SUSTAINABLE FLAT ROOF WATERPROOFING
Full-range supplier of roofing, waterproofing and insulation systems

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Family business

IKO is a pioneering producer of roofing, insulation and waterproofing solutions. With over 30 factories worldwide and 4,500 employees, IKO has earned a global place in this market segment. Not only that, as a family business, IKO also stands out with its short communication lines and fast decision-making which make it an extremely versatile and expeditious company.

Operating worldwide

Our products are shipped from the high-tech bitumen factory in Antwerp to over 70 countries. Sweden, Finland, Iceland, the Emirates, Madagascar, Morocco, … we are familiar with every climate. Our waterproofing and insulation systems are also used worldwide in all kinds of new building and renovation projects.

100 years of experience

We have been leading the market for over 100 years now. IKO has had a ready-made solution for both industrial and private buildings since 1911. Besides the production of bitumen roofing sheets, IKO also produces high-quality PIR insulation, liquid waterproofing and waterproofing accessories such as primers and glues.

Innovative full systems

The European headquarters and R&D centre of the IKO group are both located in Antwerp, Belgium. At IKO it is our mission to develop durable, energy-efficient and ecologically responsible products. Using our knowledge and experience in roofing, insulation and liquid waterproofing, we develop and produce new products. When combined, they are full system solutions for many projects in the building industry.

Hence our motto: **IKO Pushing Limits**
IKO energy roofs

An energy roof is not only a roof that helps you to reduce your energy consumption; it can also be used to generate energy. Thanks to the perfect IKO roofing membrane you can maximise your yield from solar panels and other technical installations on the roof. IKO energy roofs have important benefits if you favour sustainable projects.

IKO utility roofs

A utility roof is the perfect way to create additional living space. The IKO range offers the ideal membranes to stand up to intensive usage. Thanks to extremely strong and attractively finished roof membranes, nothing prevents you from accomplishing your building projects.
IKO green roofs
A green roof helps you to boost the sustainability of your company and the environment. Furthermore, green roofs look gorgeous in every season. IKO has in its product range root-resistant membranes that suit different installation techniques and which may be applied under every type of green roof. Bituminous IKO roofs offer the safest waterproofing solution under a garden roof.

IKO made-to-measure roofs
IKO has a roof system for every kind of flat roof. The different layers from the IKO product range can be perfectly combined, together with insulation, to achieve the perfect solution for every roof. No compromises are required and thanks to the many possibilities offered by the IKO range, you can waterproof your roof exactly as you wish.
CERTIFIED
IKO flat-roof waterproofing systems installed by an IKO Certified Contractor are additionally protected with the ALL-IN 10-year-certified IKO guarantee. This covers not only the product, but also the roof concept and the work of the IKO Certified Contractor. This means that not only roof damage, but also consequential damage is covered by this fully comprehensive insurance. For more info about the ALL-IN guarantee or the training to become an IKO Certified Contractor, please contact IKO.

RESISTANCE TO EXTERNAL FIRE EXPOSURE
The certified top layers in the IKO range meet the European standards for resistance to burning brand test. Depending on the national regulations, they will pass the Broof T1 or T2 tests. Our premium membranes, such as IKO carrara, IKO carbon and IKO pantera can even meet the 4 European tests, demonstrating their resistance in even the strictest fire tests. The fire resistance of the IKO membranes is achieved with the addition of expandable graphite on the roofing membrane. This graphite is an extremely eco-friendly fire retarder. Thanks to its specific characteristics it blocks the flame, prevents the coating from dripping and restricts smoke development. The fire-retardant effect remains stable throughout the roof’s life.

SUITABLE FOR GREYWATER COLLECTION
Using IKO’s roof sealing systems, it is possible to collect and reuse water from a flat roof. Indeed, the fact they do not leach means that every IKO bituminous top layer with a mineralised finish is suitable for greywater recuperation. In this regard, we refer to documents from the BBRI (2013) and Tauw (2009) which are available on request from your IKO advisor.

