SUSTAINABLE FLAT ROOF WATERPROOFING

IKO Roofing
BITUMINOUS MEMBRANES
Full-range supplier of roofing, waterproofing and insulation systems

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IKO Group

IKO is a leading manufacturer of roofing, insulation and waterproofing solutions. With its head office located in Toronto, Canada and over 30 factories and 4,500 employees worldwide, IKO is a truly global player.

IKO nv

IKO’s European head office and the group’s R&D centre are located in Antwerp, Belgium.

Our products have been shipped from the state-of-the-art bitumen factory in Antwerp to over 70 countries since 1911. Sweden, Finland, Iceland, the Emirates, Madagascar, Morocco,… no climate is foreign to us. Our membranes are used all over the world in a wide variety of new build and refurbishment projects. IKO offers custom solutions for industrial as well as private buildings. We have been a market leader for more than 100 years and continue to build upon our roots.

In addition to bitumen roofing membranes, IKO also manufactures all related accessories for the roofing membranes. The complete range encompasses high-quality insulation boards, liquid waterproofing and complementary liquids such as primers and adhesives.

Objective

Our mission is to develop energy-efficient and ecologically responsible roof products and systems. Our technical knowledge in roofing, insulation and liquid waterproofing allows us to develop and manufacture new products which together, form ideal solutions for new build and refurbishment projects in the construction industry.

We only produce ecological products, sustainable building systems and products that we are certain will perform.

We focus on quality, ecology and innovation coupled with high-quality technology, IKO continuously strives to ‘Set the Standard’.
BITUMEN, THE IKO CHOICE

This brochure provides an overview of the complete range of IKO bituminous membranes. For flat roofs bituminous membranes are the perfect choice to achieve a bulletproof watertight and sustainable roofing system.

Long Life Span

With a life span of more than 35 years, bituminous roofing membranes are a sustainable and safe choice for flat roofs. Existing roofs can be easily refurbished, without the need to remove the current roof covering.

Extra Strong

The waterproofing of roofs is increasingly being put to the test. Roofs are the ideal extension of living and work space. Just think of houses expanding their living space with roof gardens and terraces. For professional purposes, roofs offer space for car parks, solar panels, A/C units, heat pumps and other such technical installations.

High punch resistance, which is inherent in the bitumen product, combined with a two-layer application, offers unprecedented protection of the roof regardless of its designated function.

Climate Resistance

Bitumen roofs can withstand a variety of weather conditions, such as hail, snow, formation of ice and heat. Thanks to the intrinsic properties of bitumen, the membranes can be installed hassle-free in all climates and seasons.

Aesthetics

A bitumen roof is aesthetically versatile. Whether you opt for a white, air-purifying and cooling roof or a black, elegant and designer roof, with the IKO bitumen membranes anything is possible. The installation techniques offer the client, specifier and contractor a high degree of flexibility to achieve desired results quickly and safely.

Grey Water Recycling

Recycled rainwater can assist with numerous applications, such as the use of a toilet, washing the car or using the washing machine. Thus grey water recycling is becoming increasingly important. IKO membranes have been tested and proven to be suitable for grey water recycling.
IKO has a suitable membrane for every situation. What is your requirement: vapour pressure distributing, very rapid torching, extra strong joints, mechanical fastening? Over the years, IKO has developed integrated solutions to meet your need.

**QUADRA**
Vapour pressure distribution

- Integrated vapour pressure distributing system
- Prevents blistering in the roof in the case of moist and/or non-gastight substrates
- 'Diamond' profile ensures ideal ratio between wind resistance and vapour pressure relaxation
- Allows a faster installation during refurbishment

**TURBO**
Quick welding

- Turbo profile with burls on the lower surface
- Increases flame contact by at least 10%, allowing the roll to be installed quicker, compared to a traditional roll without burls
- More flexibility than a traditional APP roll
- Saves application time and gas consumption, while also ensuring an excellent bond

**TECNO**
Mechanical fastening

- 12 cm overlap to ensure safe joints
- Extra strong welded joints
- Very stable inlay

![Images of IKO roll finishes](image-url)
The four different testing methods retained in European regulations are not equivalent to one another. Although there are a number of similarities in terms of approach, there are also some major differences. For example, a roofing membrane which only satisfies the Broof(t1) test, will not satisfy the other tests.

The principle of the 4 tests is to simulate the real danger of the incipient spread of fire in the best possible way. Therefore, during all tests, the roof surface is brought into direct contact with fire using burning small wooden blocks or wood wool. Its purpose is to examine whether the roof covering will spread the fire further or will extinguish it within an acceptable timeframe.

The 4 tests can be distinguished by the testing methods, which correspond to a ‘hierarchy of strictness’. In the Broof(t2, t3 and t4) tests the flames are also fanned by adding wind. That is because the presence of wind is inherent in the incipient spread of fire.

