OPTIGRÜN®
ROOF GREENING

NATURE HAS A FUTURE
WITH THE EXPERTISE OF LEADING INDUSTRY SPECIALISTS



OPTIGRÜN
IN A NUTSHELL

We make green roofs! Not only regionally, but in all European conurbations. We help architects with planning and contractors with the installation of green roofs, and we supply the materials – from the protection layer on the waterproofing to the plants.

The most important aspect is the interplay of sophisticated technology and comprehensive expertise in all building projects. To find the best solution or your project, service and advice are of particularly high importance to us.

We would like to briefly present the company and our system solutions to you in our competence brochure. The possible ways of using sealed areas and creating new habitats are unbelievably varied.

See for yourself!

„THE MORE CHALLENGING, THE MORE OPTIGRÜN“



Uwe Harzmann
Optigrün Managing Director

SYSTEM SOLUTIONS
WITH ADDED VALUE

WHO WE ARE AND WHAT WE DO 4 – 13

OPTIGRÜN SYSTEM SOLUTIONS & PRODUCTS FOR ROOF AND BUILDING GREENING

ECONOMY ROOF 14 – 15
LIGHTWEIGHT ROOF 16 – 17
NATURE ROOF 18 – 19
SOLAR GREEN ROOF 20 – 23
RETENTION ROOF 24 – 29
GARDEN ROOF & URBAN GARDENING 30 – 31
LANDSCAPE ROOF 32 – 33
PUBLIC ROOF & PAVED SURFACES 34 – 35
PITCHED ROOF 36 – 37
PLANTERS, EDGE ELEMENTS AND EDGE TRIMS 38 – 39
FALL PROTECTION 40 – 41

CONSULTING & SERVICE 42 – 43

A PICTURE PAINTS A THOUSAND WORDS 44 – 47

FROM VISIONARY IDEAS TO THE MARKET LEADER IN EUROPE



Harzmann family in the roof garden, 1973

A LOOK BACK

Our success is based on our ability to look beyond our horizons, believe in the future and always be a step ahead. For instance, we attempted to raise awareness of topics such as sealing, flooding, urban heat islands and air quality as early as the mid-1970s.

Climate change and environmental protection played a role for us right from the start, long before the issue became the focus of public attention. It is only in recent years that building greening has left the “crazy corner” and been viewed as an important part of active environmental and climate protection. And quite rightly so!

THE OPTIGRÜN SUCCESS FACTORS, WHICH WE HAVE RELIED ON FOR OVER FIVE DECADES

We primarily see ourselves as a technology-oriented service provider who strives to find the best solution for every project. As a system supplier for roof and building greening, we support architects with our expertise right from the very early phases of planning in order to lay the foundations for a successful green roof.

Since 1976, we have maintained a partner system with qualified companies from the garden and landscaping sector who have been trained by us and who specialise in installing and maintaining building greening. In addition, we have close, long-standing contacts in many other companies within garden and landscape construction and construction material retail, thus allowing many excellent green roofs to also be implemented in this way.

Supplying high-quality products with perfect logistics, offering comprehensive service, fair conduct towards our partners and customers, and long-standing employees with a high level of knowledge and who enjoy their work are the basis of the Optigrün DNA.



The Optigrün company headquarters in Krauchenwies-Göggingen, 2022

SUSTAINABILITY AS PART OF THE CORPORATE PHILOSOPHY

Even over 30 years ago, we installed a decentralised network of earthworks to minimise the transport distances for substrate deliveries to the construction site as well as the environmental impact associated with that. A few years later, we invented the retention roof as an important part of the “sponge city” concept, thereby contributing to sustainable urban development. We also pay attention to our ecological footprint. Our plastic and aluminium products are almost exclusively manufactured from recycled raw materials. For instance, our drainage and storage boards are made from recycled plastic from the drinks industry and our protection fleeces are made from recycled clothing and carpet remnants.

At our Optigrün company headquarters, which were created on an unused industrial site, we rely on a heat pump and self-generated electricity from our solar green roof for our energy requirements. Company vehicles purchased in the future will also be electric vehicles. To offer our employees climate-friendly work, working from home is part of our everyday working life, and we encourage mobility among our employees with the Deutschland-Ticket. All of these measures contribute towards our overriding goal of achieving the economic optimum while observing and complying with ecological and social standards.



The green roof terrace on the main building of the Optigrün company headquarters

OUR VISION
IMPROVING THE CLIMATE BALANCE

With comprehensive, pioneering green roof solutions for usable space and recreation areas, we sustainably promote near-natural urban development, quality of life in urban areas, and an improvement in the climate balance.

OUR MISSION
SUPERIOR PROJECT SOLUTIONS

We offer our customers functionally, ecologically and economically superior project solutions thanks to the highest levels of product, consulting and service expertise as well as valuable customer relationships.

OUR GOAL
CONTINUOUS FURTHER DEVELOPMENT

Through healthy, profitable growth and continuous, organisational further development, we secure our leading market position as a reliable partner and devoted employer over the long term.

more than **5.250.000 m²**
of green roofs worldwide per year

over **50**
years of experience

approx **2.000**
products

approx **50**
specialist seminars each year

approx **160**
employees both in the sales office and in the field

approx **140**
Partner companies in the Optigrün Group

over **10.000**
implemented green roofs per year

6
Export offices

over **5.000**
seminar participants each year



STATE-OF-THE-ART EXPERTISE
THE OPTIGRÜN ACADEMY

Valuable expertise relating to building greening and regular updates on changes in guidelines and standards – this is what the OPTIGRÜN Academy offers with all relevant specialist topics. The seminars and training courses are tailored to the different target groups. Together with our selected network partners from related industries, we conduct seminars that are primarily aimed at designers and architects as well as other parties involved in the construction and are recognised as further training measures in many German federal states. At the same time, we support our partner and processing companies by providing regular seminars for their employees. In this way, we can ensure that the latest findings and innovative developments for implementation reach the market.

Please note: Our Optigrün Academy with our specialised seminars is currently only available in German. We kindly ask you to take this into account.



OUR EMPLOYEES ARE OUR CAPITAL



"What makes OPTIGRÜN special for me is that I have my own area of responsibility, my colleagues and the working atmosphere are very good and I'm doing something good for the environment at the same time."

