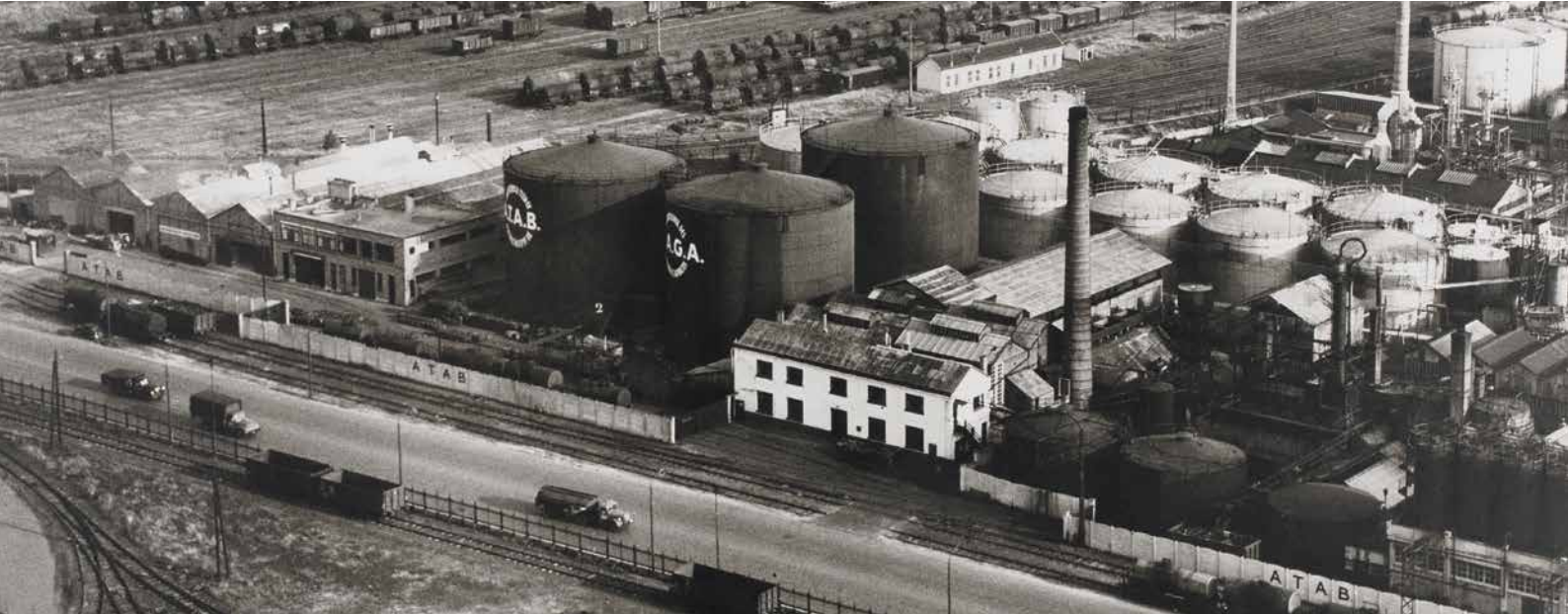


## Expected service life of IKO Powergum Atelia roofing membranes



### History

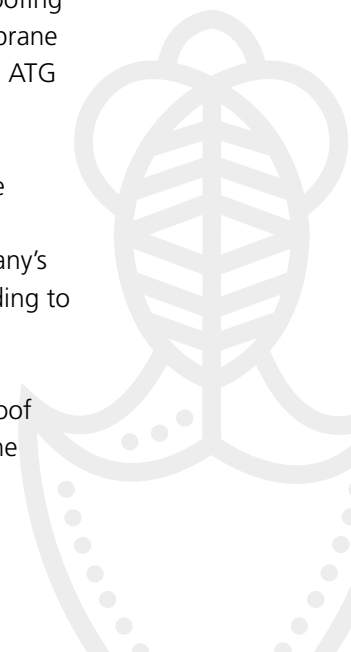
IKO, Atab and Nebiprofa

The company 'Antwerpsche Asphaltfabrieken' was established in Antwerp in August 1911. The products were initially used for application in the company's own operations: roofing contractor work and the asphaltting of roads and infrastructure works. Its first own product was an insulation board with jute reinforcement, branded under the name "Vulkaan". The company grew steadily and in 1941 it merged with the Dutch 'Wassenaar' and "NV Creosole" to become the Antwerps Teer & Asphaltbedrijf, or Atab.