RECYCLABLE
At IKO, recycling is incorporated into the various stages of the production process. Our factory is equipped with the necessary recycling machines that can process bituminous membranes into new raw materials. These are reincorporated during the production of new roofing membranes. The addition of recycled materials during the production process is controlled in such a way that optimal quality is maintained. Recycling and quality go hand in hand.
IKO ENERGY ROOFS

An energy roof is a roof that reduces energy consumption and on which energy is generated. IKO’s white bituminous membranes increase the yield of technical installations and solar panels on a flat roof. Furthermore, they boost the thermal performance of the insulation. Not only that, they also reflect the worst heat during the summer months. IKO energy roofs keep you cool.

IKO secura
IKO secura is a waterproofing membrane composed of elastomer (SBS) bitumen with fire-retardant properties and a polyester-glass combination reinforcement. The upper surface is finished with white titanium dioxide granulate (SRI 82) and the lower surface consists of self-adhesive bitumen. This top layer can be applied in a single- or multi-ply system.

Benefits:
- Fire-safe membrane – Broof T1
- Safety overlap for immediate sealing and protection of insulation
- Self-adhesive membrane for fast and easy installation
- Excellent dimensional stability
- IKO carrera finish
- Insurance-backed system solution

IKO carrera
IKO carrera is a waterproofing membrane composed of elastomer (SBS) bitumen with fire-retardant properties and a polyester-glass combination reinforcement. The upper surface is finished with white titanium dioxide granulate (SRI 82) and the lower surface is protected by a thermofusible film. This top layer can be applied in a single- or multi-ply system.

Benefits:
- Air purifying thanks to titanium dioxide (TiO2)
- Boosts thermal performance of insulation
- Improves efficiency of technical installations and solar panels on flat roofs
- Cooling and reflective
- Resistant to burning brand
- Lifespan > 35 years
- Insured system solution

CAP SHEETS

<table>
<thead>
<tr>
<th>Description</th>
<th>Length</th>
<th>Product no.</th>
<th>Approvals / Labels / Norms</th>
<th>Broof</th>
<th>Top finish</th>
<th>Bottom finish</th>
<th>Thickness / Weight</th>
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</table>

Download the technical data sheets of these products via the QR code next to the table.
A utility roof is the perfect way to create additional living space. Additional outdoor living space increases the quality of life. Given the more intensive use of the roof, an adapted roof covering is required which supports the roof’s functionality. The IKO carbon and IKO pantera are ideal on a roof that is subjected to intensive use.

IKO carbon
IKO carbon is a waterproofing membrane composed of plastomer (APP) bitumen with fire-retardant properties and a polyester-glass combination reinforcement. The upper surface is finished with black granulate and the lower surface is protected by a thermofusible film, always in combination with the TURBO profile. This top layer can be applied in a single- or multi-ply system.

Benefits:
- Resistant to burning brand - Broof T4
- Turbo finish, for faster installation and a perfect weld
- Flexible, even at low temperatures
- Attractive black finish
- Root resistant variant available
- Insured system solution

| CAP SHEETS |
|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Description      | Length | Product no. | Approvals / Labels / Norms | Broof | Top finish | Bottom finish | Thickness / Weight | 
| IKO carbon       | 7.5 m  | 01528534    | ATG 2323 + IAB 08/0316       | T1-T3 | GRB        | TURBO          | 4 mm             | •     | •     |
| IKO carbon       | 5 m    | 01528585    | ATG 2323 + IAB 08/0316       | T1-T3 | GRB        | TURBO          | 4 mm             | •     | •     |
| IKO carbon 250   | 7.5 m  | 01528531    | ATG 2323 + IAB 08/0316 + AT 5.2/18-2636_V1 | T1-T4 | GRB        | TURBO          | 4 mm             | •     | •     |
| IKO carbon 250   | 5 m    | 01528532    | ATG 2323 + IAB 08/0316 + AT 5.2/18-2636_V1 | T1-T4 | GRB        | TURBO          | 4 mm             | •     | •     |
| IKO pantera      | 7.5 m  | 01564844    | ATG 2996                    | T1-T4 | GRB        | F              | 4 mm             | •     | •     |
| IKO pantera super s | 5 m | 01566095    | CTG-500                     | T1    | AR         | F              | 4.5 mm           | •     | •     |
| IKO roofgarden Pantera | 7.5 m | 01564854 | T1-T4 | GRB | F | 4 mm | • • • |

IKO pantera
IKO pantera is a waterproofing membrane composed of elastomer (SBS) bitumen with fire-retardant properties and a polyester-glass combination reinforcement. The upper surface is finished with black granulate and the lower surface is protected by a thermofusible film. This top layer can be applied in a single- or multi-ply system.