Tests 3 and 4, as well as the extra complication of wind, also add heat to the test environment by using heat radiation. Heat is an additional factor that can cause fire to spread.
Fire Resistance of the IKO Membranes

The fire resistance of the IKO membranes is achieved by adding expandable graphite to the upper surface of the inlay.

This graphite, of natural origin, is highly environmentally-friendly, insoluble in water and acts as a fire retardant through the specific swelling effect. This shields the flame and thus also the heat, stops any dripping of the coating and limits smoke development. The graphite does not leach, causing the fire-retardant effect to remain stable over the years.

### Secondary Fire effects

- low smoke development
- no toxic gases
- halogen-free
- limited burning / dripping
- controlled heat radiation

### Broof test 4

- heat radiation across the whole surface
- wind

### Broof test 3

- heat radiation
- wind
- contact with fire

### Broof test 2

- wind
- contact with fire

### Broof test 1

- contact with fire

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$t_1$ = test as described in the German DIn 41402/7
$t_2$ = test as described in the Scandinavian Nordtest NT Fire 006
$t_3$ = test as described in the French T 30/1
$t_4$ = test as described in the British BS 476/3

The passing of these tests results in a fire class $B_{4550}$.
THE IKO PACKAGE

APP
- IKO carbon 250
- IKO carbon
- IKO powergum
- IKO powergum quadra
- IKO powergum twin
- IKO roofgarden APP
- IKO gum

SBS
- IKO carrara
- IKO pantera
- IKO powerflex
- IKO powerflex tecno
- IKO roofgarden SBS

CAP SHEETS

UNDERLAYS
- IKO base
- IKO base quadra
- IKO base turbo
- IKO base stick
- IKO base tecno

INSULATION
- IKO enertherm
- IKO pro PU adhesive

VAPOUR BARRIERS
- IKO shield - IKO shield SA
- IKO pro primer (SA)
The ALL-in 10-Year Insurance-Backed Warranty on All Works Carried out by an IKO Certified Contractor!

Stands for 100% quality watertight satisfaction

THE ALL-IN INSURANCE-BACKED WARRANTY STANDS FOR:

- 10-year warranty on product and workmanship
- Professional work carried out by an IKO Certified Contractor
- Roof build-up consisting exclusively of IKO materials

WHO IS THE IKO CERTIFIED CONTRACTOR?

- Financially sound company
- Specialised in flat roofs
- Good reputation in the market
- Professional relationship with IKO for several years
- Commitment to use IKO products

The IKO CERTIFIED CONTRACTOR uses:

- **TOP LAYERS:** IKO carrara, IKO pantera, IKO carbon
- **UNDERLAYS:** IKO base Quadra
- **INSULATION:** IKO enertherm
- **VAPOUR BARRIERS:** IKO shield or IKO base (for indoor climate class III)

More info concerning the IKO Insured-back Warranty to be found in our brochure. Ask your copy via the website https://be.iko.com
ECO BITUMEN ROOFING MEMBRANE

IKO carrara is an ECO roofing membrane which limits the CO2 emissions by reducing the ecological footprint of the roof. The white reflective mineral on the upper side has Air Care Technology incorporated into it, which has an air-purifying effect. Under the influence of UV light, nitrogen and sulphur oxide are converted into environmentally-neutral substances which are washed away by the rain. This results in significantly improved air quality.

Cooling – Reflective

- The white roofing membrane reduces the surface temperature, which benefits the roof’s durability.
- A cool roof enhances the efficiency of equipment such as solar panels, A/C units and other technical installations.
- IKO carrara holds an SRI 79
- Reduces the greenhouse effect

Ecological

- Made from recycled raw materials
- 100% recyclable
- Manufactured using 100% green energy

Air-Purifying

- Titanium dioxide coating neutralises nitrogen and sulphur dioxide
- Air Care Technology
IKO CARRARA

**Description:**
IKO CARRARA is a waterproofing membrane composed of elastomer (SBS) bitumen with fire-retardant properties and a polyester-glass composite inlay. The upper surface is finished with white titanium oxide granulate and the lower surface is protected by a thermofusible film. This top layer can be applied in a single or multi-layer system.

**Benefits:**
- Air-purifying
- Cooling and reflective
- Resistant to the incipient spread of fire
- Tecno variant with extra wide 12-cm overlap for mechanical fastening
- Quadra variant with vapour pressure distributing ‘Diamond’ profile ideal as a refurbishment layer

<table>
<thead>
<tr>
<th>Description</th>
<th>Length</th>
<th>Product no.</th>
<th>Labels / Norms</th>
<th>Proof</th>
<th>Top finish</th>
<th>Bottom finish</th>
<th>Thickness / Weight</th>
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<td>✔</td>
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<td>ATG 2996 - CTG 500</td>
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<td>IKO carrara G</td>
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<td></td>
<td>T3</td>
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<td>F</td>
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<td>11316-15 (TL2)</td>
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<td>01562775</td>
<td>TA 0360/97 - SINTEF TA 20385</td>
<td>T2</td>
<td>GRW</td>
<td>F</td>
<td>5.5 kg/m²</td>
<td>✔ ✔</td>
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**IKO CARBON**

**Description:**
IKO CARBON is a waterproofing membrane composed of plastomer (APP) bitumen with fire-retardant properties and a polyester-glass composite inlay (Trilaminate). The upper surface is finished with black granulate and the lower surface is protected by a thermofusible film, always in combination with the Turbo burled profile. This top layer can be applied in a single or multi-layer system.

