

COMBINING AND DESIGNING  
SYSTEMATICALLY  
OPTIGRÜN INSPECTION  
CHAMBERS





## FUNCTIONAL, PRACTICAL AND VISUALLY APPEALING. THE OPTIGRÜN INSPECTION CHAMBERS FOR GREEN ROOFS.

There are numerous ways to create green roofs or utilize them as public spaces. This is because the prerequisites that apply when designing them are often highly individual and challenging. Inspection chambers are an essential part of green roof systems in terms of planning and execution.

Flexible in application and individually combinable with accessories, Optigrün creates tailored solutions for extensive and intensive green roofs as well as public roofs. To handle water on green roofs in a targeted manner, the new inspection chambers have connection options for corresponding Optigrün channels and gutters. Any inspection chamber can be enhanced with a matching cover. Alongside appearance, the focus lies above all on user safety. Enhanced products are also indispensable for special areas of application and functions, such as for rainwater management systems.

We offer a unique range of services and consultations backed by a professional team, providing you with the support you need to successfully implement the planning and execution of your project.



### GOOD TO KNOW:

Inspection chambers are usually positioned above roof drainage outlets – this leaves the drainage installations freely accessible so they can be reliably revised.

## ALL THE IMPORTANT INFORMATION AT A GLANCE.

For successful planning and handling of inspection chambers on green roofs with Optigrün.

### SHAFTS FOR EXTENSIVE AND INTENSIVE GREEN ROOFS 04 / 05

As roofs are often subject to individual conditions, Optigrün offers the right shaft for every area of application.

### CONNECTION OPTIONS 06

To handle water on green roofs in a targeted manner, the inspection chambers have suitable connection options for channels and gutters.

### POSSIBLE COMBINATIONS & ACCESSORIES 07

Shaft components with the same dimensions can be combined easily, for instance with extension units and with a silt collector.

### THE MATCHING COVERS 08 / 09

Extensive green roofs, intensively used areas and public roofs are enhanced with a cover. Alongside appearance, the focus lies above all on user safety.

### SPECIAL SHAFTS WITH EXTRAORDINARY FUNCTIONS 10 / 11

Sophisticated shaft solutions are indispensable for special areas of application.

### INSPECTION CHAMBERS FOR PUBLIC AREAS 12

For challenging areas of application – especially on public areas that are accessible to vehicles.

### SIMPLE AND PRACTICAL 13

A modular system that impresses in practice.

### EVERYTHING AT A GLANCE 14 / 15

The Optigrün shaft range with accessories as an overview.

# PRACTICAL SOLUTIONS. OPTIGRÜN INSPECTION CHAMBERS.

Inspection chambers are an important part of green roof systems and help to maintain their function in the long term. Because roofs are often subject to individual and challenging conditions, Optigrün offers the right solution for every situation.

It is possible to adapt the products flexibly and, if necessary, combine them with accessories. After all, it is the details that complete the green roofs.

## INSPECTION CHAMBERS FOR GREEN ROOFS

### EXTENSIVE GREEN ROOFS

Solutions for  
public roofs  
from page 10.



#### Edge inspection chamber **RSA 25**

Handy and perfectly suited to installation on the edge of extensive green roofs. The shaft is supplied with a cover and can optionally be extended in 50mm or 100mm increments.

- L 250 x W 250 x H 80 mm
- Material: Aluminium



#### Negative pressure drainage inspection chamber **FSA 40U**

Inspection chamber with connection options for open triangle discharge channels – made to safely and reliably drain large quantities of water. If even higher drainage capacities are required, the Optigrün release UDE can be used. The shaft can be extended flexibly and can be combined with all covers measuring 400x400 mm.

- L 400 x W 400 x H 140 mm
- Material: Aluminium

#### OVERVIEW:

A tabular overview of all inspection chambers & accessories can be found on inside pages 14 – 15.

### EXTENSIVE & INTENSIVE GREEN ROOFS



#### Inspection chamber **FSK 37**

Proven and cost-effective inspection chamber including cover for use in green roofs. The shaft is supplied flat and simply assembled on the building site – this saves space and CO<sub>2</sub> during transport. Extension in 10 cm increments is possible without any problems. An aluminium cover is used for intensive green roofs.

