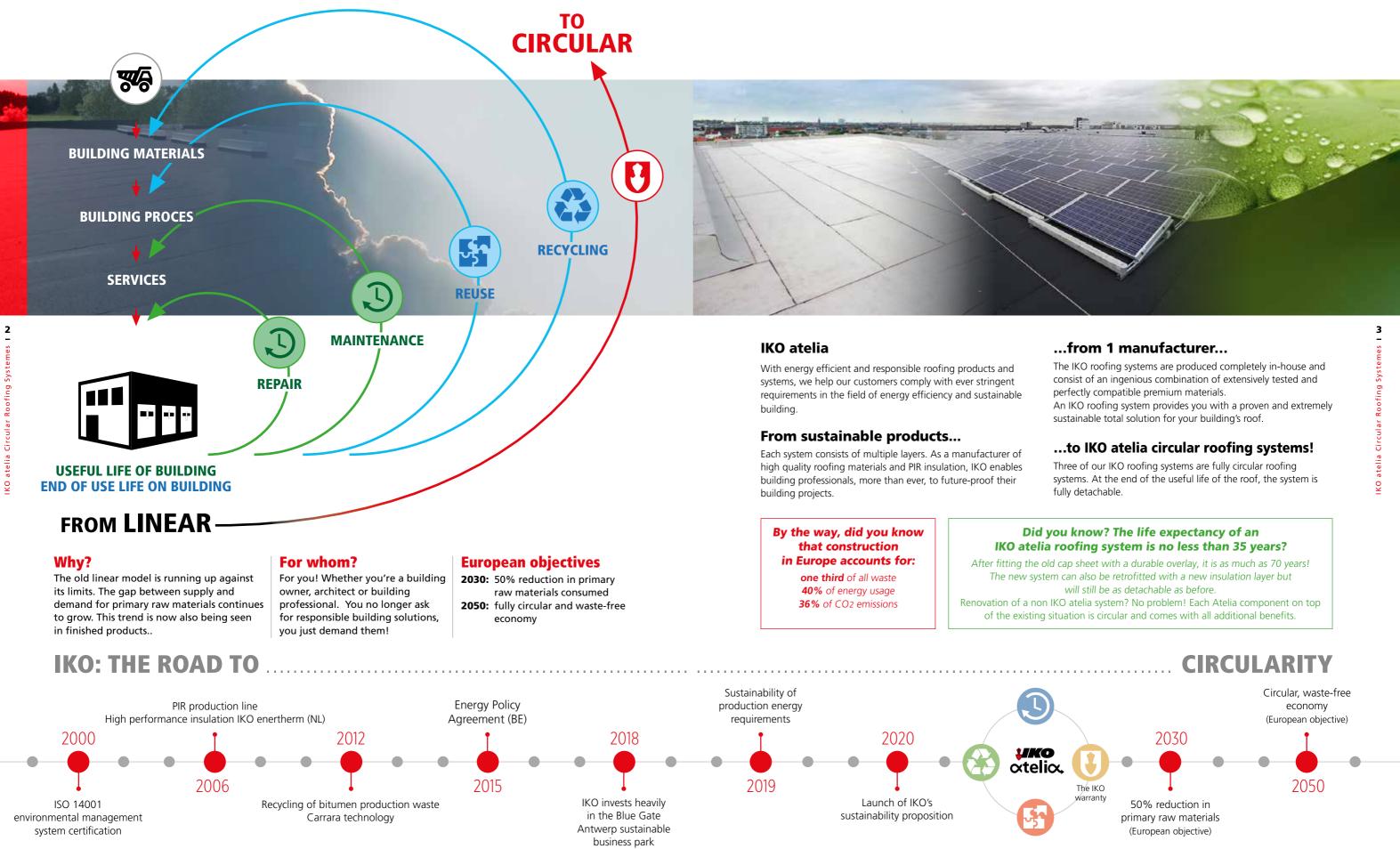
CIRCULAR ROOFING SYSTEMS



Circularity in the building process





4 Circular IKO principles



1 CIRCULAR SYSTEM DESIGN

Each roof has a second life. The IKO atelia circular roofs are suitable for reuse and recycling. In short, urban mining^(*) at its best.

