

Green Roof Systems Suitable for the challenging climate of the Kingdom of Saudi Arabia



Life on Roofs



The Roofs of the Future are Green!



Roofs are more than just “functional components” for the protection of the building structure. Roofs give character to individual buildings and entire city districts. Beyond that, roofs are more and more considered as open resource areas. They attract urban planners looking for socially responsible concepts that counteract the loss of natural living space and provide solutions for issues such as stormwater management and urban heat island effect in densely populated cities.

ZinCo – as one of the global market leader – are pioneers and innovators in the field of extensive and intensive roof greening. Research projects and innovative systems developed by ZinCo inspire architects and demanding clients to plan both private and large public buildings in a holistic and sustainable way.

ZinCo are based in Germany, with offices in over 22 countries globally. We install over 1.5 million square meters of Green Roof systems annually and deliver superior environmental and economic benefits to building owners and communities all over the world.

People, their relationship to nature and to life in an ecologically intact environment – this is what matters to us.



Different Types of Green Roofs

All types of Green Roofs can be designed and successfully installed with the right technology and a strong partner by your side.



Extensive Green Roofs



Intensive Green Roofs



Solar Power and Green Roofs



Pitched Green Roofs



Walkways on Roofs



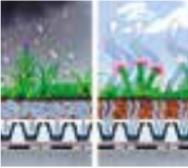
Driveways on Roofs

Benefits of Green Roofs



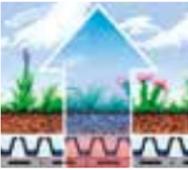
Improve The Microclimate

By cooling the surrounding air, Green Roofs make a valuable contribution to improve the microclimate, especially in densely populated areas.



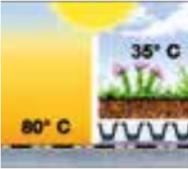
Increase Water Retention

Rainwater run-off is reduced and delayed, diminishing the stress on the sewer system.



Reduce Energy Costs

Green Roofs buffer temperature extremes and improve the building's energy performance.



Reduce Renovation Costs

The waterproofing is protected from temperature extremes, UV exposure and mechanical damage. Therefore its life expectancy is increased.



Bind Dust And Toxic Particles

A Green Roof filters out dust and smog particles, binding nitrates and other harmful substances within the substrate.



Improve Noise Protection

Green Roofs reduce reflective sound by up to 3 dB and improve sound insulation of a building by up to 8 dB.



Offer A Natural Habitat

Landscaped roofs compensate for green spaces lost to building development and provide a natural habitat for animals and plants.



Provide Additional Space

Green Roofs offer additional space for numerous uses (social, recreational, parking, ...) without additional land costs.

We are proud to be part of the amazing Al-Shaheed Park in Kuwait. With 55 000 m² it is the largest Green Roof Project in the Arab World.



Overview of Green Roof Solutions



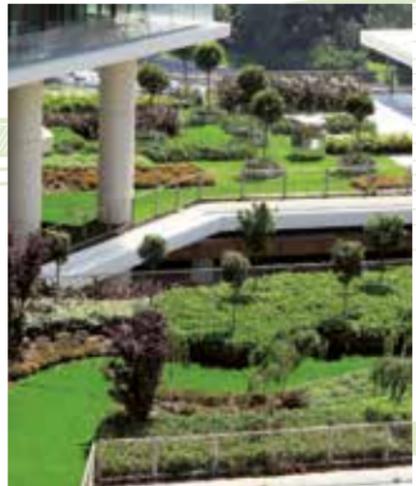
Extensive green Roofs

Extensive Green Roofs are shallow and lightweight Green Roof solutions as an answer to massive urbanisation with its associated heat island effect and loss of natural habitat. They actively contribute to an improvement of the city climate while reducing the a/c requirements within the building. The ingenious irrigation system engineered specifically for this system build-up is the clue. What's best - you can even recycle your greywater.

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Roof Garden

The "Roof Garden" is an intensive Green Roof and can literally be compared to building a garden on a roof. "Roof Gardens" are usually multifunctional and accessible. They require more weight and a deeper system build-up. Depending on the substrate depth, anything is possible from lawns, perennials, shrubs, trees including other landscape features such as ponds, pergolas and patios.



Walkways & Driveways

Almost everything that can be realised on the ground is now possible on roofs, too. To create long lasting and functioning walkways and driveways on roofs, it is crucial to use the right technique. Walkways and driveways require system build-ups which ensure the continuity of roof functions such as waterproofness, drainage, thermal and sound insulation on one hand and must cater for horizontal forces from accelerating, breaking and steering on the other hand.



Pitched green Roofs

Extensive landscaping can also be deployed on pitched and steep pitched roofs. With ZinCo, Pitched Green Roofs up to 35° are easily designed. From 10° on, the Green Roof System build-up differs significantly whether it is for pitched or steep pitched roofs. Shear forces increase with the roof

slope and have to be transferred into stable beams. The substrate layer has to be protected against erosion. Plant selection and planting methods are to be adjusted to the relevant slope and exposure.



What ZinCo can do for you

ZinCo provide a comprehensive package of environmentally sound Green Roof Systems and customized project support, based on:

- 35+ years of experience
- Tested & proven Green Roof Systems
- Exceeding quality standards & permanent innovation through research and development
- Compliance with relevant international standards
- Experts in structural engineering, landscape architecture, horticulture, material and soil science, ...
- Support from planning to completion (design, specifications, CAD, consultancy, on-site)
- An international network of partners
- Comprehensive warranties

To date, ZinCo Green Roof Solutions have inspired planners and contractors throughout the world, providing them with the necessary flexibility to accommodate a wide range of designs and building needs.

Tell us about your project!
We've got the expertise to bring it to life.

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