- L 370 x W 370 x H 110 mm
- Material: Recycled plastic



#### Inspection chamber **FSA 40**

Can be used universally for surfaces and edge areas. The shaft can be extended flexibly and can be combined with all covers measuring 400 x 400 mm.

- L 400 x W 400 x H 100 mm
- Material: Aluminium



#### Pipe transfer inspection chamber **FSA 40R**

Ideal solution for the targeted discharge or drainage of rainwater on green roofs via a pipe. The shaft can be extended flexibly and can be combined with all covers measuring 40x40 cm.

- L 400 x W 400 x H 140 mm
- Material: Aluminium



# GOING WITH THE FLOW. CONNECTION OPTIONS.

To handle water on green roofs in a targeted manner, the inspection chambers have connection options for Optigrün channels and gutters.

The pre-cut connections can simply be bent or broken out as required.



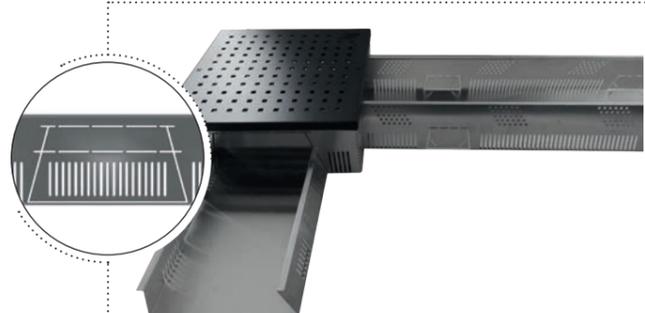
### CONNECTIONS & ACCESSORIES:

We have listed the corresponding connection options and accessories for each Optigrün inspection chamber in our overview on inside pages 14 – 15.



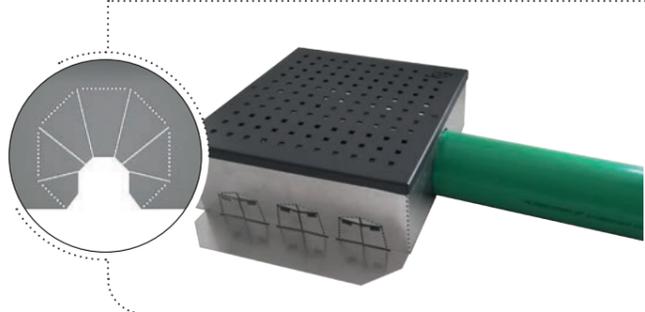
#### Connection for triangle water conduits WKA and WKK

Combined connection option for Optigrün triangle water conduits made from aluminium (WKA) and plastic (WKK).



#### Connection for triangle discharge channels WRA

Breakaway connections for Optigrün triangle discharge channels WRA.



#### Connection for pipes DN 125

Connection option for a pipe DN 125 – suitable both for discharge and drainage in and out of the shaft.

# COMBINATIONS TO SUIT YOUR NEEDS. ACCESSORIES FOR INSPECTION CHAMBERS.

Inspection chambers and accessories from Optigrün can be combined more easily and in more varied ways than ever – all of the products fit together with the same external dimensions and are connected in a stable way with rivet nuts and the screws supplied.



- 1 Cover
- 2 Silt collector
- 3 Extension unit
- 4 Inspection chamber



#### Inspection chamber extension unit 5/10 cm

Extension units to easily adjust the height of inspection chambers depending on the substrate height of the green roof structure.

##### ASA 25-5/ASA 25-10

- L 250 x W 250 x H 50/100 mm
- Material: Aluminium

##### ASK 37-10

- L 370 x W 370 x H 100 mm
- Material: Recycled plastic

##### ASA 40-5/ASA 40-10

- L 400 x W 400 x H 50/100 mm
- Material: Aluminium

##### ASA 54-5/ASA 54-10

- L 540 x W 440 x H 50/100 mm
- Material: Aluminium



#### Inspection chamber extension unit 6-9.5 cm ASA 40-6/9.5

Two-part extension unit with variable adjustment option from 60 – 95 mm in 5 mm increments, ideal for adjacent floor surfaces.