Benefits:
- Resistant to burning brand - Broof T4
- Strong adhesion, fast installation
- Flexible at low temperatures
- Attractive black finish
- Root resistant variant available
- Insured system solution

Download the technical data sheets of these products via the QR code next to the table.
IKO GREEN ROOFS

A green roof adds that extra touch to your home. A green roof is covered with all types of vegetation. Grasses, herbs, succulents or other vegetation are used to give the roof an attractive, green appearance. The colour palette also varies with the season. If you choose a green roof then the roofing membrane must be appropriate to protect both the vegetation and the building.

IKO roogarden

IKO roogarden is a waterproofing membrane composed of plastomer (APP) or elastomer (SBS) bitumen with root resistant additives, fire-retardant properties and a polyesterglass combination reinforcement. The upper surface is finished with dark grey mineral slate and the lower surface is protected by a thermod fusible film. This top layer can be applied in a single- or multi-ply system.

Benefits:

- Root resistant
- Can be applied in a double layer system for maximum security
- Can be compartmentalised for easy leak detection
- High puncture resistance offers protection during installation of the garden
- Insurance-backed system solution

### CAP SHEETS

<table>
<thead>
<tr>
<th>Description</th>
<th>Length</th>
<th>Product no.</th>
<th>Approvals / Labels / Norms</th>
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<th>Bottom finish</th>
<th>Thickness / Weight</th>
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Description Length Product no. Approvals / Labels / Norms Broof Top finish Bottom finish Thickness / Weight
IKO carbon 250 7.5 m 01528531 ATG 2323 + IAB 08/0316 + AT 5.2/18-2636_V1 T1-T4 GRB TURBO 4 mm
IKO carbon 250 5 m 01528532 ATG 2323 + IAB 08/0316 + AT 5.2/18-2636_V1 T1-T4 GRB TURBO 4 mm
IKO roogarden Pantera 7.5 m 01564854 T1-T4 GRB F 4 mm

Download the technical data sheets of these products via the QR code next to the table.
IKO has a made-to-measure solution for every flat roof. All IKO products combine seamlessly with each other to ensure that the flat roof is perfectly waterproof. IKO’s bitumen roof covering are the best technology for flat roofs when you want a perfectly watertight and durable roof. For the most common roof structures we refer to the summary at the end of this brochure, or you can compose your own roof using the handy tool on the IKO website.

### CAP SHEETS APP

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<th>Description</th>
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</table>
## Benefits:

- Long lifespan > 35 years
- Extra strong - high penetration resistance
- Resistance to all kinds of weather conditions
- Attractive roof finish
- Ideal for rainwater recovery
- New building or renovation projects

### CAP SHEETS SBS

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<tr>
<th>Description</th>
<th>Length</th>
<th>Product no.</th>
<th>Approvals / Labels / Norms</th>
<th>Broof</th>
<th>Top finish</th>
<th>Bottom finish</th>
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IKO powerflex Mono 3 MB       | 6 m    | 01564085     | CTG-499 + IAB 08/0316 + FM Approval | T1-T4 | AD         | F             | 3.2 mm            |

Download the technical data sheets of these products via the QR code next to the table
### SELF ADHESIVE

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<th>Approvals / Labels / Norms</th>
<th>Top finish</th>
<th>Bottom finish</th>
<th>Thickness / Weight</th>
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<tbody>
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### FLAME-TORCHED

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<td>SINTEF TA 20090</td>
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<td>F</td>
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<td>T</td>
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</table>

**Download the technical data sheets of these products via the QR code next to the table.**
IKO VAPOUR BARRIERS

**IKO VAPOUR BARRIERS**

- **Class I:** Buildings with little to no permanent moisture production
  (Warehouses for dry goods, showrooms, garages, workshops, …)
- **Class II:** Buildings with limited moisture production per m³ and with good ventilation
  (Schools, shops, sports halls, …)
- **Class III:** Buildings with substantial moisture production per m³ and with moderate to sufficient ventilation
  (Hospitals, restaurants, buildings with little air-conditioning, …)
- **Class IV:** Buildings with high moisture production
  (Swimming pools, laundries, printing establishments, buildings with much air-conditioning, …)

It is recommended to ALWAYS use vapour barriers for indoor climate class III or IV.
For vapour barriers of class III or lower, products from the IKO base range are suitable. Consult your IKO specialist for further specification details.