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We have made sure that the criteria to be met by a circular roofing system are incorporated into all IKO atelia circular roofing systems. It starts, of course, with the base. The system as a whole is made up so that at the end of its useful life it can be removed without the individual components being contaminated with parts or residues of the other materials used.

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During its useful life the IKO atelia roofing system also contributes to a cleaner world. With bitumen, reuse of rainwater is perfectly safe. If a white roof covering with a high SRI value is applied, such as IKO carrara, energy usage in the building is reduced due to the cooling effect of the roof. Roof-mounted installations also deliver a higher efficiency. The bituminous cap sheet of an IKO atelia system, both in a single and a two-ply system or even with an overlay on top of it, can be easily separated from the underlying IKO enertherm Atelia insulation material. The also applies to the vapour barrier layer that is an integral part of the IKO atelia circular roofing system. The bitumen that is recovered can always be used as secondary raw material for new bitumen roofing materials.

This process will repeat itself again and again, so that bitumen is infinitely recyclable.

The IKO enertherm Atelia PIR insulation that is recovered at the end of the service life has retained all its characteristics and is fully reusable for various new insulation applications. Here, too, no waste stream is generated at the end of the roof's service life.

The lambda value of 0.021 W/(m.K) of IKO enertherm Atelia PIR insulation allows for a slimmer construction that still meets the efficiency requirements.

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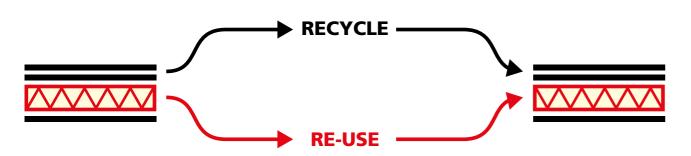
LAMBDA 21 = thinner insulation = slim construction = less transport = less CO₂ emissions

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In this way, your building will throughout its lifespan serve as a raw material warehouse for the future. This is known as urban mining

* Urban Mining is the recycling of precious raw materials from urban waste It is an essential component of the circular economy, in efforts to prevent the depletion of natural resources and to control global warmin





with a maximum share of secondary raw materials.

Each roofing system, whether detachable or not, is composed of individual components. That is exactly the essence of circular design. Each individual component of an IKO atelia roofing system is designed with circularity in mind.

IKO places particular R&D focus on further increasing the share of secondary raw materials from which the products are made. This is a continuous process in which the balance between quality, processability of the products, and the maximum feasible share of secondary raw materials is monitored. Our ambition is to continually increase the share of secondary raw materials while ensuring full compliance with our high quality requirements.

Many of the IKO atelia bitumen products already consists of at least 20% of secondary raw materials. Our primary goal here is to minimise the use of primary raw materials in the IKO atelia bitumen products.

All the information and documentation you need for your circular Atelia project can be found on our IKO atelia website: atelia.iko.com





The different layers of the IKO atelia circular roofing systems are made **NEW BITUMEN** SECUNDARY BITUMEN **RAW MATERIAL** RESIDUES GRINDING Ko carra



3 MAXIMUM SERVICE LIFE

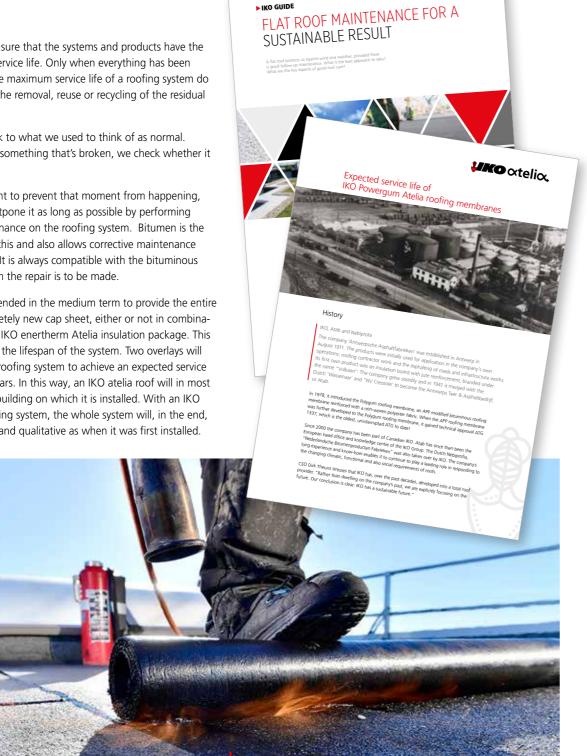
Postponing end-of-life through periodic maintenance.