JULIAN — Internal Sales Department



"It's always a pleasure to plan and discuss theconstruction sites with our customers and partners. Every day is full of new challenges. What makes it special for me is the confidence that I can work from home in Bulgaria 2000 kilometres from the headquarters."

VERA — Application Technology



"I appreciate the streamlined hierarchy at OPTIGRÜN and that every employee can directly contribute towards the company's success. New colleagues should above all be open to the future and be able to think outside the box."

FLORIAN — Regional Sales Manager

"OPTIGRÜN is very family-friendly and flexible in terms of working hours, so it was no problem for me to balance my working hours and looking after my children after my parental leave. The good relationship among colleagues is also special to me – it's not for nothing that I've been working for Optigrün for 23 years now."



DANIELA — Accounting

GREATER QUALITY OF LIFE DESPITE URBANISATION SHAPING THE FUTURE SYSTEMATICALLY AND CLIMATE CHANGE

RAINWATER RETENTION

Relieving of the sewer system and mitigation of climate change through evaporation.

ECOLOGICAL COMPENSATION

Green roof areas offer habits instead of total soil sealing.

REDUCTION OF FINE DUST AND NOISE

Improvement in quality of life and active health protection.

PROTECTION AT EXTREME TEMPERATURES

Extension of the service life of the waterproofing.

CREATIVE AND VISIONARY

A contribution to sustainable construction and urban planning for improved quality of life.

EFFECTIVE AND EFFICIENT

Increased yield with photovoltaics, cost savings for wastewater charges.



SHAPING THE FUTURE SYSTEMATICALLY

A green roof is an upgrade for any building. It looks good, offers multiple benefits with numerous functions and even saves money. In order to make the right decision, it is essential to identify the respective requirements and to use the best solution for each application. Our motivation is the idea of designing living spaces better, taking the next step for tomorrow today and further extending our technological lead. To do this, we develop innovative systems that impress with their functionality from both an ecological and an economic viewpoint.

Our green roof systems are dependent on the waterproofing and insulation used. As a specialist for green roofs on buildings, we are in no way dependent on certain manufacturers and can offer you the individually best solution for your project. No other competitor offers more systems than Optigrün.

MANY POSSIBILITIES ALWAYS THE RIGHT DECISION

Our expertise to assist with your decision: Make the most of our expertise and experience. You will find the optimal green roof system with a superstructure, substrate and planting to suit every requirement and every concern.

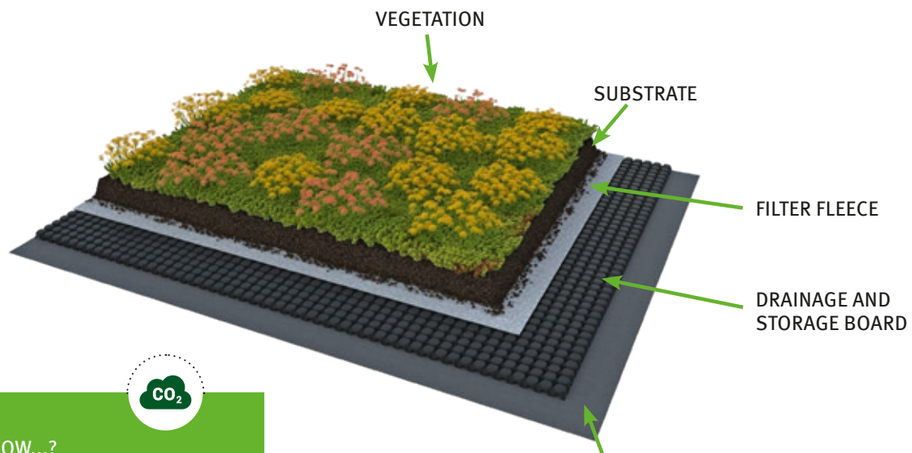
Every roof can fundamentally be greened. Nevertheless, there are some differences – in the type of building and in the conditions that the roof itself provides. We offer various alternative designs, which differ based on the form and use of the green roof:

Extensive green roofs with a simple superstructure and low maintenance requirements for green roofs without further use.

Intensive green roofs with a garden-like superstructure and higher maintenance requirements for the use of green roofs as additional living space.

The functional green roof with intelligent rainwater management for rain retention and drainage or the combination of green roof and photovoltaics.

Semi intensive green roofs are a mix between extensive and intensive green roofs. This version contributes to preserving biodiversity by means of a more sophisticated superstructure. The principle behind the green roof superstructure is always the same:



DID YOU KNOW...?

Preventing CO_2 emissions is the major goal of sustainable action. CO_2 emissions can be reduced both by using recycled plastic and by using green electricity in production.



Simple and easy-care –
Extensive green roofs from OPTIGRÜN

- Low-growing plants adapted to extreme local conditions, which largely develop by themselves
- Ecological compensation of built-up nature
- Cost-effective measure for intervention compensation regulation



Ecologically valuable and versatile –
Intensive green roofs from OPTIGRÜN

- Unlimited design options for flat and slightly pitched roofs
- Use of more demanding plants enables greater ecological and aesthetic benefits
- Additional useful areas and living spaces for humans, flora and fauna
- Option for public areas such as paths, terraces and even road surfaces



Intelligent and sustainable –
Functional green roofs from OPTIGRÜN

- Rainwater management at a high level
- Large storage capacities to maximise evaporation and flood protection in urban areas
- Solar Green Roof – multifunctional roof use

THE ECONOMY ROOF
LOW-MAINTENANCE AND ECONOMICAL

Water storage:: 25 l/m²

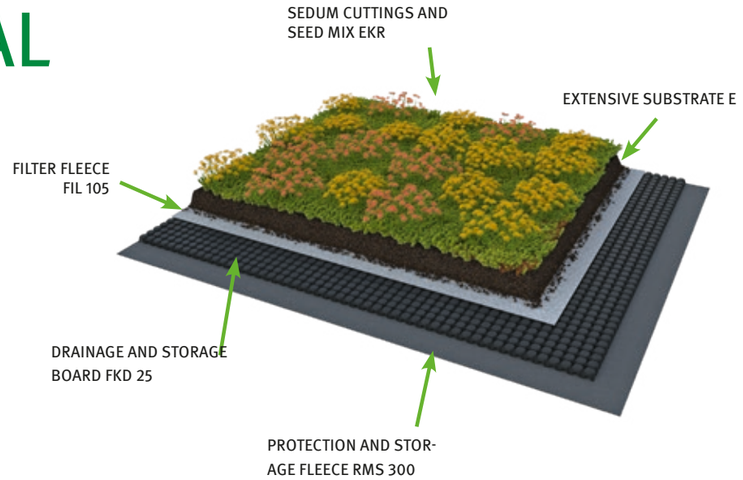
Maintenance requirements: Low

Weight: from 90 kg/m²

A green roof is always better. This principle can also be applied to large roof areas and small budgets. The ECONOMY ROOF is the simplest solution for ecological compensation. At the same time, the green roof protects the roof membrane and thus extends the service life of the entire roof.

