

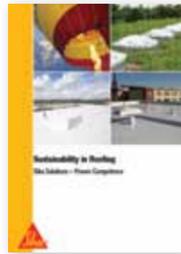
# How Can I Contribute to Sustainable Construction?

## 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



For a copy of the Sustainability in Roofing background document please contact Sika Liquid Plastics

## 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  
**Sika Liquid Applied Membranes**



Climate protection solutions  
**Sika Green Roof Systems**



Air quality solutions  
**Sika Green Roof Systems**



# Your Guide to Sustainable Roofing



Our most current General Sales Conditions shall apply. Please consult the Product Data Sheet prior to any use and processing.



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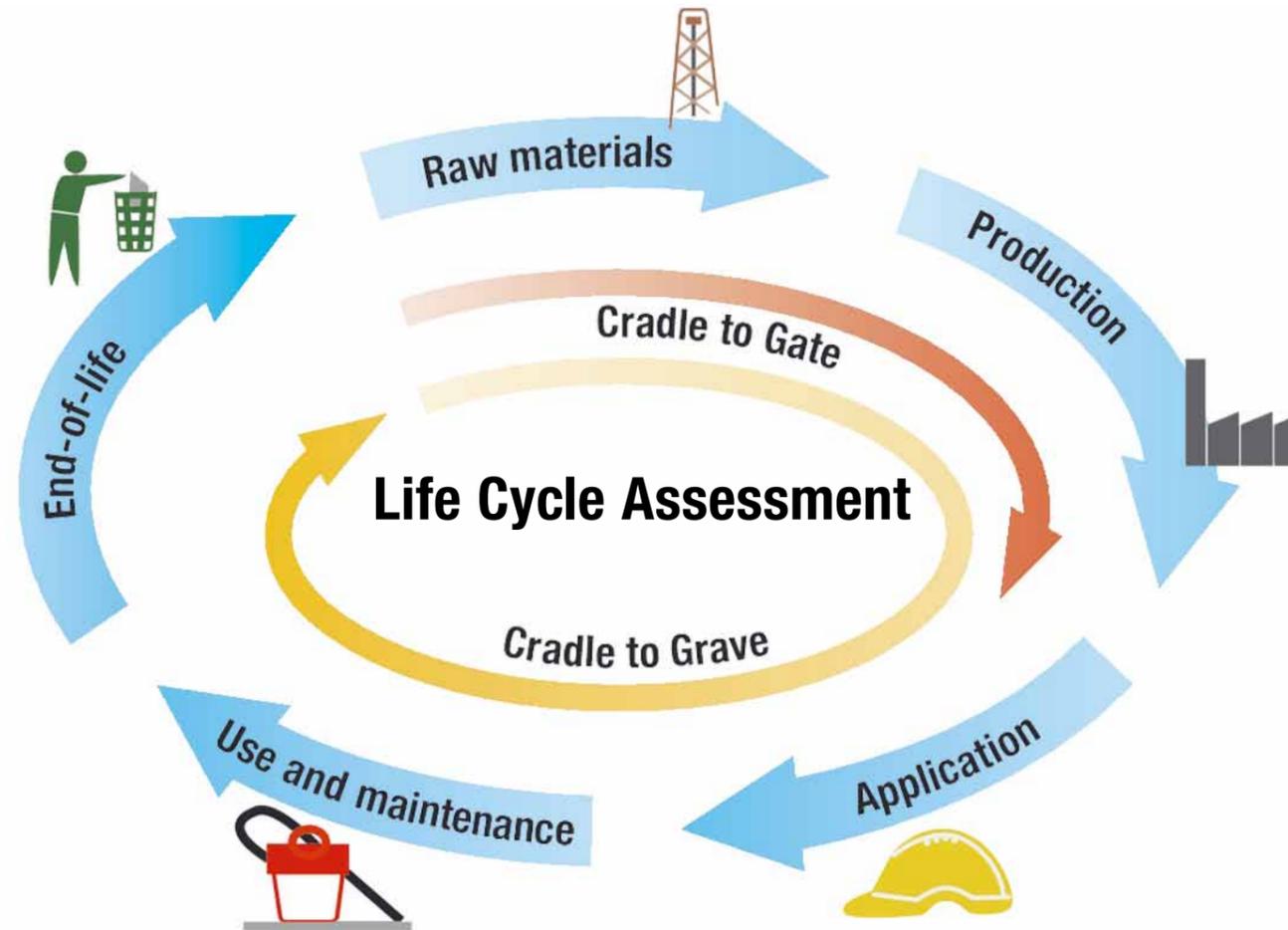
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# Your Guide to Sustainable Roofing

## Sika Liquid Plastics Roofing Systems and BREEAM Ratings

Sika Liquid Plastics manufacture polyurethane systems, which comply with the BREEAM generic element ratings for roof constructions as listed in the Green Guide to Specification website. Cold applied liquid roofing membranes have been recognised by BRE to help roofing elements achieve up to an A+ rating (depending on the roof construction), demonstrating the sustainability and low environmental impact of this chemistry type.



## 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 Liquid Plastics.



### 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 Liquid Plastics liquid applied membranes provide long lasting waterproof protection, and with the installation of a Product Life Extension System the life of the roof can be extended. This process can be repeated time and time again, and offers huge financial savings to the Building Owner.



### Save Energy with Sika Liquid Plastics Solar Reflective Roofs

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

- Gives a Solar Reflectance Index (SRI) of 110%
- 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

