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## Nuraply Aluminium Vapour Barrier

*IKO shield PLUS ALU/SA*

### TECHNICAL DATA SHEET

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#### DESCRIPTION AND AREAS OF USE

Roofing membrane with glass fibre reinforcement, topside finished with polyester reinforced aluminium foil and under-side coated with self-adhesive SBS modified bitumen.

The combination of glass fibre reinforcement and aluminium finish layers ensures a dimension-stable, accessible roofing membrane, which facilitates stepping on metal deck during operation.

- The bottom side is coated with self-adhesive, SBS modified bitumen, which guarantees an immediate and high adhesion strength to the substrate surface.
- The top is finished with a polyester reinforced aluminium foil.
- The bottom side is finished with a removable silicon foil.

#### APPLICATION

Self-adhesive vapour barrier on metal deck, accessible during operation.  
Also as vapour barrier on fully substrate substructures, if it is dry, dust and fat free.  
Nuraply Aluminium Vapour Barrier is applicable as vapour barrier for roofing systems in buildings with high humidity conditions (Inner climate: class IV).

#### COMPOSITION

Type of bitumen:	Elastomeric
Upper surface finish:	ALU
Inlay:	Glass fibre threads
Lower surface finish:	Self-adhesive bitumen with anti-stick film

#### TECHNICAL CHARACTERISTICS (EN 13707)

Tensile strength L (EN 12311-1 MDV N/50 MM $\pm$ 20%)	800
Tensile strength T (EN 12311-1 MDV N/50 MM $\pm$ 20%)	700
Elongation L (EN 12311-1 MDV % $\pm$ 15% abs.)	NPD
Elongation B (EN 12311-1 MDV % $\pm$ 15% abs.)	NPD
Nail tear resistance (EN 12310-1 MDV N Only MF)	$\geq$ 200
Flexibility at low temperature (EN 1109 MLV °C Surface/Bottom)	$\leq$ -20
Flow temperature (EN 1110)	NPD
Shear resistance (EN 12317-1 MDV N/50 mm)	NPD
Dimensional stability (EN 1107-1 MLV)	NPD
Fire resistance	NPD

Vapour diffusion resistance ( $\mu$ d)	$\geq 1500$ m
Root resistance (EN 13948)	-

## DIMENSIONS

- Thickness: 0.6 mm
- Length: 25 m
- Width: 1,08 m
- Weight:  $\pm 20$  kg
- Packaging: 30 rolls per pallet

## APPLICATION

Nuraply Aluminium Vapour Barrier is applied as a vapour barrier in buildings with inner climates till class IV. The substrate should be smooth, dry, clean, fat- and dust free. All substrates, with exception of pre-coated metal deck, needs to be coated with bitumen primer IKOpro SA Primer (Nuraflux QD). In case of application on metal deck the membrane shall be placed parallel on to the corrugations, as to position the side laps supported on the metal deck, and have the ability to rightly pressure it.

The first membrane is unrolled and lined out and rolled up again till approximately half the length of the strip. The remove-able silicon foil should be cut in cross direction and pulled up in one time while unrolling the membrane. This way, the self-adhesive underside will get in direct contact with the substrate and stick immediately. The same procedure should be repeated for the other end of the roll. The next membrane Nuraply Aluminium Vapour Barrier is applied in the same way with a side lap of 8 cm and an end lap of minimum 10 cm. Overlaps are to be pressured with a medium hard pressure roller.

The isolation is applied by bonding with IKOpro PU-Roof Adhesive or mechanically fixing with thermal break flanges and fasteners direct on to the aluminium facing of the Nuraply Aluminium Vapour Barrier.

Insulation types admitted: Mineral wool, EPS without facing, glass fibre faced PUR, PIR and PF (NOT: with talc/sand finished bituminized facing at the underside).

Temperature in application  $\geq 10^{\circ}$  C.

In case of application during colder periods the material should be stored at least 12 hours before application in an ambient temperature of  $\geq 10^{\circ}$  C.

Attention: Finish the roofing system every working day until at least 1 watertight layer on the insulation material in order to protect the aluminium foil of the Nuraply Aluminium Vapour Barrier against thermal shocks.

## SAFETY, STORAGE & HANDLING INFORMATION

Do not pile pallets

Store indoors, preferably in dark room; avoid direct sunlight

Apply as quickly as possible after production

Pot-life: depending on circumstances: ideally in dark room at 10 to 20°C, maximum 6 months.

ATAB herewith declares that the following product is in conformity with the provisions of the following EC Directive(s) when installed in accordance with the installation instructions contained in the product documentation:

89/106/EEC Construction Products Directive

EN 13707: Flexible sheets for waterproofing-Reinforced bitumen sheets for roof waterproofing

*The information in this product data sheet is based on our experience and testing. It represents the latest information available at the time of printing, but no guarantee of its accuracy is made or implied, nor responsibility taken for use to which this information may be put. We reserve the right to alter or up-date information parameters and formulations at any time without notice.*