The name says it all: the ECONOMY ROOF is a particularly cost-effective green roof superstructure. But nothing is spared when it comes to function and safety. Thanks to its sophisticated technology, the system effectively stores a large amount of water using uncomplicated methods. The classic system with a standard super structure for extensive green roofs has proven itself for decades, especially with sedum vegetation.

No experiments! Rely on the experts from the very beginning. The ECONOMY ROOF barely costs more than a gravel roof and the small additional costs are even saved by reduced wastewater charges.









MINIMUM WORKLOAD:

- Compliance with official building requirements
- Reduction in wastewater charges
- Reduction in the environmental footprint



THE LIGHTWEIGHT ROOF
FOR LOW STATIC RESERVES

Roofs with limited statics initially appear to be a particularly demanding challenge. With the LIGHTWEIGHT ROOF superstructure, there is a completely natural solution to create compensation areas. Even with almost exclusively natural materials, the weight can be reduced by approx. 50% compared to a normal green roof.

Our specially developed lightweight substrate in combination with our LIGHTWEIGHT ROOF vegetation mat creates a continuous extensive green roof in a very short time and security against drift from the very beginning.

This makes it easy to achieve a sufficiently large water storage capacity on any flat roof – drainage takes place via a drainage board. At the same time, our LIGHTWEIGHT ROOF system protects against UV radiation and fully complies with the FLL Green Roof Guidelines.

Water storage:
approx. 18 l/m²

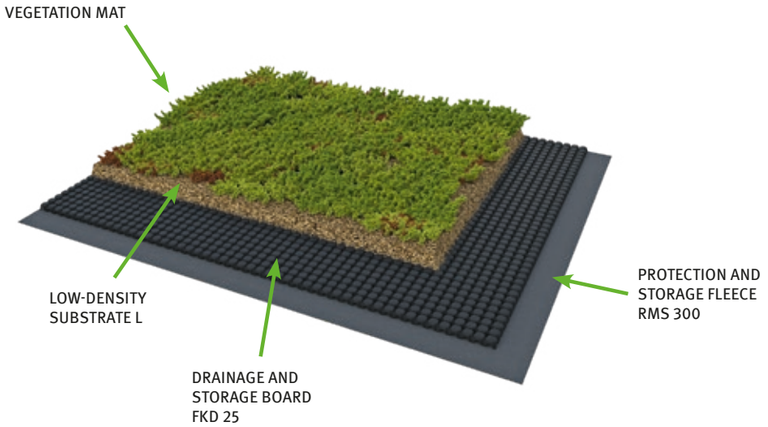
Maintenance requirements: low

Weight:
from 55 kg/m²

Weight reduction:
up to 50%

Protection from UV / radiation / hail or heavy rain

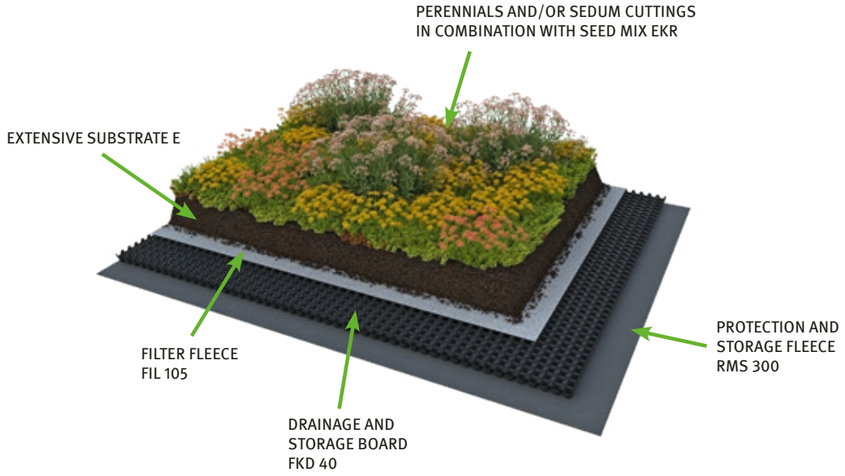




DID YOU KNOW...?

Especially when refurbishing older roofs or industrial roofs with a lightweight construction, the LIGHTWEIGHT ROOF is the optimal solution!





THE NATURE ROOF
VARIED AND VISUALLY APPEALING



Water storage:
up to 80 l/m²

Increased evaporation and cooling performance

Increase in ecological value through biodiversity

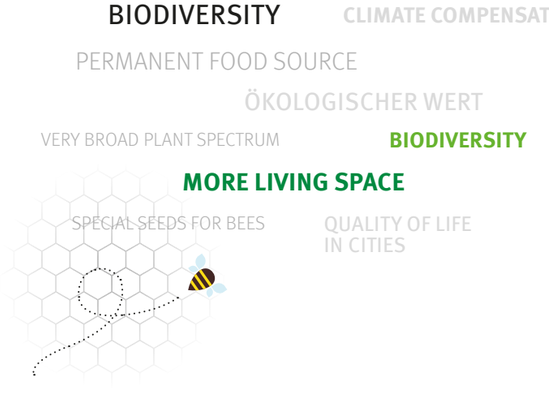
Wastewater charge reduction

Weight:
from 95 kg/m²

The long flowering phase is not only visually pleasing – the high-quality green roof form is also very popular with insects and bees as a permanent source of food. Further biodiversity components, such as nesting aids, water areas, dead trees and different substrate heights, further increase the ecological value and biodiversity.

