DRAINAGE PLANNING RETENTION ROOF FLOW CONTROL

General information about the project:

Date:

Company:			
Contact person:		Telephone:	
Street:		Mobile:	
Postcode / Town:		E-mail:	
Project name:			
Street:			
Postcode / Town:		**Optigrün Object-No.:**	

Planning requirements:

Requested max. discharge rate: l/s

or other specification: (e.g. required m^3/cbm)

Roof pitch Retention Roof Flow Control: **requirement 0° (degree)**

Roof pitch other roof surfaces: in degree (e.g. Meander Roofs)

Flooding test according to DIN 1986/100: ☐ Yes ☐ No

If so, required annuality: ☐ 30 years ☐ 100 years If not, annuality 5 years

Roof loads:

Permanent roof loads:

Max. distributed load kg/m²

Information about the maximum traffic load:

Roof description:	Max. traffic load on the roof:

We also require the following planning documents relating to the building in order to process your application quickly and efficiently:
Top view of the roof with measurements and with necessary contents, see example plan page 2.

Detailed planning documents are essential for a binding execution planning. Please send the necessary data in digital from (if possible dwg or vwx) together with the completed checklist to the following e-mail address:

retention@optigruen.de

Note: One preparation per work phase by the Optigrün Application Technology is free of charge for you. For other versions or modifications Optigrün will invoice 250 €.

Optigrün international AG

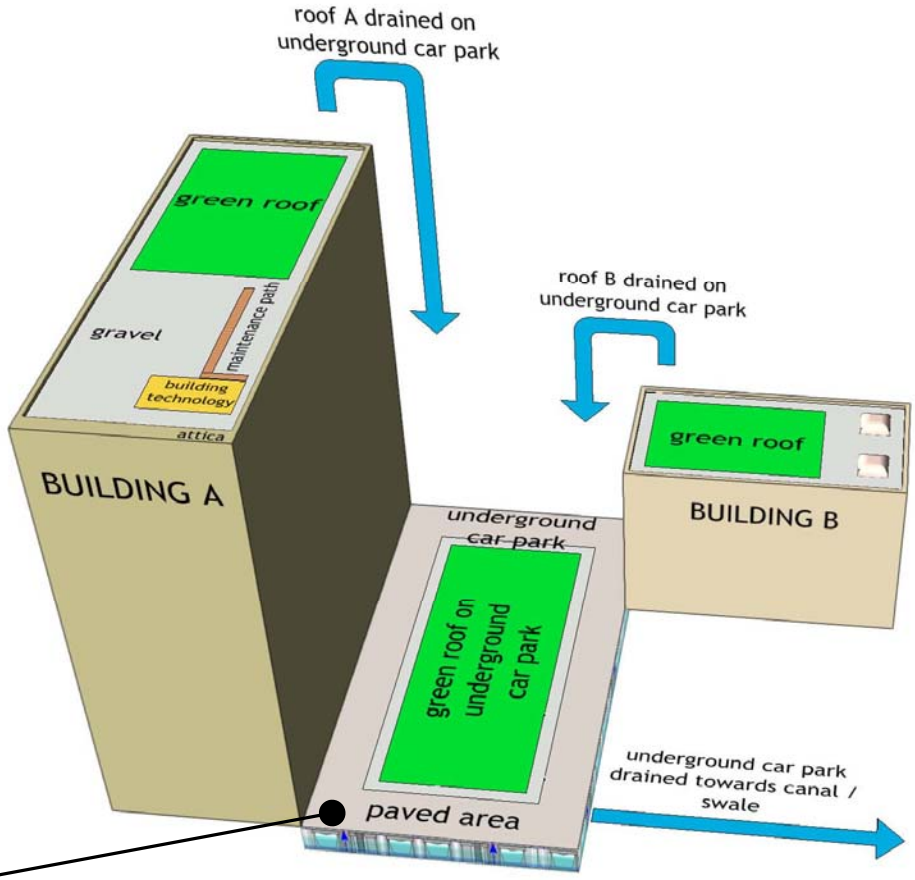
Am Birkenstock 15 – 19, 72505 Krauchenwies-Göggingen, Germany
Phone +49 7576 772-0, info@optigruen.de

APPLICATION EXAMPLE

Name of the catchment area	Substrate in mm[1)]	Number of roof drains	Drained to	Type of surface	Roof structure [3,4,5,6)]	Surface in m²	Surface with WRB[2)]
Roof A	120	2	*Underground parking*	*Green roof*	*UkD*	*138*	☐
Roof A				*Gravel/pebble*		*220*	☐
Roof A				*Maintenance path (concrete slabs)*		*12*	☐
Roof A				*Attica*		*40*	☐
Roof B	80	1	*Underground parking*	*Green roof*	*WaD*	*122*	☐
Roof B				*Gravel/pebble*		*52*	☐
Roof B				*Attica, skylights*		*21*	☐
Underground parking	350	3	*Trenching*	*Green roof*	*UgD*	*175*	☐
Underground parking				*Surface type (paving, concrete slab, waterbound covering, etc.)*		*210*	☐
Underground parking				*Gravel/pebble*		*45*	☐

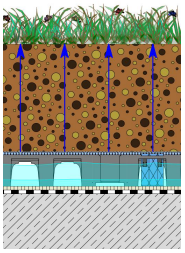
Please specify k_f value for trenching:	$5 \cdot 10^{-4} - 5 \cdot 10^{-5}$	m/s
Potentially possible area of the trenching:	*20*	m²

- All areas in m², green areas incl. substrate height in mm
- Trenching with k_f value and potentially possible area

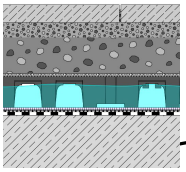


Section WRB 85/95

Greening on the WRB 85



Paved areas on WRB 85/95



WRB 85/95 on the entire underground parking surface

AWTF.015 - Checkliste Entwässerungsplanung Retentionsdach Drossel Stand 28.01.2019

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					Total		

Please specify k_f value for trenching:		m/s
Potentially possible area of the trenching:		m²

1) If green roof, indicate substrate height
2) WRB = Water Retention Box (Plastic cavity body)
Possible under gravel/pebble and paving

3) UgD = Uninsulated concrete ceiling
4) WuB = Waterproof concrete ceiling

5) WaD = Warm roof
6) UkD = Inverted roof

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