- L 400 x W 400 mm
- Material: Aluminium



#### Silt collector SSA 40

A sensible addition in inspection chambers. The silt collector can be easily removed for cleaning and revising.

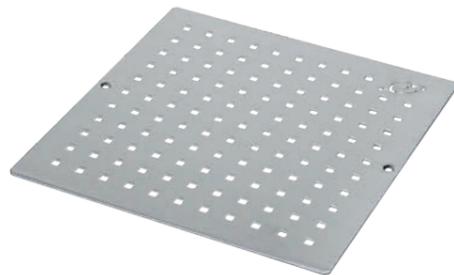
- L 400 x W 400 x H 40 mm
- Material: Aluminium

# THE RIGHT COVER FOR EVERY GREEN ROOF.

The inspection chamber covers that are used to cover the shafts are just as diverse as the areas of application for the inspection chambers. Extensive green roofs and intensive surfaces on underground

garages and roof terraces are enhanced with the covers. Alongside appearance, the focus for inspection chamber covers also lies on the safety of the people who use the roof areas.

## EXTENSIVE GREEN ROOFS



### Extensive green roofs

- Material: Aluminium
- With inlet openings
- Load-bearing capacity: 300 kg

■ Inspection chamber cover **DSA 25E**  
L 250 x W 250 mm

■ Inspection chamber cover **DSA40E**  
L 400 x W 400 mm

■ Inspection chamber cover **DSA 54E**  
L 540 x W 440 mm



### Extensive green roofs

- Material: Plastic (recycled ABS)
- With inlet openings
- Load-bearing capacity: 150 kg

■ Inspection chamber cover **DSK 37E**  
L 370 x W 370 mm

## INTENSIVE GREEN ROOFS



### Intensive green roofs and terraces accessed on foot

- Material: Aluminium with non-slip coating (R11)
- With inlet openings
- With folded edge and underside reinforcement
- Load-bearing capacity: 800 kg

■ Inspection chamber cover **DSA 37I**  
L 370 x W 370 mm

■ Inspection chamber cover **DSA 40I**  
L 400 x W 400 mm

■ Inspection chamber cover **DSA 54I**  
L 540 x W 440 mm

## CLOSED

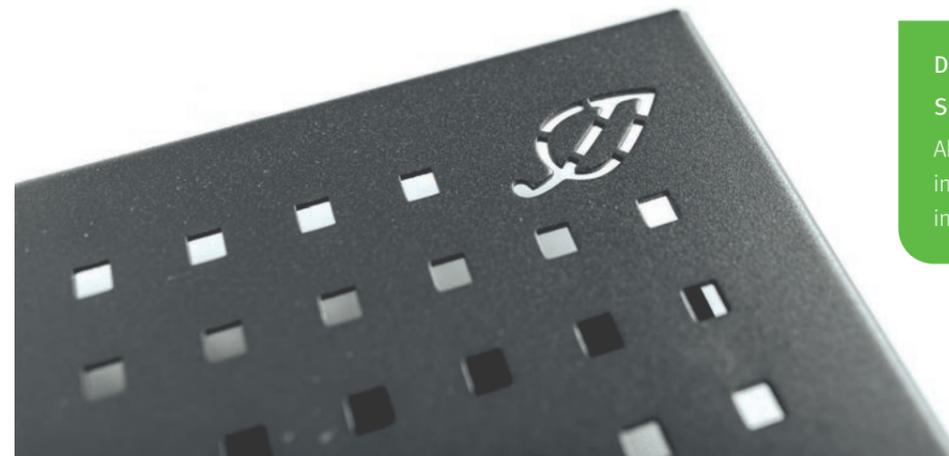


### Recommended for inspection chambers over roof drainage outlets with flow control systems

- Material: Aluminium with non-slip coating (R11)
- Without inlet openings
- With underside reinforcement
- Load-bearing capacity: 800 kg

■ Inspection chamber cover **DSA 40D**  
L 400 x W 400 mm

■ Inspection chamber cover **DSA 54D**  
L 540 x W 440 mm



DO YOU LIKE A SPLASH OF COLOUR?  
SO DO WE!