The NATURE ROOF is a cost-effective type of green roof with highly flexible design options: grasses, herbs, perennials, shrubs, even small trees can be planted. These are the best conditions for greater water retention and higher evaporation.

It is this versatility that makes the NATURE ROOF an ideal border for roof terraces or recreation areas. Preserving biodiversity thus creates new habitats and increases quality of life.



DID YOU KNOW...?

OPTIGRÜN invented the NATURE ROOF 30 years ago – even then, it was a passionate pioneer in the preservation of nature and biodiversity.

THE SOLAR GREEN ROOF
ECONOMICALLY AND ENVIRONMENTALLY IMPRESSIVE

Can be adapted to suit any standard solar panels

System secured with a superimposed load – no damage to the roof membrane

Solar modules on green roofs are more efficient

Climate change and the energy transition are the major issues of our future. The intelligent use of roof areas is a key part of the solution.

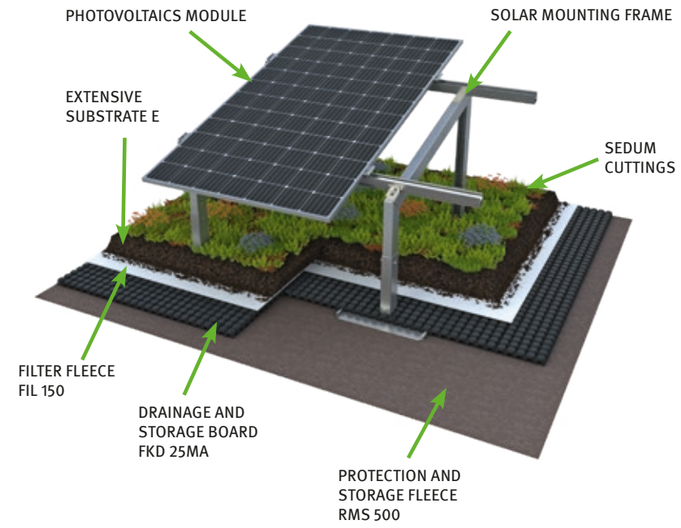
Green roofs increase the energetic, economic, aesthetic and ecological functionality of the building. Especially in terms of rainwater management, buildings with green roofs have become an important part of the construction world as they minimise the environmental impact of the building on the environment. Many cities and municipalities recognise green roofs as a necessity and are changing their development plans to this effect.

PV systems for electricity generation are of economic interest to many building owners and investors – whether it be for personal use of the generated electricity or for feeding into the public electricity grid. Multifunctionality is the new goal of urban planning. The combination of green roof and PV system forms a particularly efficient system in this respect.



OPTIGRÜN-SOLAR FKD
THE CLASSIC AMONG SOLAR GREEN ROOFS

The SOLAR GREEN ROOF with the proven technology of the ECONOMY ROOF is a sophisticated and highly functional system structure for extensive green roofs, complemented with the solar mounting frame. The Drainage and Storage Board FKD 25 offers a spacious water reservoir and reliably drains excess water. Combined with the Filter Fleece FIL 150, optimum water distribution is guaranteed so that the vegetation is well supplied, even under the rows of PV modules.





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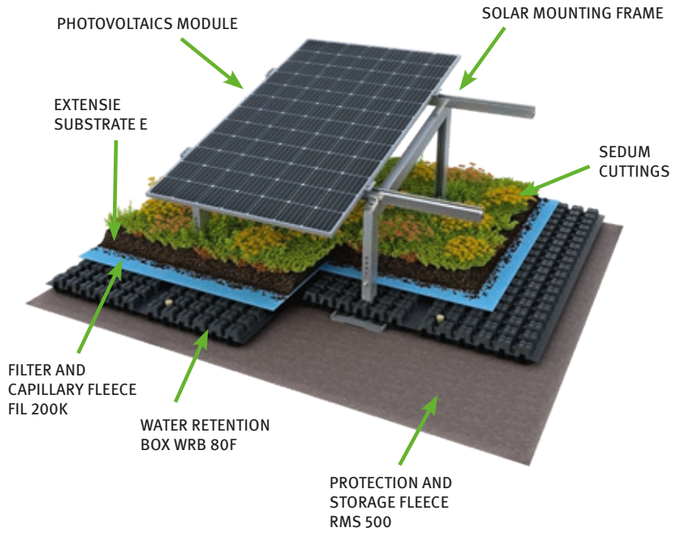
OPTIGRÜN-SOLAR WRB
RAINWATER MANAGEMENT INCLUDED

The DISCHARGE RESTRICTION FLOW CONTROL RETENTION ROOF is an economical and efficient product for rainwater retention and water discharge reduction. In combination with the solar mounting frame, multi-functional roof use is possible. The use of the proven Water Retention Box WRB 80F helps to maintain the natural water balance by increasing evaporation and minimising surface discharge.



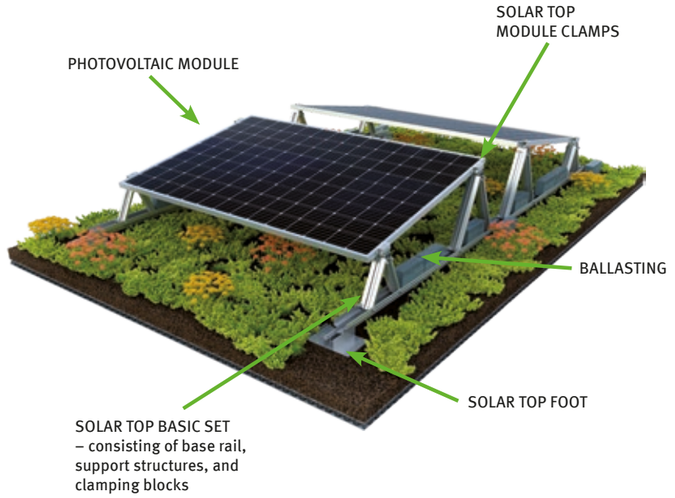


OPTIGRÜN-SOLAR TOP
EASY RETROFITTING OF PHOTO-VOLTAICS ON GREEN ROOFS

With Optigrün-Solar TOP, the combination of photovoltaics and green roofing is reimagined – as a retrofit system for existing green roofs.