### Benefits:
- Suitable as vapour barrier for indoor climate class IV
- Suitable for walking
- Quick and easy installation
- Does not influence the building’s functionality

### Description Length Product no. Approvals / Labels / Norms Top finish Bottom finish Thickness / Weight

<table>
<thead>
<tr>
<th>Description</th>
<th>Length</th>
<th>Product no.</th>
<th>Approvals / Labels / Norms</th>
<th>Top finish</th>
<th>Bottom finish</th>
<th>Thickness / Weight</th>
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<tbody>
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<td>ALU</td>
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<td>ALU</td>
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<td>Class I - III, BENOR</td>
<td>T</td>
<td>F</td>
<td>3 mm</td>
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</table>

Download the technical data sheets of these products via the QR code next to the table.

The building’s **indoor climate class** is determined based on the vapour pressure inside the building; this pressure is influenced in particular by the moisture production inside the building. There are four indoor climate classes.

<table>
<thead>
<tr>
<th>Class I: Buildings with little to no permanent moisture production</th>
<th>Class II: Buildings with limited moisture production per m³ and with good ventilation</th>
<th>Class III: Buildings with substantial moisture production per m³ and with moderate to sufficient ventilation</th>
<th>Class IV: Buildings with high moisture production</th>
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</thead>
<tbody>
<tr>
<td>(Warehouses for dry goods, showrooms, garages, workshops, …)</td>
<td>(Schools, shops, sports halls, …)</td>
<td>(Hospitals, restaurants, buildings with little air-conditioning, …)</td>
<td>(Swimming pools, laundries, printing establishments, buildings with much air-conditioning, …)</td>
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</tbody>
</table>

The building’s **indoor climate class** is determined based on the vapour pressure inside the building; this pressure is influenced in particular by the moisture production inside the building. There are four indoor climate classes.

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It is recommended to ALWAYS use vapour barriers for indoor climate class III or IV.
For vapour barriers of class III or lower, products from the IKO base range are suitable. Consult your IKO specialist for further specification details.
**IKO Waterproofing for Bridges and Infrastructure**

**IKO polybridge** is a waterproofing membrane composed of plastomer (APP) bitumen and a polyester-glass fibre composite reinforcement. The upper surface is finished with talc and the lower surface is covered with a thermofusible film. IKO polybridge, when combined with protection consisting of mastic asphalt or road asphalt, offers an adequate solution for car park roofs, bridge decks and tunnels with a bonded waterproofing system that can be operational immediately after installation.

**IKO barrier** membranes range contains bituminous membranes which form an efficient Radon gas protection (Radon barrier) or protect buildings from underground water (Hydro barrier). The range also includes strips to apply into walls to defer capillary moisture.

The membranes consist of an elastomeric bitumen (SBS) of 3 mm or 4 mm thick with reinforcement of polyester/glass-combination 180 g/m². These sealing layers have a sand finishing on the top-side and a torch-away film on the welding strip for fast and easy installation. The underside of these membranes is finished with a torch-away film.

## Waterproofing for Bridges

<table>
<thead>
<tr>
<th>Description</th>
<th>Length</th>
<th>Product no.</th>
<th>Approvals / Labels / Norms</th>
<th>Top finish</th>
<th>Bottom finish</th>
<th>Thickness / Weight</th>
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## Waterproofing for Infrastructure

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### IKO Hydro Barrier Strip

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<tr>
<td>0.14 m</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>0.10 m</td>
<td></td>
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<tr>
<td>0.09 m</td>
<td></td>
<td></td>
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</tbody>
</table>

Download the technical data sheets of these products via the QR code next to the table.
IKO bituminous membranes are suitable for every kind of flat roof. Our expertise lies in making roofs waterproof, but perfect waterproofing requires more than just a high-quality bituminous membrane. The roofer plays an essential role in waterproofing the roof. Over the years, IKO has listened carefully to its customers and has integrated their needs in solutions that are literally ready to roll.

