A system for every application
Why is IKO enertherm your best bet?

Good insulation makes a positive contribution to the environment

- The cooling and heating of buildings causes approximately 40% of the world's total CO2 emissions.
- The insulation of buildings is therefore the most direct and efficient solution for saving energy and reducing CO2.
- In most cases, building insulation can easily be improved and/or retro-fitted.
- Over 50 years, IKO enertherm has saved 100 times more energy than the intrinsic energy required for its manufacture.

Raw materials and the manufacturing process

- Manufacturing is 100% free from CFCs and H/CFCs; IKO enertherm is therefore a non-ozone depleting product, and does not contribute to global warming.
- A significant proportion of the raw materials used in manufacturing is of a renewable (recycled) nature.
- Compared to the other existing insulation materials, IKO enertherm has the lowest consumption of raw materials, yet achieves the same insulation value (mineral wool, for example, requires 10 x more weight in raw materials).
- The production process has been designed to ensure that milling and sawmill waste is kept to a minimum. The already minimal waste is either recycled into insulation flakes or incinerated with energy recovery.

The highest efficiency per m²

- Ergonomic insulation is up to 90% lighter than mineral wool for the same thermal resistance.
- The low weight and limited volume translate into reduced costs for the transport and handling of IKO enertherm insulation boards.
- The thinnest board thanks to the best lambda value.

IKO enertherm is a PIR insulation

PIR is a substantially improved PUR. Although PIR and PUR are manufactured from the same basic raw materials, there is a number of major differences between these two insulation materials:

- Increased fire safety.
- High dimensional stability, form retention and compression-resistance

IKO enertherm fire class

- In application: B S2 DO.
- Does not melt in case of fire.
- Does not drip in case of fire.
- Very low smoke development.
- The chemical structure has fire-retardant properties.
- No additional fire-retardants.

The Antwerp Fire Department opted for the fire-resistant polygem prevENt roof system with enertherm.
A system for every flat roof

IKO enertherm BGF
Coated on both sides with a bituminised glass fibre membrane, free from sand and talcum.

\[ \lambda_D \text{ value } = 0.026 \text{ W/mK if thickness } \geq 120 \text{ mm,} \\
0.027 \text{ W/mK if thickness } \geq 80 \text{ mm and } 0.028 \text{ W/mK if thickness } < 80 \text{ mm.} \]

Applications
- A partially flame-welded sub-layer or top layer.
- A fully bonded roofing system with bituminous cold glue.
- A mechanically fastened roofing system, 1 or 2 layers.
- A loosely-laid, ballasted roofing system.

Also available with tapering, and with a rebate on request.

Dimensions
Board dimensions: 600 x 1200 mm, with rebate on request.
Thickness between 40 and 120 mm. (Other thicknesses available on request.)
Also available with tapering.

IKO enertherm ALU
Coated on both sides with a multi-layer gastight aluminium complex.

Fire classification: B S2 D0 (EN 13501-1: End Use)
Thermal conductivity: \[ \lambda_D \text{ value } = 0.023 \text{ W/m.K} \]

Applications
- 1 or 2 layer mechanically-fastened roofing systems.
- Loose-laid, ballasted roofing systems.
- Partially self-adhesive sub-layers and welded bituminous roofing systems.
- Bonded 1-layer synthetic roofing systems.

IKO enertherm MG
Coated with perforated glass fleece.

Thermal conductivity: \[ \lambda_D \text{ value } = 0.026 \text{ W/mK if thickness } \geq 120 \text{ mm,} \\
0.027 \text{ W/mK if thickness } \geq 80 \text{ mm and } 0.028 \text{ W/mK if thickness } < 80 \text{ mm.} \]

Applications
- 1 or 2 layer mechanically-fastened roofing systems.
- Loose-laid, ballasted roofing systems.
- Partially self-adhesive sub-layers and welded bituminous roofing systems.
- Bonded 1-layer synthetic roofing systems.
IKO enertherm: High efficiency insulation

Overview of the declared thermal resistance: $R \text{ [m}^2\text{K/W]}$

<table>
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</table>

Why IKO enertherm:

1. Your contribution to the protection of the environment
2. CFC-free foam with no production waste
3. The highest efficiency per $m^2$
4. IKO enertherm is a PIR insulation
5. IKO enertherm fire classification
6. Lightweight
7. Minimum board thickness, maximum efficiency

Certificates

[CE, ATG, ISO, ACERMI, U, FM Approved logos]
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