It is essential to ensure that the systems and products have the longest possible service life. Only when everything has been done to ensure the maximum service life of a roofing system do we proceed with the removal, reuse or recycling of the residual materials.

We are going back to what we used to think of as normal. "Before replacing something that's broken, we check whether it can be repaired."

First of all, we want to prevent that moment from happening, or in any case postpone it as long as possible by performing preventive maintenance on the roofing system. Bitumen is the ideal material for this and also allows corrective maintenance to be carried out. It is always compatible with the bituminous substrate on which the repair is to be made.

It is even recommended in the medium term to provide the entire roof with a completely new cap sheet, either or not in combination with an extra IKO enertherm Atelia insulation package. This will simply double the lifespan of the system. Two overlays will enable the Atelia roofing system to achieve an expected service life of over 100 years. In this way, an IKO atelia roof will in most cases survive the building on which it is installed. With an IKO atelia circular roofing system, the whole system will, in the end, be just as circular and qualitative as when it was first installed.



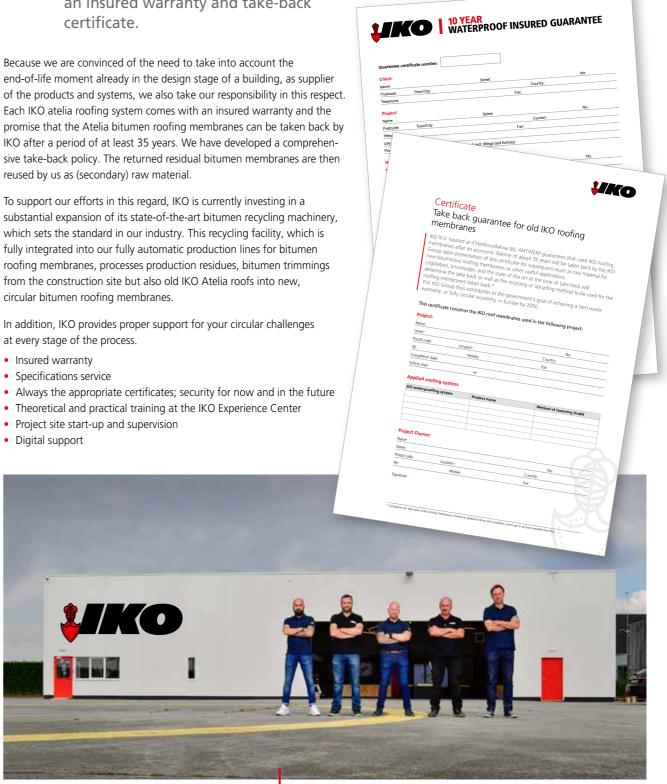
▶ IKO GUIDE

With an overlay the 35-year minimum lifespan of an IKO atelia roof is simply doubled.

4 THE IKO WARRANTY

IKO supplies circular roofing systems with an insured warranty and take-back certificate.

at every stage of the process.