**Benefits:**
- Resistant to the incipient spread of fire - Broof(t4)
- Turbo finish, rapid installation and a perfect joint
- Flexible, even at low temperatures
- Aesthetic black finish
- Root resistant variant

<table>
<thead>
<tr>
<th>Description</th>
<th>Length</th>
<th>Product no.</th>
<th>Labels / Norms</th>
<th>Broof</th>
<th>Top finish</th>
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<th>Installation</th>
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<td>GRB</td>
<td>TURBO</td>
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<td>IKO carbon</td>
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<td>ATG 2323 - IAB 08/0316</td>
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<td>TURBO</td>
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* standard root resistant
IKO PANTERA

**Description:**
IKO PANTERA is a waterproofing membrane composed of elastomer (SBS) bitumen with fire-retardant properties and a polyester-glass composite inlay. 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-layer system.

**Benefits:**
- Resistant to the incipient spread of fire – Broof(t4)
- Excellent bonding and rapid installation
- Flexible at low temperatures
- Nice, aesthetic black finish

<table>
<thead>
<tr>
<th>Description</th>
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<td>F</td>
<td>4 mm</td>
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</table>
**IKO POWERGUM and IKO GUM**

**Description:**
**IKO POWERGUM** is a waterproofing membrane composed of plastomer (APP) bitumen with fire-retardant properties and a polyester-glass composite inlay. The upper surface is finished with dark slate or talc/sand and the lower surface is protected by a (macro-perforated) thermofusible film. This top layer can be applied in a single or multi-layer system.

**IKO GUM** is a waterproofing membrane composed of plastomer (APP) bitumen and a polyester-glass composite inlay. The upper surface is finished with sand, dark slate and the lower surface is protected by a thermofusible film. This top layer can be applied in a multi-layer system.

**Benefits:**
- Resistant to the incipient spread of fire
- Quadra variant with vapour pressure distributing ‘Diamond’ profile, ideal as a refurbishment layer
- MMP finish for torching or cold bonding

<table>
<thead>
<tr>
<th>Description</th>
<th>Length</th>
<th>Product no.</th>
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<td>T</td>
<td>MMP</td>
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<td>01526684</td>
<td>ATG 1337</td>
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<td>AD</td>
<td>MMP</td>
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<td>01516831</td>
<td>ATG 1337</td>
<td>T1</td>
<td>T</td>
<td>F</td>
<td>4 mm</td>
<td></td>
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<tr>
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<td>01526830</td>
<td>ATG 1337</td>
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<td>AD</td>
<td>F</td>
<td>4 mm</td>
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<tr>
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<td>ATG 2323</td>
<td>T2</td>
<td>AD</td>
<td>F</td>
<td>4 mm</td>
<td></td>
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<tr>
<td>IKO powergum 5 AD/F</td>
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<td>01520525</td>
<td>ATG 1337</td>
<td>T1</td>
<td>AD</td>
<td>F</td>
<td>5 mm</td>
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<td>01524525</td>
<td>-</td>
<td>T1</td>
<td>AD</td>
<td>F</td>
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<td>01520541</td>
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<td>AR</td>
<td>F</td>
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<td>ATG 1337</td>
<td>T1</td>
<td>T</td>
<td>F</td>
<td>4 mm</td>
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<tr>
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<td>AD</td>
<td>QUADRA</td>
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<td>AD</td>
<td>F</td>
<td>3.7 mm</td>
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* polyester-glass fibre fleece composite

**IKO GUM** is a waterproofing membrane composed of plastomer (APP) bitumen and a polyester-glass composite inlay. The upper surface is finished with sand, dark slate and the lower surface is protected by a thermofusible film. This top layer can be applied in a multi-layer system.

<table>
<thead>
<tr>
<th>Description</th>
<th>Length</th>
<th>Product no.</th>
<th>Broof</th>
<th>Top finish</th>
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<th>Weight</th>
<th>Installation</th>
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<tr>
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<td>-</td>
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<td>01514575</td>
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<td>T</td>
<td>F</td>
<td>4.5 kg/m²</td>
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<tr>
<td>IKO gum 4000 AD/F</td>
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<td>F</td>
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<td>3.5 kg/m²</td>
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<td>IKO gum 3500 T/F</td>
<td>6 m</td>
<td>01511621</td>
<td>-</td>
<td>T</td>
<td>F</td>
<td>3.5 kg/m²</td>
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IKO POWERFLEX

Description:
IKO POWERFLEX is a waterproofing membrane composed of elastomer (SBS) bitumen with or without fire-retardant properties and a polyester-glass composite inlay. The upper surface is finished with dark, light or white slate, black granulate or talc/sand and the lower...thermofusible film, by sand of is self-adhesive surface is protected by a thermofusible film, by sand of is self-adhesive. This top layer can be applied in a single or multi-layer system.

