140
1200 x 1000	3,00	3,70	4,60	5,35



Technical details:

- Bulk density: $\pm 32\text{kg/m}^3$
- Compressive strength at 10% deformation: $\geq 150\text{kPa}$ (15ton/m²)
- Behaviour under uniformly distributed loading: Class C ($\leq 5\%$ deformation at 80°C and 40kPa loading)
- Closed cells: more than 95%
- Water vapour diffusion resistance: PIR foam: $\mu = 60$ - lamination: $\mu > 100$

Fire properties:

- Fire class according to EN 13501-1: **Class F**

IKO enertherm BM

Product description:

IKO enertherm BM is a 100% CFC, HCFC or HFC-free insulation board with a core of rigid polyisocyanurate foam, laminated on one side with polypropylene coated bituminised sand and talc free glass fibre and on the other side with perforated coated glass fibre.

To install with torch-on bituminous membrane sections or mastic asphalt systems: bituminized sand and talc free glass fibre to be applied facing upwards. To install to synthetic roof sections: perforated coated glass fibre to be applied facing upwards.

Range of applications:

Rooftop: flat roof insulation for use with torch-on bituminous membrane sections and mastic asphalt systems.

Edge finish:

Straight

IKO enertherm BM (mm)	R _D -waarde (m ² .KW)						
	30	40	50	60	70	81	100
1200 x 600	1,10	1,45	1,85	2,20	2,55	3,00	3,70



Thermal performance:

Thermal conductivity: (EN 13165) λ_D : 0.027W/(m.K) until 120mm and 0.026W/(m.K) from 120mm

Technical details:

- Compressive strength at 10% deformation: 150kPa (15ton/m²)
- Behaviour under uniformly distributed loading: Class C ($\leq 5\%$ deformation at 80°C and 40kPa loading)
- Closed cells: more than 95%
- Water vapour diffusion: PIR foam: $\mu = 60$ - lamination: $\mu > 100$

IKO enertherm ALU TAP

Product description:

IKO enertherm ALU is a 100 % CFC, HCFC or HFC-free insulation board with a rigid polyisocyanurate foam core, clad on both sides with a multi-layer gastight aluminium complex. This high-quality reflecting ALU cladding consists of no fewer than seven layers, combined into a single complex. It is tested under extreme conditions in respect of water absorption, mechanical properties, corrosion resistance and emissivity.

Application:

Rooftop: IKO enertherm ALU TAP provides a perfect drainage to the pipes on flat roofs with for timber, concrete or steel deck support.

Edge finish:

Straight

Thermal performance:

Thermal conduction coefficient: (EN 13165) λ_D : 0,023 W/(m.K)

ALU TAP (1200 x 1200 mm)	Thickness (mm)									
1/120 (0,83%)	30 - 40	40 - 50	50 - 60	60 - 70	70 - 80	80 - 90	90 - 100	100 - 110	110 - 120	
1/80 (1,25%)	30 - 45	45 - 60	60 - 75	75 - 90	90 - 105	105 - 120				
1/60 (1,67%)	40 - 60	60 - 80	80 - 100	100 - 120						



Technical details:

- Bulk density: $\pm 32 \text{ kg/m}^3$
- Compressive strength at 10% deformation: 175 kPa (17,5 ton/m²)
- Behaviour under uniformly distributed loading: class C ($\leq 5 \%$ deformation at 80 °C and 40 kPa loading)
- Closed cells: more than 95%
- Water vapour diffusion: PIR foam: $\mu = 60$ - ALU facing: $\mu > 100,000$
- Existing gradients - 1/20ème, 0,83% - 1/80ème, 1,25% - 1/60ème, 1,67%

Fire properties:

- Fire class according to EN 13501-1: **Class F**

IKO enertherm MG

Product description:

IKO enertherm MG is a 100 % CFC, HCFC or HFC-free insulation board with a rigid polyisocyanurate foam core, clad on both sides with a perforated coated glass membrane.

Range of applications:

Rooftop: flat roof insulation in combination with plastic membranes

Edge finish:

Straight Rebate (SP)

Thermal performance:

Thermal conduction coefficient: (EN 13165) λ_D : 0,027 W/(m.K) until 120 mm and 0,026 W/(m.K) from 120 mm.

