



# Sustainability

## Roofing

## Your Guide to Sustainable Roofing



# Your Guide to Sustainable Roofing

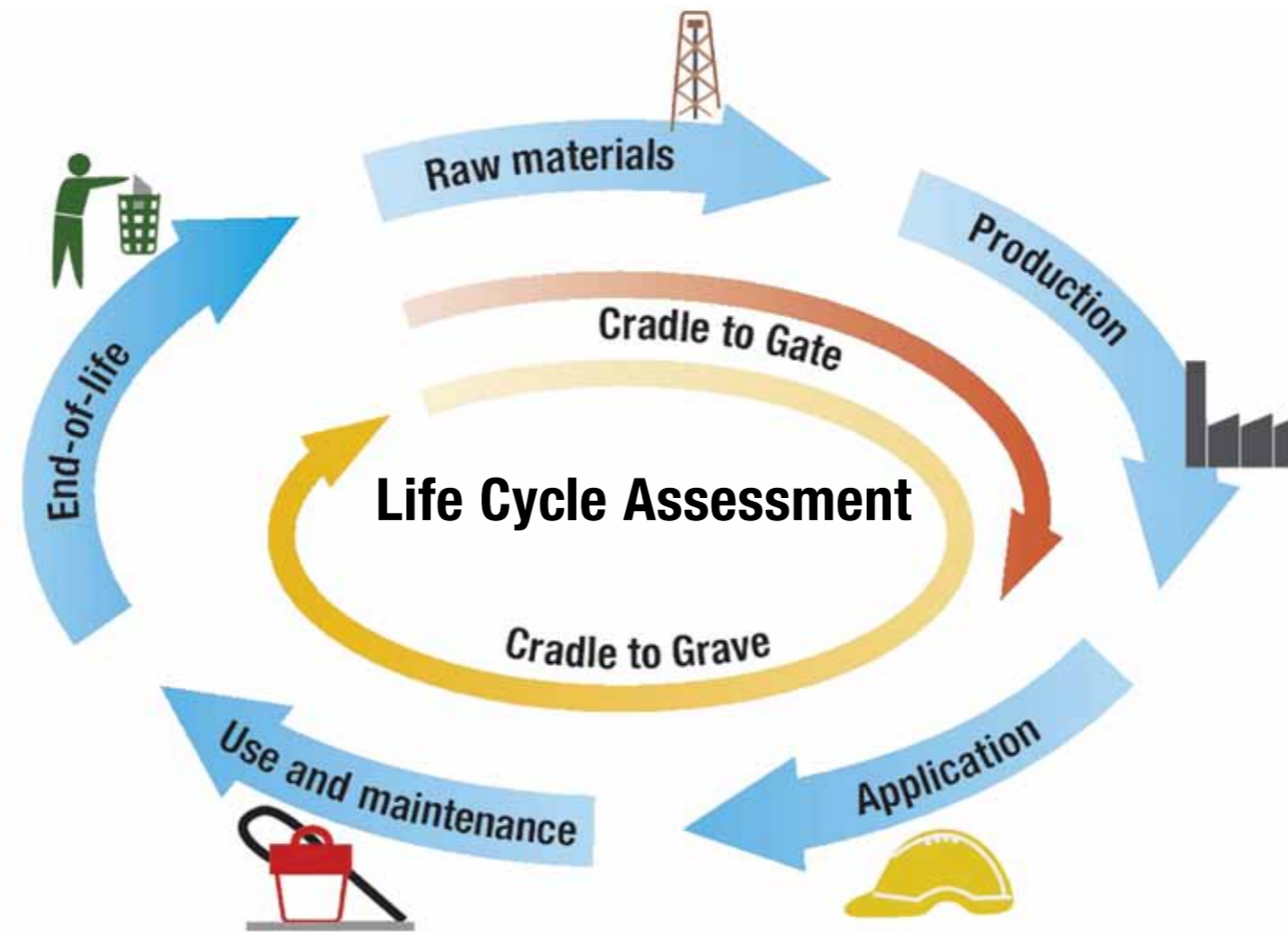
## Sika Sarnafil Roofing Systems and BREEAM Ratings

Sika Sarnafil Single Ply roofing systems, can positively contribute to the BREEAM rating, as PVC and FPO Single Ply roofing membranes are listed in the BRE Green Guide with an A+ rating (depending on the roof construction). This demonstrates sustainability and low environmental impact.