All of the aluminium inspection chamber covers in all sizes can also be obtained from Optigrün in your preferred colour.

# SPECIAL SHAFTS WITH EXTRAORDINARY FUNCTIONS.

For specialised applications and functions, such as rainwater management systems, reliable shaft solutions are essential. The Optigrün product range

comprises products that ensure seamless installation and long-term functionality.



**DOWNSPOUT EDGE INSPECTION CHAMBER RSA 40FO**

Ideal solution to discharge water from downspouts with a vertical outlet in drainage and retention layers. The shaft can be extended flexibly.

- L 400 x W 400 x H 200 mm
- Material: Aluminium

Accessories:

**Downspout inspection chamber cover DSA 40FO**

High-quality cover with pipe holder and different facings for the RSA 40FO.



**DOWNSPOUT EDGE INSPECTION CHAMBER RSA 40FS**

Shaft to easily accommodate downspouts with a horizontal outlet – the inlet height can be adapted variably.

The shaft can be combined with all covers measuring 40x40 cm and can be extended flexibly

- L 400 x W 400 x H 265 mm
- Material: Aluminium



**PIPE TRANSFER EDGE INSPECTION CHAMBER RSA 54R**

Unique product to drain water in downspouts from drainage and retention layers over the edge of underground garages. The shaft can be extended flexibly, can be combined with all covers measuring 54x44 cm and has two connection options for pipes DN 110.

- L 540 x W 440 x H 305 mm
- Material: Aluminium

Accessories:

**Flow control system RDA 110**

Flow control solution when using the pipe transfer edge inspection chamber on retention roofs.



**LIGHTWEIGHT ROOF INSPECTION CHAMBER FSA 40L**

Particularly low inspection chamber for greening on lightweight roofs up to a substrate height of 50 mm. The cover is supplied

- L 400 x W 400 x H 52 mm
- Material: Aluminium

# FOR CHALLENGING AREAS OF APPLICATION. INSPECTION CHAMBERS FOR PUBLIC AREAS.

Roof areas can be used in many ways. Traffic routes, in particular, require careful planning and sophisticated products.

The requirements on inspections chambers are also significantly higher on a public roof than in greened surfaces. Products that are particularly resilient and coordinated with the use of the space are thus essential.



## INSPECTION CHAMBER FSA 40



The all-rounder among inspection chambers can be used in combination with the inspection chamber cover DSA 40 I on terraces that are accessible on foot.

- L 400 x W 400 x H 100 mm
- Material: Aluminium

Accessories:

- Extension units H 50/100 mm
- H 60 - 95 mm
- Silt collector

## TOP PIECE FOR ROOF DRAINAGE OUTLETS



Inspection chambers with grating insert for installation in floor surfaces used on foot. Available in many sizes and heights.

- L 300 x W 300 mm
- L 400 x W 400 mm
- L 500 x W 500 mm
- Material: Stainless steel or galvanised steel
- Fixed height: 50 mm
- Height adjustable:
  - 55 – 78 mm
  - 78 – 108 mm

Accessories:

- Extension units H 30/60/120 mm

## POLYMER CONCRETE INSPECTION CHAMBER



Highly resilient shaft for use in public areas where vehicles circulate. Suitable up to a vehicle weight of 16 t and a low frequency of use.

- L 500 x W 500 x H 100 mm
- Material: Polymer concrete

Accessories:

- Extension units H 60/250 mm
- Silt trap
- Load distribution panel (according to design)

## A SYSTEM THAT IMPRESSES IN PRACTICE.

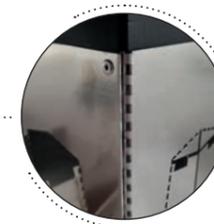


The installation and revising of Optigrün inspection chambers is quick and simple. No special tools are required. Thanks to the modular system, the products can be adapted flexibly to suit the conditions.



### Insulating wedge profile

Shafts designed for use in edge areas (FSA 40, RSA 25, RSA 40FS, RSA 40FO) have a pre-cut insulating wedge profile that can be detached if required.