The solution stands for uncompromising system integration: An ecologically functional green roof is completely preserved – including biodiversity, evaporation capacity, and maintenance accessibility.

The ballasted substructure and modular design can be quickly assembled thanks to a high degree of pre-assembly, while minimizing disruptions to ongoing building operations.









RAINWATER MANAGEMENT WITH RETENTION ROOFS FROM OPTIGRÜN

With the increase in heavy rain and storms, the existing infrastructure is reaching its limits. At the same time, periods of drought are becoming more frequent and a shortage of water for plants is increasing. Rainwater retention spaces must be created, and solutions for rainwater management at a high level are required. As there is no room for water retention systems, especially in urban areas, existing building roofs offer excellent opportunities for being used as retention reservoirs.

As the inventors of the RETENTION ROOF, we offer effective solutions for water discharge delay and evaporation, which can be used with any flat roof. With water storage capacities ranging from 19 litres to over 300 litres per m², our systems, products and services make an important contribution to restoring the natural water balance and flood protection.

The experts from OPTIGRÜN already faced these challenges when they were not yet receiving much public attention. It is therefore only logical that we developed innovative retention systems at an early stage and play a pioneering role in technology and advisory services on the market.

Increased evaporation and cooling performance

Fulfilment of master plan specifications concerning restrictions on discharge and the peak discharge coefficient

Hardly any additional costs with significantly greater benefit

EFFICIENT SYSTEMS FOR RAINWATER MANAGEMENT FOR EVERY REQUIREMENT

Whether drainage delays, retention, the controlled drainage of rainwater, the intelligent control system of RETENTION ROOFS or the pioneering linking of green roofs and civil engineering via a water balance control system: On our homepage you will find an overview of our system solutions for rainwater management.

overview
retention roofs

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THE RETENTION ROOF DISCHARGE COEFFICIENT MEANDER



Peak discharge coefficient: 0.1 or 0.17

Water storage: 19 or 32 l/m²

Patented, unique product

Ecologically valuable and visually appealing – these are the attributes of the MEANDER systems from OPTIGRÜN. After all, the two patented retention roof solutions allow a considerable water discharge delay to be achieved. The principle comes directly from nature, where the flow velocity is reduced when the water moves in a continuous path. In our DISCHARGE COEFFICIENT MEANDER RETENTION ROOFS, water drainage occurs on winding detours with significantly reduced drainage peaks. A drainpipe with a smaller cross-section can then drain the water away. An ecological measure that pays off in two respects.

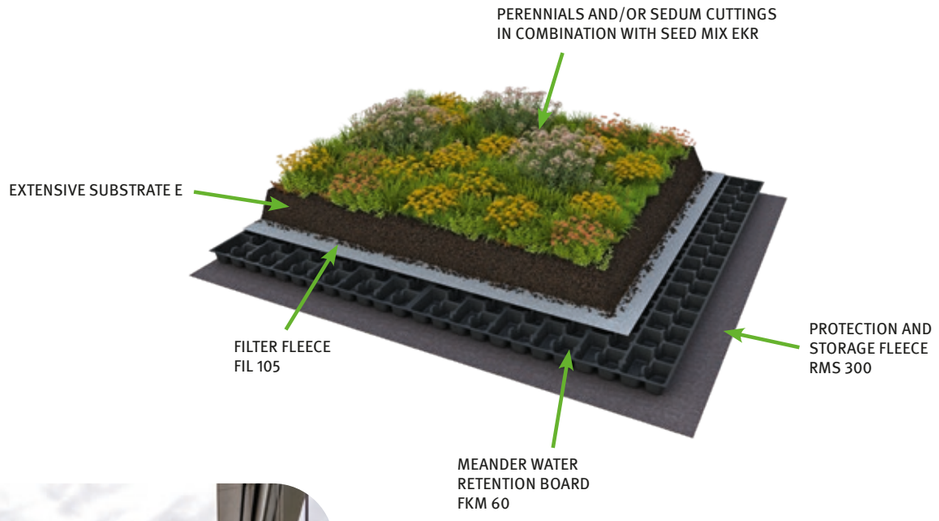


Efficient and economical – **DISCHARGE COEFFICIENT MEANDER RETENTION ROOF FKM 30**

- The best peak drainage coefficient inthe industry according to FLL 2018 (CS =0.1)
- For extensive green roofs
- With the Meander Water RetentionBoard FKM 30 for a longer flow path
- Especially easy to maintain withour sedum vegetation
- Low superstructure heights

Efficient and high-performance – **DISCHARGE COEFFICIENT MEANDER RETENTION ROOF FKM 60**

- With a permanent water reservoir
- For extensive and simple intensive greenroofs
- With the Meander Water RetentionBoard FKM 60 for a longer flow path
- Besides the recommended perenni-alplanting, a biodiversity area can becre-ated with little effort





SAVING TIP – KNOW HOW!
A DISCHARGE COEFFICIENT MEANDER RETENTION ROOF does not cost more than a normal extensive green roof – the reduced peak discharge coefficient is supplied virtually.