Benefits:
- Resistant to the incipient spread of fire
- Flexible at low temperatures
- Tecno variant with extra wide 12-cm overlap for mechanical fastening
- Stick variant, self-adhesive roll for working flame-free
- Quadra variant with vapour pressure distributing “Diamond” profile, ideal as a refurbishment layer

<table>
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<th>Bottom finish</th>
<th>Thickness / Weight</th>
<th>Installation</th>
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<tr>
<td>IKO powerflex 4 T/F ICE</td>
<td>8 m</td>
<td>01550407</td>
<td>-</td>
<td>-</td>
<td>T</td>
<td>F</td>
<td>4 mm</td>
<td></td>
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<tr>
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<td>01564091</td>
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<td>AD</td>
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<td>-</td>
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<td>01561744</td>
<td>-</td>
<td>T2</td>
<td>AD</td>
<td>F</td>
<td>4,2 mm</td>
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**IKO BASE QUADRA**

**Description:**
IKO BASE QUADRA is a waterproofing membrane composed of polymer bitumen and a polyester-glass composite inlay. The upper surface of this underlay is finished with sand or a thermofusible film and the vapour pressure distributing lower surface is protected by a thermofusible film or is self-adhesive.

**Benefits:**
- Vapour pressure distributing ‘Diamond’ profile in self-adhesive version, ideal for application on PIR insulation (SA) or with a thermofusible film as a multi-layer refurbishment system.
- Prevents blistering
- Rapid installation

<table>
<thead>
<tr>
<th>Description Length</th>
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<th>Top finish</th>
<th>Bottom finish</th>
<th>Thickness</th>
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<td>01570741</td>
<td>F</td>
<td>SA</td>
<td>2.5 mm</td>
<td></td>
</tr>
</tbody>
</table>

**IKO BASE TURBO**

**Description:**
IKO BASE TURBO is a waterproofing membrane composed of polymer bitumen and a polyester-glass composite inlay. The upper surface of this underlay is finished with sand or a thermofusible film and the lower surface is protected by sand or a thermofusible film. The thermofusible film is always in combination with the Turbo profile.

**Benefits:**
- Turbo finish, for more rapid installation and a perfect joint
- Turbo finish available on upper or lower surface
- Efficient gas consumption

<table>
<thead>
<tr>
<th>Description Length</th>
<th>Product no.</th>
<th>Top finish</th>
<th>Bottom finish</th>
<th>Thickness</th>
<th>Installation</th>
</tr>
</thead>
<tbody>
<tr>
<td>IKO base Turbo T/F</td>
<td>01533312</td>
<td>T</td>
<td>TURBO</td>
<td>3 mm</td>
<td></td>
</tr>
<tr>
<td>IKO base Turbo f/F</td>
<td>01512041</td>
<td>TURBO</td>
<td>T</td>
<td>3 mm</td>
<td></td>
</tr>
</tbody>
</table>
**IKO BASE TECNO**

**Description:**
IKO BASE TECNO is a waterproofing membrane composed of plastomer (APP), elastomer (SBS) or polymer bitumen and a polyester-glass composite inlay. The upper surface of this underlay is finished with a thermofusible film or sand and the lower surface is protected by sand or a polyester fleece, without bitumen coating.

**Benefits:**
- Available in different types of bitumen for an ideal combination with the top layer
- FL finish protects the underlying finish (EPS) to assure the compatibility with all types of bitumen waterproofing

**IKO BASE STICK**

**Description:**
IKO BASE STICK is a waterproofing membrane composed of plastomer (APP), elastomer (SBS) or polymer bitumen and a polyester-glass composite inlay or a glass grid inlay. The upper surface of this underlay is finished with sand or a thermofusible film and a self-adhesive lower surface.

**Benefits:**
- Self-adhesive across the entire surface for more rapid installation
- Available in different types of bitumen for an ideal combination with the top layer
- Can be installed as a vapour barrier on steel deck