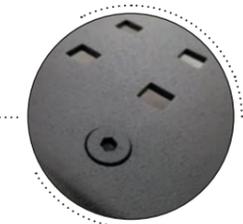
### Riveting

Stable preassembled inspection chambers and extension units make assembly easier.



### Rivet nuts

Rivet nuts in inspection chambers and accessories enable quick, easy installation.

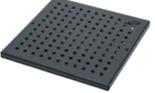
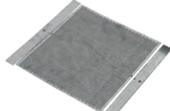
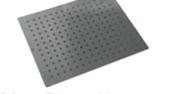


### Sunken screws

The screws of the inspection chamber cover lie flush with the top side. For coated covers, they are supplied in the same colour as the cover.

# GREEN ROOF

Overview of inspection chambers with corresponding accessories for green roofs.

	Designation	Area of application	Connections	COVER			EXTENSION UNITS			ACCESSORIES
				Extensive	Intensive	Closed	5 cm	10 cm	Adjustable	
	<b>Edge inspection chamber</b> <b>RSA 25</b> Item No.: 16631	Handy and perfectly suited to installation on the edge of extensive green roofs.	3x WKK	Supplied						
	<b>Inspection chamber</b> <b>FSK 37</b> Item No.: 15056	Proven and cost-effective inspection chamber for use in green roofs.	8x WKK	Supplied						
	<b>Inspection chamber</b> <b>FSA 40</b> Item No.: 31922	Can be used universally Inspection chamber for surfaces and edge areas	12x WKK or 8x WKA							
	<b>Pipe transfer inspection chamber</b> <b>FSA 40R</b> Item No.: 31924	Ideal solution for the targeted discharge or drainage of rainwater on green roofs via a pipe.	1x pipe DN 125 9x WKK or 6x WKA							
	<b>Negative pressure drainage inspection chamber</b> <b>FSA 40U</b> Item No.: 31925	Inspection chamber with connection options for open triangle discharge channels to drain large quantities of water.	4x WRA 25-12							
	<b>Downspout edge inspection chamber</b> <b>RSA 40FS</b> Item No.: 31904	Shaft to easily accommodate downspouts with a horizontal outlet.	9x WKK or 6x WKA							
	<b>Downspout edge inspection chamber</b> <b>RSA 40FO</b> Item No.: 31901	Ideal solution to discharge water from downspouts with a vertical outlet in drainage and retention layers.	9x WKK or 6x WKA							
	<b>Lightweight roof inspection chamber</b> <b>FSA 40L</b> Item No.: 31923	Particularly low inspection chamber for greening on light-weight roofs up to a substrate height of 50 mm.		Supplied						
	<b>Pipe transfer edge inspection chamber</b> <b>RSA 54R</b> Item No.: 31920	Unique product to drain water in downspouts over the edge of underground garages.	5x WKK or 5x WKA  2x pipe DN 110							

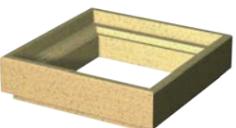
PUBLIC ROOF

ACCESSORIES

Designation	Extension units	Grating
 <p>Top piece for roof drainage outlets*</p>	 <p>30 mm / 60 mm/ 120 mm</p>	
Area of application	Connections	Silt collector
For installation in floor surfaces used on foot.	3x branch channel	 <p>SSA 40 Item No.: 31919 for 400 x 400 mm</p>

Overview of inspection chambers with corresponding accessories for public roofs.