IKO enertherm MG (mm)	RD-value (m ² .K/W)										
	30	40	50	60	70	81	90	100	120	140	
1200 x 600	1,05	1,40	-	2,10	-	3,00	-	3,70	-	-	
1200 x 600 SP	-	-	1,75	2,10	-	3,00	-	3,70	4,60	5,35	
1200 x 1000	1,05	1,40	1,75	2,10	2,50	3,00	3,30	3,70	4,60	5,35	
2400 x 1200	-	1,40	1,75	-	2,50	3,00	-	3,70	4,60	-	



Technical details:

- Bulk density: $\pm 32 \text{ kg/m}^3$
- Compressive strength at 10% deformation: 150 kPa (15 ton/m²)
- Behaviour under uniformly distributed loading: class C ($\leq 5 \%$ deformation at 80 °C and 40 kPa loading)
- Closed cells: more than 95%
- Water vapour diffusion: PIR foam: $\mu = 60$ - lamination: $\mu > 10$

Fire properties:

- Fire class according to EN 13501-1: **Class E**

IKO enertherm ALU NF PRO

Product description:

IKO enertherm ALU is a 100 % CFC, HCFC or HFC-free insulation board with a rigid polyisocyanurate foam core, clad on both sides with a multi-layer gastight aluminium complex complete with an integrated vapour-permeable undertile felt.

Range of applications:

Sarking PRO: pitched roof insulation

Edge finish:



Tand en groef (TG)

Thermal performance:

Thermal conduction coefficient: (EN 13165) λ_D : 0,022 W/(m.K)

IKO enertherm ALU NF PRO (mm)	R _D -value (m ² .K/W)					
	80	100	120	132	160	
2400 x 1200 TG	3,60	4,55	5,45	6,00	7,25	



Lambda
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Technical details:

- Bulk density: ± 32 kg/m³
- Closed cells: more than 95%
- Water vapour resistance: PIR foam: $\mu = 60$ - ALU facing: $\mu > 100.000$

Technical data undertile felt:

- Weight: **140gr/m²**
- Reaction to fire according to EN 13501-1: **Class E**
- Sd-value: **0,02 m**

Fire properties:

- Fire class according to EN 13501-1: **Class E**
- Reaction to fire according to KB 19/12/1997: **A1 (Belgium)**

IKO enertherm ALU 50

Product description:

IKO enertherm ALU 50 is a 100 % CFC, HCFC or HFC-free insulation board with a rigid polyisocyanurate foam core, clad on both sides with a 50 μ m unmarked gastight aluminium layer.

Range of applications:

Wrap: outside wall insulation

Sarking: pitched roof insulation

Base: basement insulation

Edge finish:



Tongue and groove (TG)

Thermal performance:

Thermal conduction coefficient: (EN 13165) λ_D : 0,022 W/(m.K)

IKO enertherm ALU 50 (mm)	R _D -value (m ² .K/W)					
	60	70	85	100	120	140
1200 x 1000 TG	2,70	3,15	3,85	4,55	5,45	6,35



Lambda
22

Technical details:

- Bulk density: ± 32 kg/m³
- Compressive strength at 10 % deformation: ≥ 150 kPa (15 ton/m²)
- Closed cells: more than 95%
- Water vapour diffusion resistance:
PIR foam: $\mu = 60$ - ALU lamination: $\mu > 100.000$

Brandeigenschappen:

- Reaction to fire according to EN 13501-1: **Class D-s2, d0**
- Reaction to fire "end use" according to EN 13501-1: **Class B-s1, d0**
- Reaction to fire according to KB 19/12/1997: **A1 (Belgium)**

IKO enertherm GYPSUM

Product description:

IKO enertherm GYPSUM is a 100 % CFC, HCFC and HFC-free insulation board with a core in hard polyisocyanurate foam, coated on both sides with a multilayer gastight complex, and fitted on one side with an ABA gypsum board with a thickness of 9.5 mm.

Application:

Interior: interior walls when renovating.

Edge finish:



Straight

Thermal performance:

Thermal conduction coefficient: (EN 13165) λ_D : 0,022 W/(m.K)

Thickness mm / insulation Thickness mm / gypsum	R _D -value (m ² .K/W)								
	25	30	40	50	60	80	100	120	
2600 x 1200	1,17	1,40	1,85	2,31	2,76	3,76	4,58	5,49	



Lambda
22

Technical details:

- Bulk density: ± 32 kg/m³
- Bulk density gypsum board: $\pm 6,8$ kg/m³
- Compressive strength at 10% deformation: 150 kPa (15 ton/m²)
- Closed cells: more than 95%
- Water vapour diffusion: PIR foam: $\mu = 60$ - ALU facing:
 $\mu > 100,000$

Fire properties:

- Fire class according to EN 13501-1: **Class F**

IKO enertherm KR ALU

Product description:

IKO enertherm ALU is a 100 % CFC, HCFC or HFC-free insulation board with a rigid polyisocyanurate foam core, clad on both sides with a multi-layer gastight aluminium complex.