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THE RETENTION ROOF
DISCHARGE RESTRICTION FLOW CONTROL

High retention volume: approx. 75 – 300 l/m²

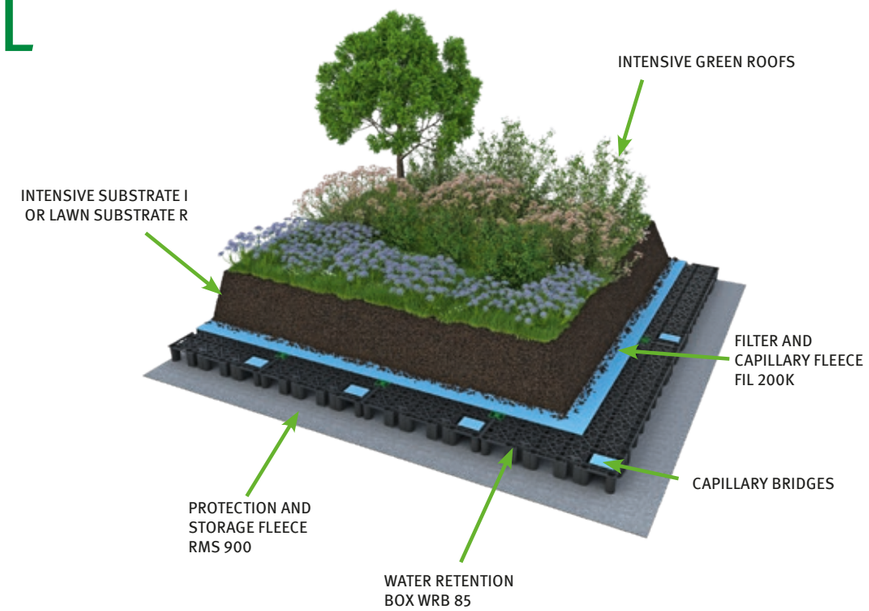
Fulfilment of structural requirements concerning restrictions on discharge

Water reservoir for varied intensive green roofs

Increased evaporation performance due to integrated capillary system

Static or dynamic for a natural water balance. The DISCHARGE RESTRICTION FLOW CONTROL RETENTION ROOF takes care of excellent rainwater management and relieves pressure on the public sewer network. This system makes designing easier, especially when there are flood volume and water discharge delay specifications.

The DISCHARGE RESTRICTION FLOW CONTROL RETENTION ROOF offers a safe solution for both extensive and intensive green roofs offering the precise regulation of the water discharge along with the storage of water. The water retention box is used here both as a temporary retention space and as a permanent water reservoir. This enables this system solution to increase both evaporative cooling and flood protection.









THE GARDEN ROOF
GREEN OASES ON THE ROOFS OF THE CITY

Beautiful havens in the heart of cities

Excellent urban climate thanks to high water reservoir capacity

Creation of living space

Increase in well-being

Value appreciation for real estate

The principle is as simple as it is impressive: Everything that garden lovers appreciate is also possible on a building roof or the ceiling of an underground garage. As a terrace or roof garden, the GARDEN ROOF with its versatile possibilities offers additional living and usable space. New landscapes with species-rich plants, lawns, shrubs and ponds are created on the basis of a sophisticated roof structure.







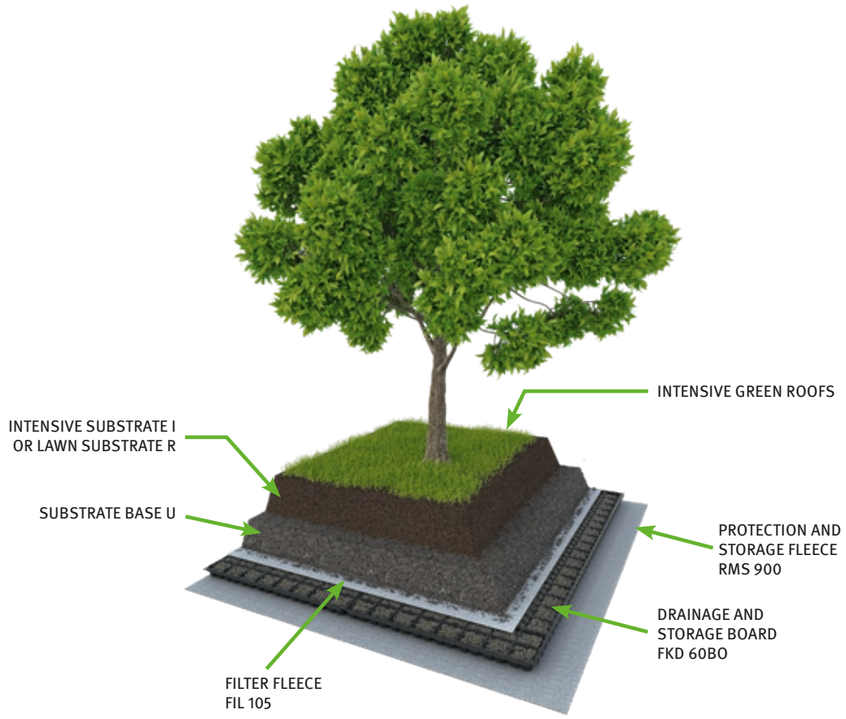


URBAN GARDENING

As a kitchen garden with vegetables, herbs, shrubs and even fruit trees, URBAN GARDENING is a special form of the GARDEN ROOF. For self-sufficient people, it is an excellent opportunity to grow their own fruit and vegetables in the city. Our proven structure with an optimised substrate with tested quality ensures good yields. URBAN GARDENING not only compensates for the loss of land – the cultivation of crops also reduces transport distances, CO_2 emissions and tension in stressful urban life.

TREND INFO FOR YOU!

The future belongs to the garden:
The need for the growing urban population to experience nature is bringing more and more people together in new community gardens to grow organic food – even on the roofs of urban areas. (Source: Zukunftsinstitut GmbH)







GOOD FOR THE ENVIRONMENT:
Rooftop landscapes invite you to stay in the cities and slow down – much better for your happiness and the CO_2 balance than a trip into the countryside in a traffic jam.

THE LANDSCAPE ROOF
VISIONARY IDEAS – SUSTAINABLE HABITATS

With versatile design options, rooftop landscapes can be created that, as green oases, assume important functions in the urban environment. The high, multi-layered superstructure of the LANDSCAPE ROOF offers the best conditions for varied planting. The optimum conditions for trees, shrubs, perennials, and even lawns, playgrounds, ponds and terraces are created with this green roof system for roofs or underground garages.

The LANDSCAPE ROOF is comparable to green areas on natural ground, both visually and in terms of maintenance. And this is also true of its recreational value!