In 1978, it introduced the Polygum roofing membrane, an APP modified bituminous roofing membrane reinforced with a non-woven polyester fabric. When the APP roofing membrane was further developed to the Polygum roofing membrane, it gained technical approval ATG 1337, which is the oldest, uninterrupted ATG to date!

Since 2000 the company has been part of Canadian IKO. Atab has since then been the European head office and knowledge centre of the IKO Group. The Dutch Nebiprofa, "Nederlandsche Bitumenproducten Fabrieken" was also taken over by IKO. The company's long experience and know-how enables it to continue to play a leading role in responding to the changing climatic, functional and also social requirements of roofs.

CEO Dirk Theuns stresses that IKO has, over the past decades, developed into a total roof provider. "Rather than dwelling on the company's past, we are explicitly focusing on the future. Our conclusion is clear: IKO has a sustainable future."





Over the years, the company has considerably expanded its activities with the introduction of systems for green roofs, solar energy, reflective roofing membranes, plastic roof coverings and the PIR hard foam board, IKO enertherm, produced in Klundert.

Today, the demand for circular construction is greater than ever. The IKO Atelia circular roofing systems perfectly meet this demand. All these systems consist of premium materials that are fully removable at the end of the service life of the roofing system.

The bitumen APP roofing membranes used in the IKO Atelia systems consist for the most part of secondary raw materials, fully recyclable into (secondary) raw material for new roofing membranes, and have a service life of at least 35 years. This is confirmed by independent studies carried out by the BDA group (Bureau Dak Advies) and recently by EWA (European Waterproofing Association).

These studies are briefly summarised below. The full reports can of course be downloaded at any time.







## Study of the long-term behaviour of Polygum APP roofs in practice

### Overview

Order No.: 08-B-0035 Ref.: AFVDH/JB

- APP DURABILITY REPORT
- CONCLUSIONS BDA DAKADVIES BV
- PROVEN DURABILITY: 35 YEARS

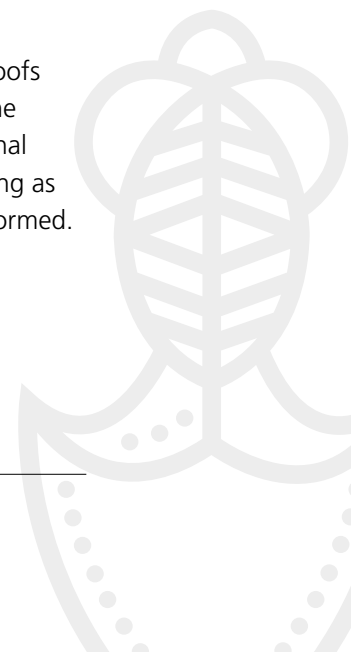
On behalf of IKO (the former ATAB N.V., Antwerp), the BDA Group carried out a study into the long-term behaviour of APP roofs in practice. The purpose of this study (which had been carried out already in 2002) was to establish the expected service life of APP roofing system by re-examining a number of roofs and comparing the results.

The overall impression of the examined roofs is good. This means that none of these roofs requires major maintenance in the short term. Based on this study, the service life of the examined APP roofs which were all installed with the expertise of a qualified professional - as recommended and verified by the manufacturer - is generally expected to be as long as 30 to 35 years, depending on the substrate and assuming regular maintenance is performed.

Gorinchem, 01.07.2009  
BDA Dakadvies BV  
Prof. Eng. N.A. Hendriks  
A.F. van den Hout

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**Note:** The above is a summary of the BDA study which can also be downloaded in its entirety.





## EWA – European Waterproofing Association

Evaluation of the durability of bitumen waterproofing

final version 2021-02-19

### **EWA Durability of bitumen waterproofing – final version 2021-02-19**

#### *Summary*

Under normal application, design and maintenance conditions, a service life of more than 35 years can be expected and is generally accepted by the certification bodies for roofs with modified bitumen membranes.

The roofs can be renovated by a new layer of modified bitumen sheet bonded to the existing roof, so in practice the roof can last significantly longer. It is realistic to renovate the roofs 1 or 2 times without removing the old roofing, so the working life can be extended to more than 105 years with one or two renovations.

The 30 years' service life of such reinforced elastomeric or plastomeric bitumen roofing systems for roof waterproofing, which is commonly used by approval bodies and institutes, can be considered a conservative evaluation of the expected service life.

The increase in service life achieved over the past 40 years is the result of improvements in the products, workmanship, design, and a greater focus on maintenance.

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**Noot:** The above is a summary of the EWA report, the English version of which can also be downloaded in its entirety. The full version contains definitions, detailed descriptions, conclusions and justification as well as the sources used for compiling the report and this summary.