Range of applications:

Floor: floor insulation (underfloor heating and concrete floors)

Edge finish:



Straight

Thermal performance:

Warmtegeleidingscoëfficiënt: (EN 13165) λ_D : 0,022 W/(m.K)

IKO enertherm KR ALU (mm)	R _D -value (m ² .K/W)								
	40	60	80	100	120	140	160*	180*	200*
2400 x 1200	1,80	2,70	3,60	4,50	5,45	6,35	7,25	8,15	9,05

Lambda
22



Technical details:

- Bulk density: ± 32 kg/m³
- Compressive strength at 10% deformation: 15 kPa (15 ton/m²)
- Closed cells: more than 95%
- Water vapour diffusion: PIR foam: $\mu = 60$ - ALU facing:
 $\mu > 100,000$
- Moisture insensitivity class 1 : (<1%)

Fire properties:

- Fire class according to EN 13501-1: **Class F**

* on demand

IKO enertherm LEVEL

Product description:

IKO enertherm ALU LEVEL is an insulation board that is 100% free from CFC, HCFC and HFC, with a rigid polyisocyanurate foam core, clad on both sides with a multilayer gastight aluminium complex. To prevent any unevenness between the inner cavity sheet and the insulation board, IKO enertherm ALU LEVEL is finished on the inner cavity sheet with 25 mm of mineral wool with a glass fibre top coat.

Application:

Wall: cavity wall insulation.

Edge finish:



Tongue and groove

Thermal performance:

Thermal conduction coefficient: (EN 13165) λ_D : 0,022 W/(m.K)

	R _D -value (m ² .K/W)				
Thickness mm / insulation	60	80	100	120	140
Thickness mm/ mineral wool	25	25	25	25	25
1200 x 600	3,38	4,29	5,20	6,11	7,02



Lambda
22

Technical details:

- Bulk density: $\pm 32 \text{ kg/m}^3$
- Compressive strength at 10% deformation: 175 kPa (17,5 ton/m²)
- Behaviour under uniformly distributed loading: class C ($\leq 5 \%$ deformation at 80 °C and 40 kPa loading)
- Closed cells: more than 95%
- Water vapour diffusion: PIR foam: $\mu = 60$ - ALU facing: $\mu > 100,000$
- Moisture resistance : WLT class 1 (<1%)

Fire properties:

- Reaction to fire according to EN 13501-1: **Class E**
- Reaction to fire "end use" according to EN 13501-1: **Class B-s1, d0**
- Reaction to fire according to KB 19/12/1997: **A1 (Belgium)**





Accessories for every application



Accessories general

IKOPRO FIX GUN

Blue immediate expansion polyurethane foam to bond and seal insulation boards.

Consumption: up to 12 m² of insulation per can.

Packaging: 750 ml aerosol spray to be used in combination with the IKOpro gun.

Article no.: 02401485

IKOPRO GUN

The IKOpro Gun is a professional gun made entirely of metal components, which makes it easy to adapt the flow of the PU foam.

Lengths 30, 60 and 100 cm.

Article no.: 05340360 - 05340362 - 05340364

IKOPRO GUN CLEANER

Ready-to-use cleaning agent to remove non-hardened PU foam and adhesive from any type of substrate. 500 ml.

Article no.: 02401495

ALU TAPE

Alu tape is used to tape seams between insulation boards in applications requiring a high degree of airtightness.

Consumption: 1,5 m /m².

Packaging: 45 m x 50 mm, 24 rolls/box.

Article no.: 30045540



Flat roof insulation

IKOPRO PU GLUE

Permanently elastic, single component moisture curing polyurethane adhesive. Used to bond insulation boards and bituminous moisture barrier layers. Strong adhesive properties to create good bond between substrate and insulation boards.

Consumption: approx. 5 m²/kg or 0.2 kg/m².

Packaging: 6.5 kg can with pouring spout.

Article no.: 02401460

IKOFIX COMBI-S

Combination pack with screws and distribution plates to fix insulation to a wooden or steel deck.

Packaging: 250 pieces.

Article no.: 30042390 to 3004250



Pitched roof insulation (Sarking)

ULTRA TAPE



To make, for example, valley gutters and edges gas and water tight.