Intensive green roof – comparable with a garden

Permanently functional underground garage green roof

Positive climate impact by reducing heat islands

THE PUBLIC ROOF
FUNCTIONAL USE OF SEALED SURFACES

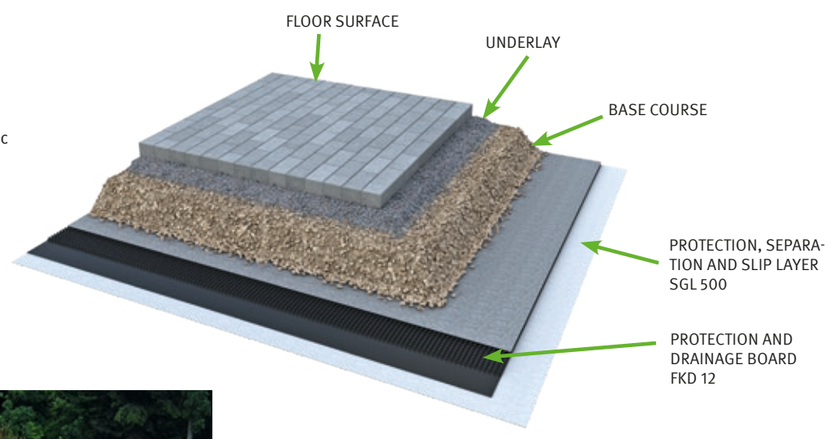
Verification of stability and load calculations available

Safe solutions with sophisticated and proven products

Designing and implementation of roads and path construction on building roofs are demanding and complex challenges. Load distribution, surface drainage and substrate drainage are key tasks of functioning public roofs. A distinction is generally made between three usage categories: Roof areas accessible to pedestrians (NK 1), roof areas accessible to cars up to 3.5 t (NK 2) and roof areas accessible to trucks up to 20 t (NK 3).

Thanks to decades of expertise, OPTIGRÜN is also your professional contact person for the PUBLIC ROOF. Comprehensive expertise, experience in all areas of public roofs and our own tests ensure the safety of innovative systems. This results in sophisticated superstructures for varied solutions, which make it possible to create surfaces on roofs that can be walked and driven on.

Example superstructure of a public roof usage category 2 - roof areas accessible to cars







GO-AHEAD FOR MANY DESIGNS

We offer the PUBLIC ROOF in different versions for all three usage categories (NK 1-3).
This results in safe and functional path surfaces with aesthetically pleasing areas that can be designed, for instance, with green roof coverings or gravel lawns. The possibilities are varied – a PUBLIC ROOF is also possible with the valuable retention function.

We also create public areas on inverted roofs, naturally using a modified construction method. OPTIGRÜN has developed an additional system solution in a lightweight construction for public routes on ceilings with low load reserves or to compensate for significant height differences.

Versatile solutions, depending on the construction site situation

Calculated and tested superstructures

LOW LOAD RESERVES

LOW SUPERSTRUCTURE HEIGHTS

GREEN ROOF COVERINGS

GRAVEL LAWN

RETENTION FUNCTION

LIGHTWEIGHT CONSTRUCTION
WITH NO PITCH
WITH DRAINAGE







THE PITCHED ROOF
THE KEY DISCIPLINE FOR GREEN ROOF EXPERTS

A visual and ecological exclamation mark, even from a distance

Quick and easy installation possible

Diversity even in the most challenging of disciplines. The particular strengths and experience of the market leader in green roofs are in demand, especially in the case of significant roof pitches. We have developed unique system solutions taking into account the pitch, design and construction of the roof, including static conditions. Specially adapted modules offer a multitude of solutions and meet the various requirements of the respective building project. This allows inexpensive solutions to be implemented for simple roofs and green roofs are even possible for very steep and complex roofs.



WITHOUT ANTI-SLIP SYSTEM **5 – 15°**

Durable solutions for green roofs with a low roof pitch up to a maximum of 15°.



WITH ANTI-SLIP SYSTEM **S 15 – 45°**

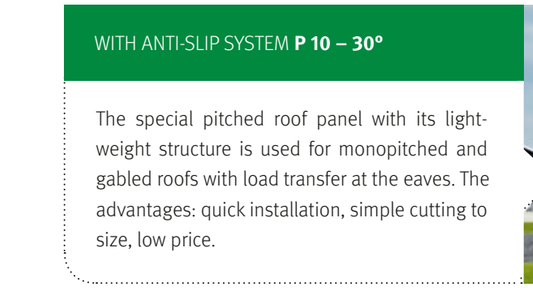
The unique special rope system is used above all for special roof shapes with high shear loads, for curved or arched surfaces. The combination of a stainless steel cable with cable stoppers and anti-slip sills ensures that even very steep and highly complex roofs can be greened.





WITH ANTI-SLIP SYSTEM **N 15 – 45°**

The safety net has a real talent for adaptation, even for complex roof geometries, as it is simply laid over the ridge. Suitable for barrel, monopitched, gabled and domed roofs – penetration-free, easy to install and inexpensive.



WITH ANTI-SLIP SYSTEM **P 10 – 30°**

The special pitched roof panel with its lightweight structure is used for monopitched and gabled roofs with load transfer at the eaves. The advantages: quick installation, simple cutting to size, low price.



WITH ANTI-SLIP SYSTEM **T 15 – 45°**

The robust support system, which withstands the wind and weather, is suitable for monopitched and gabled roofs. It is stable and has proven itself for a long time, even on steep surfaces with a roof pitch of more than 40°. Thanks to the clever modular system, installation is simple and uncomplicated.

DESIGN ELEMENTS
MODERN GREEN ROOFS

PLANTERS

Closed system

Mobile planting for greater flexibility

Individual design with targeted accents

Made-to-measure according to your preferences

Practical, durable and easy to maintain – our high-quality PLANTERS made from aluminium or stone fibre provide the ideal stage for every type of planting. In many shapes and sizes, colours and textures, they add green accents while also serving as demarcation and fall protection. They also lend the planting an individual character.



EDGE ELEMENTS

Individual shapes and colours

Targeted greening for larger spaces

Increased plant diversity

Elevated planting bed solution for the highest design standards

EDGE ELEMENTS made from or stone fibre – made to measure – open up almost unlimited creative scope on green roofs. With their versatility, the edge elements offer the designer many design possibilities. Larger areas can be delineated beautifully, and water tanks, stairs and seating areas can also be integrated harmoniously.





EDGE TRIM

Demarcation of areas

Design element in

Specific areas

Targeted accents

Our EDGE TRIMS provide a clean, aesthetic edge finish that separates the green roof superstructure from the gravel strip. The strips are also used to free drainage facilities or to form fire protection strips. Recycled aluminium or recycled plastic is used to produce them.