<table>
<thead>
<tr>
<th>Description</th>
<th>Length</th>
<th>Labels / Norms</th>
<th>Product no.</th>
<th>Top finish</th>
<th>Bottom finish</th>
<th>Thickness</th>
<th>Installation</th>
</tr>
</thead>
<tbody>
<tr>
<td>IKO base Tecno F/T</td>
<td>10 m</td>
<td></td>
<td>01511041</td>
<td>F</td>
<td>T</td>
<td>2,6 mm</td>
<td></td>
</tr>
<tr>
<td>IKO base Tecno APP F/FL</td>
<td>10 m</td>
<td>FM</td>
<td>01511010</td>
<td>F</td>
<td>FL</td>
<td>2,4 mm</td>
<td></td>
</tr>
<tr>
<td>IKO base 460P60 EU</td>
<td>12 m</td>
<td></td>
<td>01510012</td>
<td>F</td>
<td>FL</td>
<td>2,2 mm</td>
<td></td>
</tr>
<tr>
<td>IKO base 360P60</td>
<td>12 m</td>
<td></td>
<td>01554011</td>
<td>F</td>
<td>FL</td>
<td>2 mm</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Description</th>
<th>Length / width</th>
<th>Product no.</th>
<th>Top finish</th>
<th>Bottom finish</th>
<th>Thickness</th>
<th>Installation</th>
</tr>
</thead>
<tbody>
<tr>
<td>IKO base Stick T/SA</td>
<td>15 m x 1.08 m</td>
<td>01570711</td>
<td>T</td>
<td>SA</td>
<td>2,5 mm</td>
<td></td>
</tr>
<tr>
<td>IKO base Stick SBS F/SA</td>
<td>10 m</td>
<td>01570791</td>
<td>F</td>
<td>SA</td>
<td>2,8 mm</td>
<td></td>
</tr>
<tr>
<td>IKO base Stick universeel</td>
<td>10 m</td>
<td>01252121</td>
<td>F</td>
<td>SA</td>
<td>2 mm</td>
<td></td>
</tr>
</tbody>
</table>
**IKO BASE P SBS**

**Description:**
*IKO BASE P SBS* is a waterproofing membrane composed of elastomer (SBS) bitumen and a polyester inlay. The upper surface of this underlay is finished with sand and the lower surface is protected by a thermofusible film or sand.

**Benefits:**
- Ideal in combination with SBS top layer, full bond
- High nail tear resistance
- Flexible at low temperatures
- Suitable as vapour barrier for indoor climate class III

**IKO BASE P**

**Description:**
*IKO BASE P* is a waterproofing membrane composed of polymer bitumen and a polyester inlay. The upper surface of this underlay is finished with sand or a thermofusible film, and the lower surface is protected by a thermofusible film or sand.

**Benefits:**
- High nail tear resistance
- Fit for walking on
- Very sturdy reinforced underlay
- Suitable as vapour barrier for indoor climate class III

<table>
<thead>
<tr>
<th>Description</th>
<th>Length</th>
<th>Product no.</th>
<th>Labels/ Norms</th>
<th>Top finish</th>
<th>Bottom finish</th>
<th>Thickness / Weight</th>
<th>Installation</th>
</tr>
</thead>
<tbody>
<tr>
<td>IKO base P3 SBS T/F</td>
<td>8 m</td>
<td>01554121</td>
<td>-</td>
<td>T</td>
<td>F</td>
<td>3 mm</td>
<td></td>
</tr>
<tr>
<td>IKO base P4 SBS T/F</td>
<td>10 m</td>
<td>01551021</td>
<td>-</td>
<td>T</td>
<td>F</td>
<td>4 mm</td>
<td></td>
</tr>
<tr>
<td>IKO base P2700 SBS T/T</td>
<td>16 m</td>
<td>01552711</td>
<td>T</td>
<td>T</td>
<td>2,7 kg/m²</td>
<td></td>
<td></td>
</tr>
<tr>
<td>IKO base P9000 SBS T/T NF</td>
<td>10 m</td>
<td>01553111 11316-15 (TL2) - SINTEF TA 20090</td>
<td>T</td>
<td>T</td>
<td>3 kg/m²</td>
<td></td>
<td></td>
</tr>
<tr>
<td>IKO base P9000 SBS T/F</td>
<td>10 m</td>
<td>01553121</td>
<td>T</td>
<td>F</td>
<td>3 kg/m²</td>
<td></td>
<td></td>
</tr>
<tr>
<td>IKO base P3000 SBS T/F N</td>
<td>10 m</td>
<td>01553021 - SINTEF TA 200920</td>
<td>T</td>
<td>F</td>
<td>3 kg/m²</td>
<td></td>
<td></td>
</tr>
<tr>
<td>IKO base P9000 SBS T/T NF</td>
<td>10 m</td>
<td>01553041 11316-15 (TL2) - SINTEF TA 20090</td>
<td>T</td>
<td>F</td>
<td>3 kg/m²</td>
<td></td>
<td></td>
</tr>
<tr>
<td>IKO base P3200 SBS T/F</td>
<td>10 m</td>
<td>01553221 11316-15 (TL3)</td>
<td>T</td>
<td>F</td>
<td>3,2 kg/m²</td>
<td></td>
<td></td>
</tr>
<tr>
<td>IKO base P3200 SBS T/F</td>
<td>10 m</td>
<td>01550921</td>
<td>T</td>
<td>F</td>
<td>3,2 kg/m²</td>
<td></td>
<td></td>
</tr>
<tr>
<td>IKO base P4000 SBS T/F F</td>
<td>8 m</td>
<td>01554021 11316-15 (TL2)</td>
<td>T</td>
<td>F</td>
<td>4 kg/m²</td>
<td></td>
<td></td>
</tr>
<tr>
<td>IKO base P4000 SBS T/F F EU</td>
<td>8 m</td>
<td>01554024 11316-15 (TL2)</td>
<td>T</td>
<td>F</td>
<td>4 kg/m²</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### IKO BASE V APP

**Description:**
IKO BASE V APP is a waterproofing membrane composed of plastomer (APP) bitumen and a glass fibre fleece inlay. The upper surface of this underlay is finished with sand and the lower surface is protected by a thermofusible film.