Available in 10 m lengths and widths of 5, 25 and 30 cm.

Article no.: 30045750 - 30045760 – 30045770.

IKO POLYVENT



Waterproof roof membrane to make sarking roofs windproof. Polyvent roof membrane is vapour permeable and evacuates moisture from the roof space. Sd value <math><0.02\text{ m}</math>. 50m x 1.5m.

Article no.: 33010041

IKOFIX ASSY AW40



Screws used to attach insulation to a pitched roof.

Screw diameter: 8 mm

Available for insulation thicknesses between 60 and 160 mm.

Packaging: 25 pieces.

Article no.: 30464160 to 30464340



Loft insulation

IKOFIX COMBI-S



Combination pack with screws and distribution plate to fix insulation to a wooden or steel deck.

Packaging: 250 pieces.

Article no.: 30042390 tot 30042500.



IKOFIX EDGING PRO



Two-part synthetic profile used to mount insulation boards onto the substrate. Universally applicable for all thicknesses and types of insulation boards. Soft PVC on the sides of edge profile creates a complete seal between the wall and board.

Article no.: 30468961 - 2400 mm

IKOFIX CLAW



Metal claw shaped fixing bracket to mount insulation boards onto the substrate. This prevents thermal bridges in the structure.

Attractive end result: the IKOFIX CLAW is invisible.

Article no.: 30468901 - DVK15 - 150 pieces.

30468902 - DVK25 - 100 pieces.



IKO T-JOINT PRO



Synthetic T profile to seal the edges between insulation boards. The T profile is equipped with a soft PVC spring to create an optimum seal.

Article no.: 3048960



Cavity wall insulation

IKO FLEXPLUG

Black synthetic plug to fix the insulation to a solid substrate.
Available in lengths between 100 and 260 mm for insulation thicknesses between 45 and 220 mm.
Packaging: 250 pieces. **Article no.:** 30461280 to 30461294.

IKOFIX FLEX ANCHOR

Stainless steel wall tie for black synthetic Flex Plug available in lengths between 220 and 400 mm. **2 versions:** stainless steel A2 and stainless steel A4. **Packaging:** 250 pieces.
Article no.: 30461340 tot 30461356.

IKO TAP TOOL

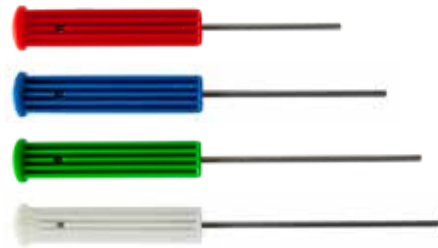
Setting tool for Flex and Perfo plug available in different, individually colour coded lengths. **Packaging:** per item.
Article no.: red 30461310, blue 30461315, green 30461320, transparent 30461325.

IKO PERFOPLUG

Blue synthetic plug to fix the insulation to a hollow substrate.
Available in lengths between 140 and 180 mm for insulation thicknesses between 60 and 120 mm.
Packaging: 250 pieces. **Article no.:** 30461295 to 30161305.

IKOFIX PERFO ANCHOR

Stainless steel wall tie for blue synthetic Perfo Plug available in lengths between 220 and 400 mm. **2 versions:** stainless steel A2 and stainless steel A4. **Packaging:** 250 pieces.
Article no.: 30461365 to 30461368.



IKO PERFO TOOL

Stainless steel setting tool for stainless steel IKOfix Perfo Anchor.
Diameter: 4 mm. **Packaging:** per item. **Article no.:** 30461380.

IKO FLEX TOOL

Tube for stainless steel Flexplug.
 Available in 75, 110 and 350 mm lengths.
Packaging: per item. **Article no.:** 30461400 to 30461420.