System additions for green roof planting make it possible to create interesting landscapes and plant vegetation with various needs. The use of shrubs and trees as accents is also possible with low superstructures. The green roof therefore becomes an expression of individual style.

DID YOU KNOW...?

On request, our OPTIGRÜN PLANTERS are available with an automated irrigation unit and water level indicator.

TESTED SAFETY
INSTEAD OF UNNECESSARY RISKS.

Minimal care and maintenance measures are carried out, even with extensive green roofs. Safety must be ensured – preferably with our sophisticated and tested systems, which, of course, meet the legal requirements.

OPTISAFE FALL PROTECTION SYSTEM

- Tested and certified
- Independent of the substructure
- Use even during frost

With our patented OPTISAFE fall protection system, we offer two versions for the installation of an attachment point. Together with personal protective equipment, this is a valid alternative to railings as a protective measure during care and maintenance work. Both the OSL type as a linear system parallel to the roof edge and the OPS type as a single attachment point are self-supporting and are installed penetration-free.



SAFETY RAILING

- Penetration-free, held with a superimposed load
- Without thermal bridges
- Type tested and approved
- Functional design

As collective fall protection, we have developed a safety railing in two versions: The GWP railing for the care and maintenance of extensive green and gravel roofs and the GFS railing as an enclosure for escape routes, rescue platforms and assembly points. Both versions are self-supporting and therefore do not interfere with the waterproofing.



SKYGARD – THE RAILING SYSTEM FOR USED ROOFS AND TERRACES

The penetration-free railing system for intensive green roofs is secured with a superimposed load and has proven itself as a tested and recognised safety system. The self-supporting SKYGARD railing system is confirmed by a type statics calculation, with which its stability can be proven drawn up for every property. The custom manufacture of the system components enables quick and easy assembly. The installation takes place without any penetration of the waterproofing, so no intervention in the roof structure is required. With all of the safety requirements,

- Type-tested statics
- Demarcation of areas
- Individual selection of colour and shape
- For public and private areas



DID YOU KNOW...?

The various railing shapes and fillings as well as the RAL colour selection make SKYGARD a stylish design element.

CONSULTING, SERVICE AND EXPERTISE
OPTIGRÜN AS YOUR PARTNER

Strengthening each other's strengths – that's the idea behind our partnerships. The significance that this has in our everyday life is not only evident from the fact that we now count more than 140 partner companies in the OPTIGRÜN network. In addition to the numerous gardening and landscaping companies and construction material trade partners with whom we have been working for years and who share our passion for green roofs, many designers and architects have also placed their trust in us for a long time. This results in synergies in development, designing and implementation that offer unique advantages.

YOU HAVE A PLAN – WE HAVE THE SOLUTION AND A PLAN B

The general rule is: ask if you have questions. Because, for us, helping you with challenges is a matter of course. This starts with advice and service along with design and calculation and by no means ends with installation and assembly by our partners. And, because the first approach might not lead directly to the goal, it is often important to talk about alternatives and new methods. For as long as it takes until the optimal solution is found.

Service requests
Tel. +44 203 5899400
info@optigreen.co.uk

YOU CAN COUNT ON IT – WE ARE THERE WHEREVER YOU NEED US

Of course, intelligent systems must also be economical. This is always the case when an offer meets – or even exceeds – requirements. In our market, this is not just about the quality of the products. It is also our conviction to exceed previous limits and to develop solutions for the most difficult challenges. As the market leader for roof and building greening, we and our partners thus make a crucial contribution to better quality of life in an urban environment.



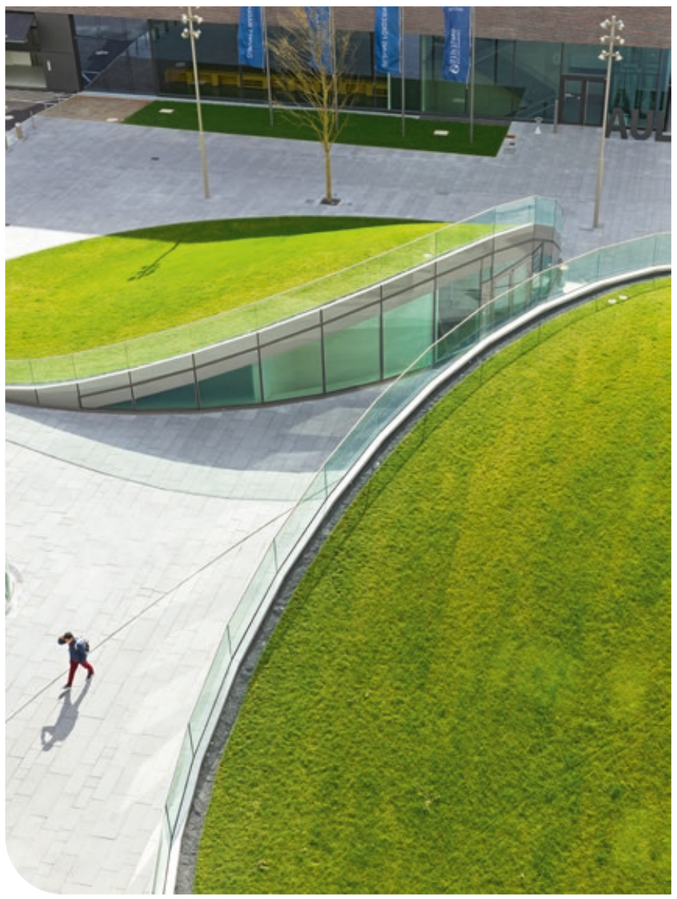
OUR PARTNER TIP!
Save yourself from having to experiment! Trust in your experts at OPTIGRÜN when it comes to roof and building greening and become our partner.

A PICTURE PAINTS
A THOUSAND WORDS

INSPIRATION FOR WHY WE AT OPTIGRÜN GIVE OUR BEST EVERY DAY



































OPTIGRÜN®
ROOF GREENING

PLANS BECOME REALITY WHEN THERE ARE EXPERTS AT WORK

EXPERTISE FROM THE MARKET LEADER – GET IN TOUCH WITH US

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