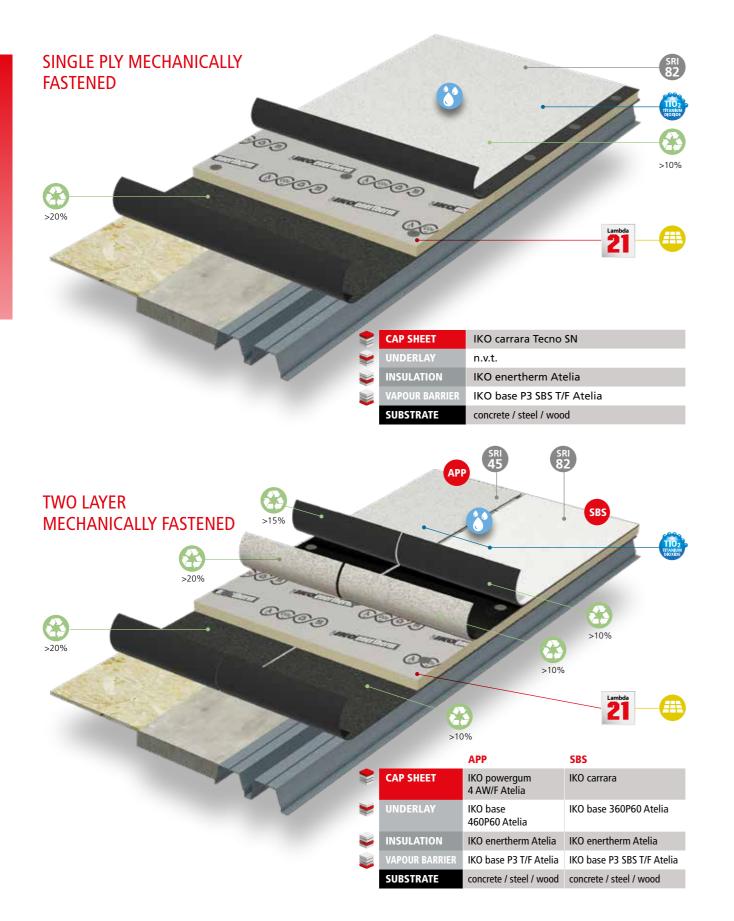


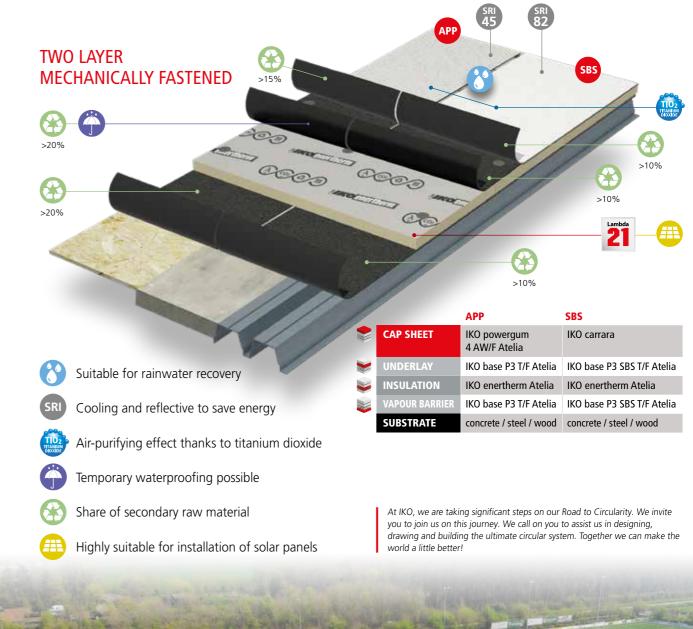
The IKO Experience Center offers tailor-made training services. You will learn how an IKO atelia circular roofing system is installed and detached in theory and in practice.