**Benefits:**
- Ideal in combination with APP top layer, full bond
- Dimensionally stable, very little contraction
- Suitable as vapour barrier for indoor climate class III

### IKO BASE V

**Description:**
IKO BASE V is a waterproofing membrane composed of polymer bitumen and a glass fibre fleece inlay. The upper surface of this underlay is finished with sand and the lower surface is protected by a thermofusible film or sand.

**Benefits:**
- Dimensionally stable, very little contraction
- Suitable as vapour barrier for indoor climate class III
- Good quality-price ratio

<table>
<thead>
<tr>
<th>Description</th>
<th>Length</th>
<th>Product no.</th>
<th>Labels/Norms</th>
<th>Top finish</th>
<th>Bottom finish</th>
<th>Thickness/Weight</th>
<th>Installation</th>
</tr>
</thead>
<tbody>
<tr>
<td>IKO base V3 T/F FM</td>
<td>10 m</td>
<td>01212621</td>
<td>FM</td>
<td>T</td>
<td>F</td>
<td>3 mm</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Description</th>
<th>Length</th>
<th>Product no.</th>
<th>Labels/Norms</th>
<th>Top finish</th>
<th>Bottom finish</th>
<th>Thickness/Weight</th>
<th>Installation</th>
</tr>
</thead>
<tbody>
<tr>
<td>IKO base V3 T/T</td>
<td>10 m</td>
<td>01211311</td>
<td></td>
<td>T</td>
<td>T</td>
<td>3 mm</td>
<td></td>
</tr>
<tr>
<td>IKO base V3 F/F</td>
<td>10 m</td>
<td>01212000</td>
<td></td>
<td>F</td>
<td>F</td>
<td>3 mm</td>
<td></td>
</tr>
<tr>
<td>IKO base V4 T/F</td>
<td>10 m</td>
<td>01212412</td>
<td></td>
<td>T</td>
<td>F</td>
<td>4 mm</td>
<td></td>
</tr>
<tr>
<td>IKO base V4 F/F</td>
<td>10 m</td>
<td>01212421</td>
<td></td>
<td>F</td>
<td>T</td>
<td>4 mm</td>
<td></td>
</tr>
</tbody>
</table>
IKO SHIELD EN IKO SHIELD SA

Description:

IKO SHIELD is a vapour barrier composed of polymer bitumen and an ALU-glass fibre fleece composite inlay. The upper surface is finished with sand and the lower surface is protected by a thermofusible film.

IKO SHIELD SA is a vapour barrier composed of elastomer (SBS) bitumen and a glass fibre thread or polyester-glass composite inlay. The upper surface is finished with ALU foil and the lower surface is self-adhesive.

Benefits:

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

<table>
<thead>
<tr>
<th>Description</th>
<th>Length/width</th>
<th>Product no.</th>
<th>Labels/Norms</th>
<th>Top finish</th>
<th>Bottom finish</th>
<th>Thickness</th>
<th>Installation</th>
</tr>
</thead>
<tbody>
<tr>
<td>IKO shield ALU/SA</td>
<td>50 m x 1.08 m</td>
<td>01570256</td>
<td>DIN18234</td>
<td>ALU</td>
<td>SA</td>
<td>0,25 mm</td>
<td></td>
</tr>
<tr>
<td>IKO shield PLUS ALU/SA</td>
<td>25 m x 1.08 m</td>
<td>01570156</td>
<td>-</td>
<td>ALU</td>
<td>SA</td>
<td>0,6 mm</td>
<td></td>
</tr>
<tr>
<td>IKO shield PRO ALU/SA</td>
<td>20 m x 1.08 m</td>
<td>01570356</td>
<td>-</td>
<td>ALU</td>
<td>SA</td>
<td>1,8 mm</td>
<td></td>
</tr>
<tr>
<td>IKO shield ALU3 T/F</td>
<td>10 m</td>
<td>01610814</td>
<td></td>
<td>T</td>
<td>F</td>
<td>3 mm</td>
<td></td>
</tr>
<tr>
<td>IKO shield ALU4 T/F</td>
<td>5 m</td>
<td>01610818</td>
<td></td>
<td>T</td>
<td>F</td>
<td>4 mm</td>
<td></td>
</tr>
</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.

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.
IKO POLYBRIDGE

Description:
IKO POLYBRIDGE is a waterproofing membrane composed of plastomer (APP) bitumen and a polyester-glass fibre fleece composite inlay. The upper surface is finished with talc and the lower surface is protected by a thermofusible film.