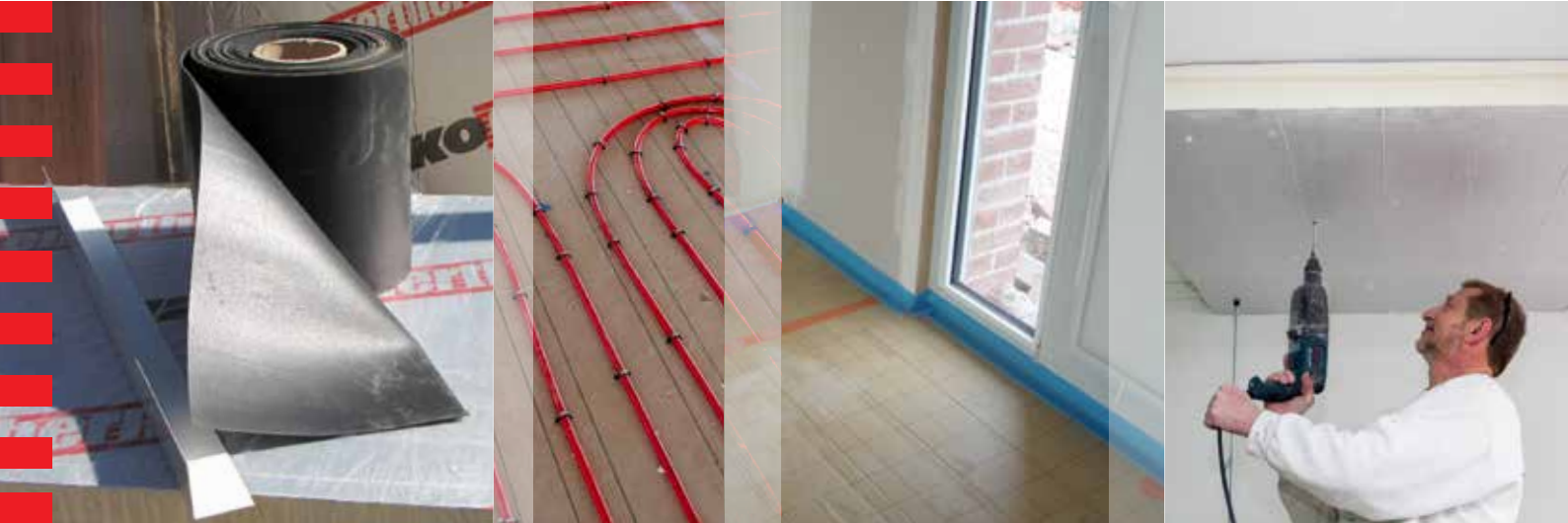
Inside wall insulation

IKO FIX AD

90-mm-long, adjustable, galvanised hardened steel screw to facilitate quick and easy fixing of wooden batons to stone and concrete substrates. The specially developed screw head reduces the risk of splitting the wood. Each pack comes complete with a specially adapted screw bit.

IKO FIX GYPSUM

Fast build plasterboard screw, grey phosphate coated to prevent corrosion. Available in 4 lengths 55-75-90-120. Each pack comes complete with a specially adapted screw bit to prevent the screw from being screwed through the plasterboard.



Outside wall insulation

IKOFIX EPDM TAPE



EPDM tape for wrap system. 20 cm.

Article no.: 30449400.

IKOFIX PLASTISOL



L profile for wrap system.

Length: 3 m, 40 mm x 40 mm.

Article no.: 30454320.

IKOFIX FAST ANCHOR



Metal hammer plugs used to fix insulation and battening directly to bricks or concrete. **Available** in lengths of 150 mm (isolation max.100 mm) and 180 mm (isolation max.130 mm).

Article no.: 30462150 - 30462180.



Floor insulation

IKO TACKER



Stapler, used to fix IKOFIX staples.

Article no.: 30452750

IKOFIX AGRAFES



Staples used to fix underfloor heating hoses to IKO enertherm insulation.

Article no.: 30452765 - 42 mm - 2500 pieces

Article no.: 30452770 - 61 mm - 2500 pieces

IKOFIX XPE BAND



Self-adhesive edging strip, length 50 m. Various widths and thicknesses available. **Packaging:** per 8 rolls.

Article no.: 30902700 - green - 5/120

Article no.: 30902710 - grey - 5/150

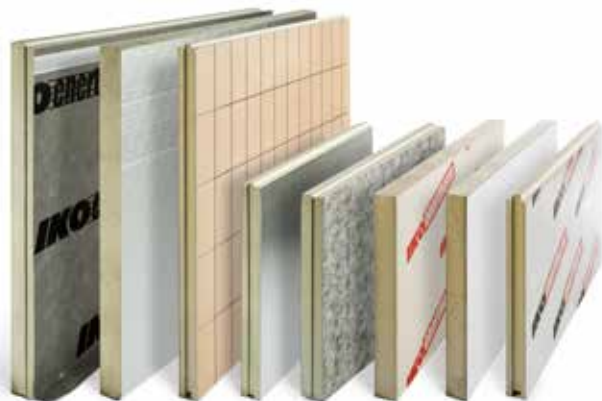
Article no.: 30902715 - blue - 8/150





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enertherm[®] INSULATION



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