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IKO atelia **CIRCULAR ROOFING SYSTEMS**

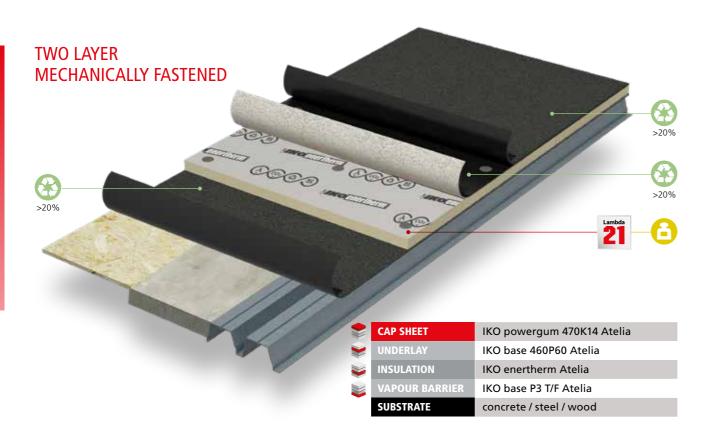


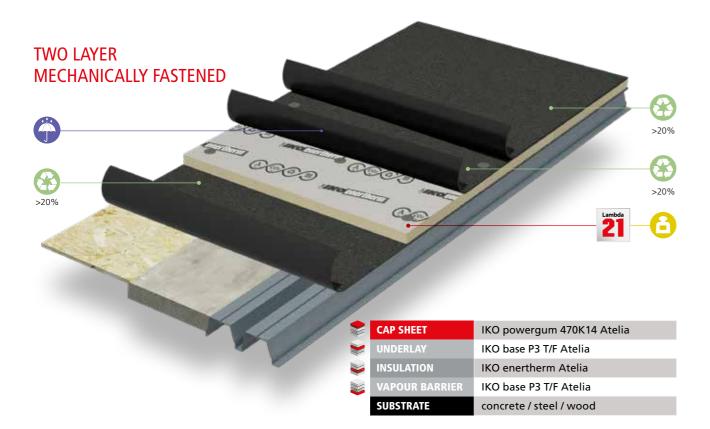


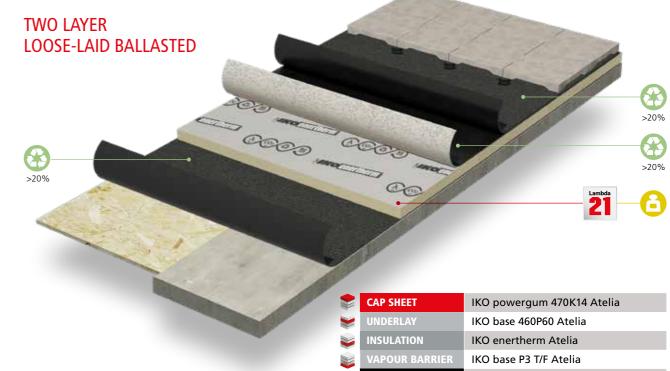


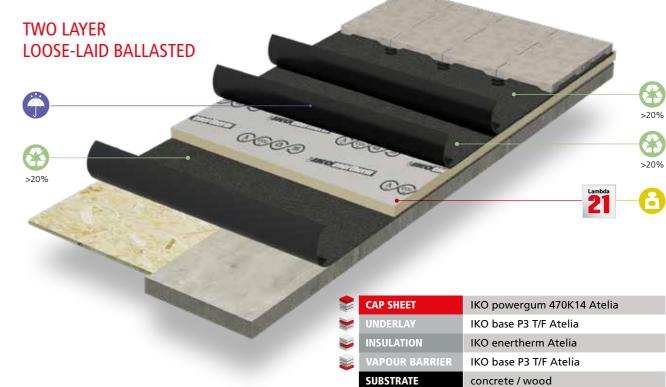
UKO atelia,

IKO atelia **CIRCULAR ROOFING SYSTEMS**









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A	CAP SHEET	IKO powergum 470K14 Atelia
4	UNDERLAY	IKO base 460P60 Atelia
	INSULATION	IKO enertherm Atelia
16	VAPOUR BARRIER	IKO base P3 T/F Atelia
	SUBSTRATE	concrete / wood

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IKO is a leading manufacturer of roofing, insulation and liquid waterproofing solutions. With its head office located in Toronto, Canada and over 30 factories and 4500 employees worldwide, IKO is a truly global player.





ROOFING | WATERPROOFING | INSULATION

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