### TURBO STUDS

**Rapid weld roll**

IKO membranes with TURBO stud finish increase the flame contact by at least 15%, speeding up installation of the roll compared to traditional rolls with a smooth underside. This membrane saves on installation time and gas consumption, not to mention ensuring excellent adhesion.

### QUADRA

**Vapour-pressure-distributing roll**

The IKO membranes with an underside covered in bitumen squares are called IKO QUADRA. These membranes have an integrated vapour diffusion system. This prevents bubbles forming in the roof on damp and/or non-gastight surfaces. The chequered pattern creates the ideal ratio between wind resistance and vapour-pressure release. A further benefit is that it is more rapidly applied when renovating.

### TECNO

**Roll for mechanical attachment**

IKO rolls for mechanical attachment are almost always finished with a wide 12 cm overlap for added strength and safety in the welded seal.

### SAFETY OVERLAP

The IKO secura membrane is fitted with a unique, semi self-adhesive safety overlap of 10 cm. This safety overlap ensures immediate sealing and protection of the underlying insulation. The non-adhesive part of the overlap can be torched by flame or heat welded. The ideal solution if a flame-free system is required.
IKO suitable for flame-free installation

Besides the traditional flame welding of bitumen membranes, there are also many other ways to make a flat roof perfectly waterproof. When blowtorches are banned from the roof, roofers can apply the bitumen entirely without flame, using self-adhesive membranes, cold gluing or mechanically fixed systems. IKO offers the appropriate membrane or system for every one of these solutions. The overlaps in IKO roofing rolls can be welded with hot air or using an ‘encapsulated flame’.

**IKO SECURA SYSTEM**

The IKO secura waterproofing system with Carrara technology is a single-ply, bitumen-based, self-adhesive waterproofing system for flat roofs. It is a high-quality, sturdy and thick (4 mm) bituminous membrane with a safety overlap for the immediate sealing and protection of the insulation. This allows the overlap to be heat-welded, whereby the installation of this system can be carried out without requiring a flame.

**COLD-GLUE SYSTEMS**

Cold gluing is another way of waterproofing the flat roof without the use of a blowtorch. The gluing of roofing sheets can be achieved quickly and safely. IKO’s range includes top layers and underlay that can be glued. Also, in the IKO pro range, IKO has developed cold gluing to allow the continued and perfect compatibility between the membrane and glue. The overlaps can be either torched or heat welded.

**MECHANICALLY ATTACHED SYSTEMS**

When using mechanical application methods, the roofing is fixed with screws and washers. You can choose between a partial mechanical of full mechanical fixing. Another benefit in a system of mechanically fixed roof is that the roof elements can be easily separated when demolished later. The IKO membranes labelled TECNO are especially designed for mechanical fixing. They have an extra-wide overlap of 12 cm for an extra-strong and secure welded seam. The overlap can be either torched or heat welded.

**SELF-ADHESIVE UNDERLAY AND VAPOUR BARRIERS**

Self-adhesive underlay and vapour barriers are standard in the IKO range. These are the IKO base and IKO shield membranes with reference to Stick and/or SA in the name. The underside of the self-adhesive rolls is protected with a light-grey release film. This film is easily removed during installation, whereby the membrane immediately sticks to the surface below. Installation of self-adhesive membranes is quick and allows work to progress very efficiently.
IKO roof structures