IKO polybridge, when combined with protection consisting of mastic asphalt or road asphalt, offers an adequate solution to fit car park roofs, bridge decks and tunnels with a bonded waterproofing system that is passable immediately after installation.

Benefits:
- Allows direct application of mastic asphalt at an installation temperature of about 250°C and of road asphalt at a temperature between 160 and 220°C
- Ensures a good bond between the membrane and the mastic asphalt
- Good adhesion of the membrane to the concrete substrate

<table>
<thead>
<tr>
<th>Description</th>
<th>Length</th>
<th>Labels/ Norms</th>
<th>Product no.</th>
<th>Top finish</th>
<th>Bottom finish</th>
<th>Thickness</th>
</tr>
</thead>
<tbody>
<tr>
<td>IKO polybridge 4 T/F</td>
<td>11 m</td>
<td>ATG 2936</td>
<td>01516911</td>
<td>T</td>
<td>F</td>
<td>4 mm</td>
</tr>
<tr>
<td>IKO polybridge 5 T/F</td>
<td>10 m</td>
<td>ATG 2936</td>
<td>01516915</td>
<td>T</td>
<td>F</td>
<td>5 mm</td>
</tr>
</tbody>
</table>
IKO ROOFGARDEN

**Description:**
IKO ROOFGARDEN is a waterproofing membrane composed of plastomer (APP) or elastomer (SBS) bitumen with root resistant additives and a polyester-glass composite fleece inlay. The upper side is finished with sand or a dark slate and the lower surface is protected by a thermofusible film. This top layer can be applied in a multi-layer system for green roofs.

**Benefits:**
- Root resistant
- Consists of two layers for maximum security
- Can be compartmentalised for easy leak detection
- High punch resistance offers protection during construction of the garden

<table>
<thead>
<tr>
<th>Description</th>
<th>Length</th>
<th>Labels / Norms</th>
<th>Product no.</th>
<th>Proof</th>
<th>Top finish</th>
<th>Bottom finish</th>
<th>Thickness</th>
<th>Installation</th>
</tr>
</thead>
<tbody>
<tr>
<td>IKO roofgarden 4 APP AD/F</td>
<td>7.5 m</td>
<td>-</td>
<td>01520321</td>
<td>T1</td>
<td>AD</td>
<td>F</td>
<td>4 mm</td>
<td></td>
</tr>
<tr>
<td>IKO roofgarden 4 APP T/F</td>
<td>7.5 m</td>
<td>CTG 028 - IA8 08/0316</td>
<td>01510321</td>
<td>-</td>
<td>T</td>
<td>F</td>
<td>4 mm</td>
<td></td>
</tr>
<tr>
<td>IKO roofgarden 4 SBS T/F</td>
<td>7.5 m</td>
<td>-</td>
<td>01550421</td>
<td>-</td>
<td>T</td>
<td>F</td>
<td>4 mm</td>
<td></td>
</tr>
<tr>
<td>IKO roofgarden 4 SBS AD/F</td>
<td>7.5 m</td>
<td>-</td>
<td>01564121</td>
<td>T1</td>
<td>AD</td>
<td>F</td>
<td>4 mm</td>
<td></td>
</tr>
<tr>
<td>IKO roofgarden 5 APP AD/F G</td>
<td>5 m</td>
<td>-</td>
<td>01520521</td>
<td>T1</td>
<td>AD</td>
<td>F</td>
<td>5 mm</td>
<td></td>
</tr>
<tr>
<td>IKO roofgarden 5 APP AR/F G</td>
<td>5 m</td>
<td>-</td>
<td>01520581</td>
<td>T1</td>
<td>AR</td>
<td>F</td>
<td>5 mm</td>
<td></td>
</tr>
</tbody>
</table>
IKO ROOF SYSTEMS

IKO recommends bitumen as the perfect roof covering for flat roofs. These roof membranes are one of the most appropriate technologies to achieve perfectly watertight and sustainable results.

- Long life-span
- Extra strong
- Climate resistance
- Aesthetics
- Grey water recycling

From top to bottom an IKO roof is completely manufactured and supplied by IKO itself. All IKO products can be seamlessly combined and ensure perfect waterproofing solutions for flat roofs.

IKO has bituminous roofing solutions for every type of work, substrate and installation.

- **Work:** new build or refurbishment
- **Substrate:** concrete, wood or steel deck
- **Installation:** torch-on, cold bonding, mechanical fastening.
**ROOF STRUCTURES**

**- NEW BUILD**  
**- CONCRETE**  
**- BONDED SYSTEM**

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

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

**UNDERLAY**
- IKO base quadra T/SA  
- IKO base quadra F/SA  
- IKO base quadra T/F at temperature < 5°C

**FASTENING OF UNDERLAY**
- Pull away release foil + press  
- Partially welded at temperature < 5°C

**INSULATION**
- IKO enertherm ALU  
- IKO enertherm BM at temperature < 5°C with bitumen side facing up

**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

---

**- NEW BUILD**  
**- CONCRETE**  
**- LOOSELY LAID AND BALLASTED SYSTEM**

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

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

**UNDERLAY**
- IKO base turbo F/T  
- IKO base quadra T/SA  
- IKO base quadra F/SA  
- IKO base quadra T/F at temperature < 5°C