## Green Building Council

Sika are a member of the UK Green Roof Building Council (UK-GBC). The UK Green Building Council is a membership organisation campaigning for a sustainable built environment - one that minimises negative environmental impacts while maximising benefits for people everywhere.



## Evaluate the Sustainability of Your Whole Roofing System with Life Cycle Assessment

Life Cycle Assessment (LCA) is a standardised method to assess and compare the inputs, outputs and potential environmental impacts of products and services over their life cycle. It is also the basis on which Sika develops and evaluates the environmental performance of its solutions with facts.

- The Sika LCA's for standard roofing systems are available according to the ISO 14040 series and the Standard EN15804
- The LCA model was reviewed by the leading independent research institute Swiss Federal Laboratories for Materials and Science and Technology (EMPA)
- Tailor made LCA can be calculated for specific projects, as Sika roofing system build-ups may be adapted to the specific conditions of the project. For more information please contact Sika Sarnafil.



## Minimise Impacts and Waste in Roof Refurbishment

Upgrading the thermal performance of existing buildings is an ideal way of saving energy and will help to comply with UK Building Regulations. A thermal upgrade using the existing build up as a base:

- Reduces carbon footprint of the roofing system
- Reduces waste (not always necessary to strip off the existing system)
- Causes minimal disruption to the operation of the building



## Extend the Lifetime of your Roof

The durability of building materials is a key driver for sustainable building construction. Sika Sarnafil provide long lasting waterproof protection and are BBA certified to have a life expectancy in excess of 40 years for PVC and 25 years for FPO.



## Save Energy with Sika Sarnafil Solar Reflective Roofs

The benefits of solar reflective materials and colours are well known and understood. Sika Sarnafil membranes can be manufactured in highly reflective white which:

- Gives a Solar Reflectance Index (SRI) of 112%
- Reduces the urban heat island effect
- Reduces the cooling energy consumption requirements on a building



## Let Sika Build Green Roofs for You

The addition of a green roof to an otherwise unused area of a building is beneficial for the surrounding area. Initial loss of green space through new construction and its inherent natural processes are restored by an installation of a green roof.

Other benefits include:

- Storm water retention
- Reducing the urban heat island effect
- Improved thermal and acoustic performance of the roof
- Improving air quality and aesthetics





# How Can I Contribute to Sustainable Construction?

## You Can Contribute to Sustainable Construction by:

- Choosing roofing systems that use less energy and resources
- Selecting roofing systems with a low Global Warming Potential (GWP) – reducing the Carbon Footprint of your building
- Investing into highly durable roofing systems that have stood the test of time – saving energy and resources as well as cost over the life time of a building

## Find the Technical Background:

- Introduction to Life Cycle Assessment and impact categories
- LCA results of popular roofing systems
- Case studies for thermal insulation, solar reflective roofs, photovoltaic roofs and durability
- Overview of Green Building Certification programmes
- VOC free roofing solution



For a copy of the Sustainability in Roofing background document please contact Sika Sarnafil.

## Further Information on Sustainability

The Sika Corporate Sustainability webpage can be accessed via [www.sika.com/en/group/sustainability.html](http://www.sika.com/en/group/sustainability.html), where you can find further information on the company's commitment to sustainability and the steps we take to practice good corporate social responsibility.

## Select Sustainable Sika Roofing Solutions:



Energy efficiency solutions

**Sika Solar PV Roof System**



Resource efficiency solutions

**Single Ply Roofing Membranes**



Climate protection solutions

**Sika Green Roof Systems**



Air quality solutions

**Sika Green Roof Systems**



**For further information about Sarnafil products and our range of services, please call us on 01603 709360 or visit [www.sarnafil.co.uk](http://www.sarnafil.co.uk).**

To the best of our knowledge all information contained in this brochure was correct at the time of issue. Printed on paper from sustainable forests.



Sika Limited, Bankside 300, Peachman Way, Broadland Business Park, Norwich, NR7 0WF  
Tel: 01603 709360, Fax: 01603 433436, Email: [sarnafilroofing@uk.sika.com](mailto:sarnafilroofing@uk.sika.com)  
[www.sarnafil.co.uk](http://www.sarnafil.co.uk)

Registered Office: Sika Limited, Watchmead, Welwyn Garden City, Hertfordshire, AL7 1BQ  
Registered in England: Number 226822

**Sarnafil®**