→ NEW BUILD
→ CONCRETE
→ BONDED SYSTEM

→ NEW BUILD
→ CONCRETE
→ LOOSE-LAIRED AND BALLASTED SYSTEM

→ NEW BUILD
→ CONCRETE
→ GREEN ROOF

**CAP SHEET**
- IKO carrara
- IKO carbon
- IKO pantera
- IKO powergum
- IKO powerflex

**FASTENING OF CAP SHEET**
Fully bonded by torching

**UNDERLAY**
- A: IKO base Quadra T/SA
- A: IKO base Quadra F/SA
- B: IKO base Quadra T/F at temp. < 5°C

**FASTENING OF UNDERLAY**
- A: Pull away release foil + press
- B: Partially welded at temp. < 5°C

**INSULATION**
- IKO enertherm ALU
- IKO enertherm BGF at temp. < 5°C

**FASTENING OF INSULATION**
Partially bonded with IKO pro PU adhesive

**VAPOUR BARRIER**
- IKO shield ALU 3 T/F
- IKO shield ALU 4 T/F

**FASTENING OF VAPOUR BARRIER**
Fully bonded by torching

**SUBSTRATE**
Concrete + IKO pro Quickprimer or IKO pro ECO primer

IKO pro Sprayfast or IKO pro PU glue can also be used for bonding the insulation boards.

N/A = not applicable
NEW BUILD
WOOD
BONDED SYSTEM

NEW BUILD
WOOD
MECHANICALLY FASTENED INSULATION

NEW BUILD
WOOD
SINGLE-PLY COLD BONDED

CAP SHEET
IKO carrara
IKO carbon
IKO pantera
IKO powergum
IKO powerflex

FASTENING OF CAP SHEET
Fully bonded by torching

UNDERLAY
A: IKO base Quadra T/SA
A: IKO base Quadra F/SA
B: IKO base Quadra T/F at temp. < 5°C

FASTENING OF UNDERLAY
A: Pull away release foil + press
B: Partially welded at temp. < 5°C

INSULATION
IKO enertherm ALU
IKO enertherm BGF at temp. < 5°C

FASTENING OF INSULATION
Partially bonded with IKO pro PU adhesive

VAPOUR BARRIER
IKO shield PRO ALU/SA

FASTENING OF VAPOUR BARRIER
Pull away release foil + press

SUBSTRATE
Wood + IKO pro SA primer

IKO pro Sprayfast or IKO pro PU glue can also be used for bonding the insulation boards.

N/A = not applicable
IKO roof structures

NEW BUILD
STEELDECK
BONDED SYSTEM

NEW BUILD
STEELDECK
MECHANICALLY FASTENED INSULATION

NEW BUILD
STEELDECK
MECHANICALLY FASTENED SINGLE-PLY

**CAP SHEET**
IKO carrara
IKO carbon
IKO pantera
IKO powergum
IKO powerflex

**FASTENING OF CAP SHEET**
Fully bonded by torching

**UNDERLAY**
A: IKO base Quadra T/SA
A: IKO base Quadra F/SA
B: IKO base Quadra T/F at temp. < 5°C

**FASTENING OF UNDERLAY**
A: Pull away release foil + press
B: Partially welded at temp. < 5°C

**INSULATION**
IKO enertherm ALU
IKO enertherm BGF at temp. < 5°C

**FASTENING OF INSULATION**
Partially bonded with IKO pro PU adhesive

**VAPOUR BARRIER**
IKO shield PRO ALU/SA

**FASTENING OF VAPOUR BARRIER**
Pull away release foil + press

**SUBSTRATE**
Steeldeck + IKO pro SA primer

**FASTENING OF VAPOUR BARRIER**
Pull away release foil + press

**SUBSTRATE**
Steeldeck + IKO pro SA primer

**CAP SHEET**
IKO carrara
IKO carbon
IKO pantera
IKO powergum
IKO powerflex

**FASTENING OF CAP SHEET**
Fully bonded by torching

**UNDERLAY**
A: IKO base Quadra T/SA
A: IKO base Quadra F/SA
B: IKO base Quadra T/F at temp. < 5°C

**FASTENING OF UNDERLAY**
A: Pull away release foil + press
B: Partially welded at temp. < 5°C

**INSULATION**
IKO enertherm ALU
IKO enertherm BGF at temp. < 5°C

**FASTENING OF INSULATION**
Mechanically fastened using IKO fix EDS-S, small round plates

**VAPOUR BARRIER**
IKO base Stick T/SA

**FASTENING OF VAPOUR BARRIER**
Pull away release foil + press

**SUBSTRATE**
Steeldeck + IKO pro SA primer

**FASTENING OF VAPOUR BARRIER**
Pull away release foil + press

**SUBSTRATE**
Steeldeck + IKO pro SA primer

IKO pro Sprayfast or IKO pro PU glue can also be used for bonding the insulation boards.