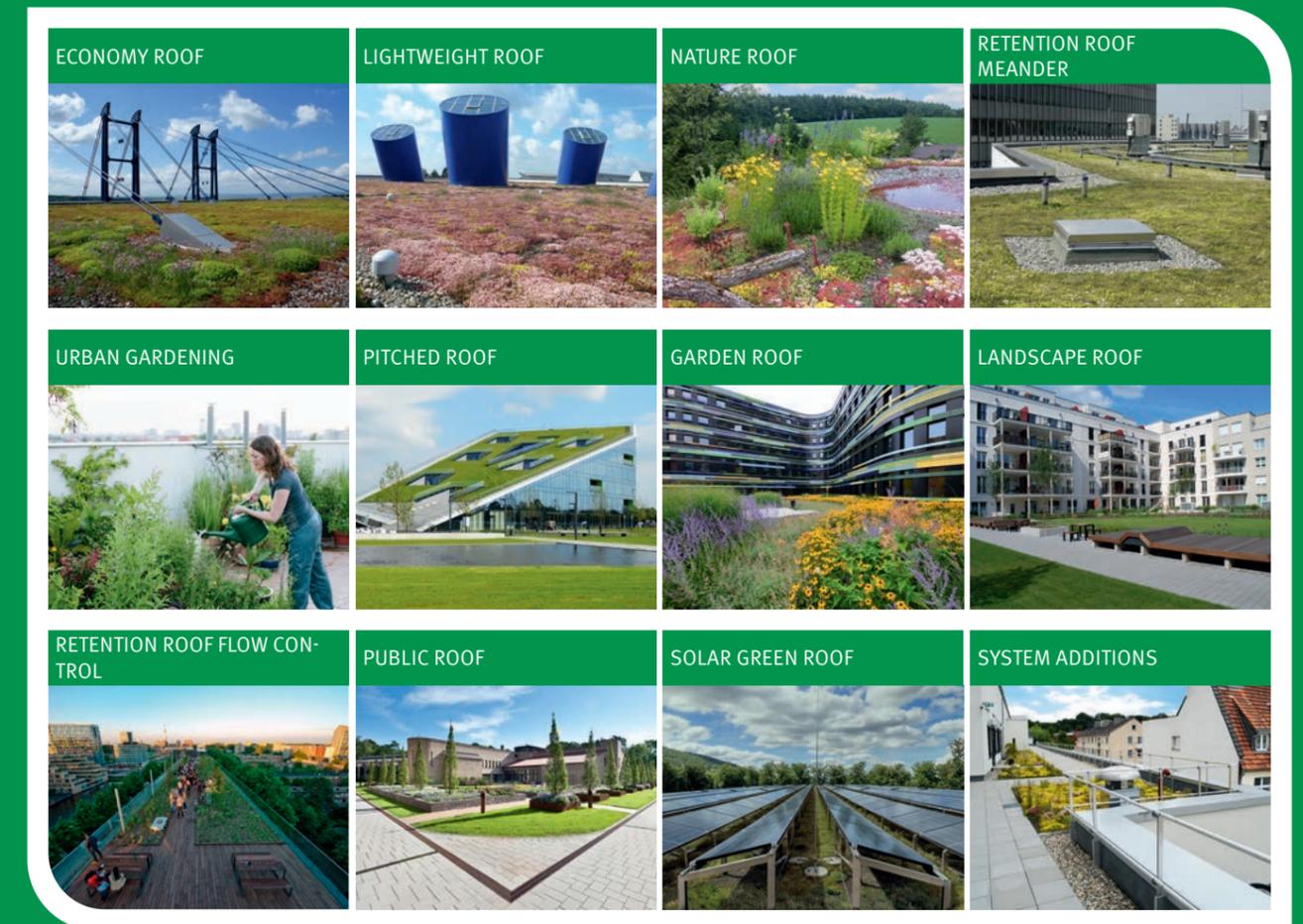
ACCESSORIES

Designation	Extension units	Grating
 <p>Polymer concrete inspection chamber PBK Item No.: 14146</p>	 <p>60 mm Item No.: 14147</p>  <p>250 mm Item No.: 14148</p>	 <p>Galvanised steel Item No.: 30856</p>  <p>Cast iron Item No.: 14149</p>
Area of application		Silt collector
Highly resilient shaft for use in public areas where vehicles circulate.		 <p>Silt trap Item No.: 14150</p>

\* Item number dependent on size and material

YOUR PLAN FOR THE GREEN ROOF.  
WITH PRODUCTS FROM THE EXPERT.

As specialists in a wide range of green roof systems with over 50 years of experience, we offer a comprehensive product range with individual solutions that cater to all requirements. We are happy to support you in your current project with innovative technologies and comprehensive services and consulting.



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