**FASTENING OF UNDERLAY**
- Pull away release foil + press  
- Partially welded at temperature < 5°C

**INSULATION**
- IKO enertherm ALU  
- IKO enertherm BM at temperature < 5°C with bitumen side facing up

**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**
- Loosely laid

**SUBSTRATE**
- Concrete

---

**- NEW BUILD**  
**- CONCRETE**  
**- GREEN ROOF**

**CAP SHEET**
- IKO carbon 250  
- IKO roofgarden

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

**UNDERLAY**
- IKO base quadra T/SA  
- IKO base quadra F/SA  
- IKO base quadra T/F at temperature < 5°C

**FASTENING OF UNDERLAY**
- Pull away release foil + press  
- Partially welded at temperature < 5°C

**INSULATION**
- IKO enertherm ALU  
- IKO enertherm BM at temperature < 5°C with bitumen side facing up

**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

---

*These roof systems are a schematic representation, not exhaustive. Always consult your IKO specialist.*
- NEW BUILD
- WOOD
- BONDED SYSTEM

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

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

**UNDERLAY**
IKO base quadra T/SA
IKO base quadra F/SA
IKO base quadra T/F at temperature < 5°C

**FASTENING OF UNDERLAY**
Pull away release foil + press
Partially welded at temperature < 5°C

**INSULATION**
IKO enertherm ALU
IKO enertherm BM at temperature < 5°C with bitumen side facing up

**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

---

- NEW BUILD
- WOOD
- MECHANICALLY FASTENED INSULATION

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

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

**UNDERLAY**
IKO base quadra T/SA
IKO base quadra F/SA
IKO base quadra T/F at temperature < 5°C

**FASTENING OF UNDERLAY**
Pull away release foil + press
Partially welded at temperature < 5°C

**INSULATION**
IKO enertherm BM with mineral side facing up

**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

---

- NEW BUILD
- WOOD
- SINGLE-LAYER COLD BONDED

**CAP SHEET**
IKO powergum 4 T/MMP
IKO powergum 4 AD/MMP

**FASTENING OF CAP SHEET**
Fully bonded with cold adhesive IKO pro

**UNDERLAY**
N/A

**FASTENING OF UNDERLAY**
N/A

**INSULATION**
IKO enertherm BM with mineral side facing up

**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

N/A = not applicable
These roof systems are a schematic representation, not exhaustive. Always consult your IKO specialist.
**- NEW BUILD - STEEL DECK - MECHANICALLY FASTENED INSULATION AND UNDERLAY**

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

**BEVESTIGING TOPLAAG**
Fully bonded by torching

**UNDERLAY**
- IKO base P3
- IKO base Turbo

**FASTENING OF UNDERLAY**
Mechanically fastened

**INSULATION**
- IKO enertherm ALU

**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**
- Pull away release foil + press

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**- REFURBISHMENT - WITH INSULATION - BONDED SYSTEM**

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

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

**UNDERLAY**
- IKO base quadra T/SA
- IKO base quadra F/SA
- IKO base quadra T/F at temperature < 5°C

**FASTENING OF UNDERLAY**
- Pull away release foil + press
- Partially welded at temperature < 5°C

**INSULATION**
- IKO enertherm ALU

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

**VAPOUR BARRIER**
- Old roof covering

**FASTENING OF VAPOUR BARRIER**
- Check the wind stability if bonded

**SUBSTRATE**
- Old roof covering

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**- REFURBISHMENT - WITHOUT INSULATION - PARTIALLY TORCHED SYSTEM**

**CAP SHEET**
- IKO carrara quadra
- IKO powergum quadra AD

**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**
- N/A

**SUBSTRATE**
- Old bitumen roof covering + IKO pro quickprimer or ECO primer

N/A = not applicable
LEGEND

CAP SHEET FINISH:
GRW → White granulate
GRB → Black granulate
T → Talc/sand
AD → Dark slate
AR → Light slate
AW → White slate
F → Full-surface thermofusible film
ALU → Aluminium foil

REINFORCEMENT:
V → Glass fibre fleece reinforcement
P → Polyester reinforcement
ALU → Aluminium reinforcement

ROLL QUALITIES:
Turbo → quick welding roll
Quadra → vapour pressure distributing roll
Tecno → roll for mechanical fastening

BOTTOM FINISH:
F → Full-surface thermofusible film
QUADRA → 'Diamond' profile
TURBO → Burled profile
MMP → Perforated polyethylene thermofusible film
SA → Siliconized, white release foil, self-adhesive
T → Talc/sand
FL → Naked polyester fleece

INSTALLATION
Torch-on
Cold bonding
Mechanical fastening
Self-adhesive

ROOF STRUCTURES
Cap sheet
Underlay
Insulation layer
Vapour barrier