N/A = not applicable
NEW BUILD
STEELDECK OR WOOD
MECHANICALLY FASTENED INSULATION AND UNDERLAY

REFURBISHMENT
WITH INSULATION
BONDED SYSTEM

REFURBISHMENT
WITHOUT INSULATION
PARTIALLY TORCHED SYSTEM

CAP SHEET
IKO carrara
IKO carbon
IKO pantera
IKO powergum
IKO powerflex

FASTENING OF CAP SHEET
Fully bonded by torching

UNDERLAY
IKO base P3 F/T
IKO base P3200 SBS F/T
IKO base P4000 SBS T/F

FASTENING OF UNDERLAY
Mechanically fastened

INSULATION
IKO enertherm ALU

FASTENING OF INSULATION
Mechanically fastened using IKO fix EDS-S, small round plates

VAPOUR BARRIER
A: IKO base Stick T/SA
B: IKO base P3000 SBS T/F

FASTENING OF VAPOUR BARRIER
A: Pull away release foil + press
B: Mechanically fastened

SUBSTRATE
A: Steeldeck or wood + IKO pro SA primer
B: Steel deck or wood without primer

CAP SHEET
IKO carrara
IKO carbon
IKO pantera
IKO powergum
IKO powerflex

FASTENING OF CAP SHEET
Fully bonded by torching

UNDERLAY
A: IKO base Quadra T/SA
A: IKO base Quadra F/SA
B: IKO base Quadra T/F at temp. < 5°C

FASTENING OF UNDERLAY
A: Pull away release foil + press
B: Partially welded at temp. < 5°C

INSULATION
IKO enertherm ALU
IKO enertherm BGF at temp. < 5°C

FASTENING OF INSULATION
Partially bonded with IKO pro PU adhesive

VAPOUR BARRIER
Old bitumen roof covering

FASTENING OF VAPOUR BARRIER
Check the wind stability of the old bitumen roof covering

SUBSTRATE
Old bitumen roof covering

CAP SHEET
IKO powergum quadra AD
IKO powerflex Quadra Black

FASTENING OF CAP SHEET
Partially torched

UNDERLAY
N/A

FASTENING OF UNDERLAY
N/A

INSULATION
N/A

FASTENING OF INSULATION
N/A

VAPOUR BARRIER
N/A

FASTENING OF VAPOUR BARRIER
Check the wind stability of the old bitumen roof covering

SUBSTRATE
Old bitumen roof covering + IKO pro Quickprimer or ECO primer

IKO pro Sprayfast or IKO pro PU glue can also be used for bonding the insulation boards.
N/A = not applicable
IKO roof structures

NEW BUILD REVERSE ROOF
CONCRETE
GRAVEL

NEW BUILD REVERSE ROOF
CONCRETE
TILES

NEW BUILD REVERSE ROOF
CONCRETE
GREEN ROOF

BALLAST
Gravel

SEPARATING LAYER
Waterproof vapor-open membrane

INSULATION
XPS insulation boards

FASTENING OF INSULATION
Loosely laid

CAP SHEET
IKO powerflex 4 T/F ICE
Upstands:
IKO powerflex 4 AD/F ICE

FASTENING OF CAP SHEET
Fully bonded by torching

UNDERLAY
IKO powerflex 5000 T/F

FASTENING OF UNDERLAY
Fully bonded by torching

SUBSTRATE
Concrete + IKO pro Quickprimer
or IKO pro ECO primer

BALLAST
Tiles

SEPARATING LAYER
Waterproof vapor-open membrane

INSULATION
XPS insulation boards

FASTENING OF INSULATION
Loosely laid

CAP SHEET
IKO powerflex 4 T/F ICE
Upstands:
IKO powerflex 4 AD/F ICE

FASTENING OF CAP SHEET
Fully bonded by torching

UNDERLAY
IKO powerflex 5000 T/F

FASTENING OF UNDERLAY
Fully bonded by torching

SUBSTRATE
Concrete + IKO pro Quickprimer
or IKO pro ECO primer

BALLAST
Green roof

SEPARATING LAYER
Waterproof vapor-open membrane

INSULATION
XPS insulation boards

FASTENING OF INSULATION
Loosely laid

CAP SHEET
IKO roofgarden

FASTENING OF CAP SHEET
Fully bonded by torching

UNDERLAY
IKO powerflex 5000 T/F

FASTENING OF UNDERLAY
Fully bonded by torching

SUBSTRATE
Concrete + IKO pro Quickprimer
or IKO pro ECO primer
<table>
<thead>
<tr>
<th>Component</th>
<th>Material</th>
<th>Temporary Fixing Method</th>
<th>Permanent Fixing Method</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CAP SHEET</strong></td>
<td>1. IKO powerflex PF 5000</td>
<td>Fully bonded by torching</td>
<td></td>
</tr>
</tbody>
</table>
| **FASTENING OF CAP SHEET** | A: IKO powergum 470K24  
B: IKO powerflex MONO 3 MB |  | A: Fully bonded by torching  
B: Mechanically fastened |
| **UNDERLAY**    | IKO base Stick SBS PF 3500 | Mechanically fastened |                                               |
| **FASTENING OF UNDERLAY** | A: IKO base Tecno APP F/FL |  | A: Mechanically fastened |
| **INSULATION**  | IKO enertherm ALU | Mechanically fastened |                                               |
| **VAPOUR BARRIER** | IKO base PF 3500 | Fully bonded by torching |                                               |
| **SUBSTRATE**   | Concrete + IKO pro Quickprimer  
or IKO pro ECO primer |  | Steeldeck |

IKO pro Sprayfast or IKO pro PU glue can also be used for bonding the insulation boards.

N/A = not applicable
A SOLUTION FOR EVERY SITUATION
www.enertherm.eu

SEAMLESSLY WATERTIGHT
www.ikoflexia.com

ADHESIVES AND PRIMERS
be.iko.com
LEGEND

CAP SHEET FINISH:

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>GRW</td>
<td>White granulate</td>
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<tr>
<td>GRB/GRC</td>
<td>Black granulate</td>
</tr>
<tr>
<td>GRR</td>
<td>Red granulate</td>
</tr>
<tr>
<td>T or TT</td>
<td>Talc / sand</td>
</tr>
<tr>
<td>AD</td>
<td>Dark slate</td>
</tr>
<tr>
<td>AR</td>
<td>Light slate</td>
</tr>
<tr>
<td>AW</td>
<td>White slate</td>
</tr>
<tr>
<td>F</td>
<td>Full-surface thermofusible film</td>
</tr>
<tr>
<td>ALU</td>
<td>Aluminium foil</td>
</tr>
</tbody>
</table>

REINFORCEMENT:

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<th>Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>V</td>
<td>Glass fibre fleece reinforcement</td>
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<tr>
<td>P</td>
<td>Polyester reinforcement</td>
</tr>
<tr>
<td>ALU</td>
<td>Aluminium reinforcement</td>
</tr>
</tbody>
</table>

ROLL QUALITIES:

- Turbo: quick welding roll
- Quadra: vapour pressure distributing roll
- Tecno: roll for mechanical fastening
- Safety overlap
- Root resistant

BOTTOM FINISH:

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>F</td>
<td>Full-surface thermofusible film</td>
</tr>
<tr>
<td>QUADRA</td>
<td>‘Diamond’ profile</td>
</tr>
<tr>
<td>TURBO</td>
<td>Burled profile</td>
</tr>
<tr>
<td>MMP</td>
<td>Perforated polyethylene thermofusible film</td>
</tr>
<tr>
<td>SA</td>
<td>Siliconized, white release foil, self-adhesive</td>
</tr>
<tr>
<td>T</td>
<td>Talc / sand</td>
</tr>
<tr>
<td>FL</td>
<td>Naked polyester fleece</td>
</tr>
</tbody>
</table>

INSTALLATION

- Torch-on
- Cold bonding
- Hot-Glued with bitumen
- Mechanical fastening
- Self-adhesive
- Loose-laid with ballast

ROOF STRUCTURES

- Cap sheet
- Underlay
- Insulation layer
- Vapour barrier
- Ballast layer