# Checklist for Stormwater Management Roof

**Please complete a separate check list for each roof area and return them to**
office@zinco-greenroof.co.uk

| | |
|---|---|
| Project name: | ..................................................................... Date: ............................. |
| Street, house number: | .................................................................................................... |
| Postal code, city: | .................................................................................................... |
| Roof area*: | .................................................................................................... |

| | |
|---|---|
| Planner: | .................................................................................................... |
| Contact person: | .................................................................................................... |
| Street, house number: | .................................................................................................... |
| Postal code, city: | .................................................................................................... |
| Phone number: | .................................................................................................... |

**Requirements:** **Roof surface without inclination and with a sufficient load bearing capacity**

Roof construction ❑ roof without insulation ❑ insulated roof ❑ inverted roof ❑ roof in timber construction

Maximum admissible load .......................kN/m² live load and snow load not included)

**Roof surfaces:** Please state the runoff coefficient (C**) if it needs to be considered in the calculation!

**Total area** (outer edge),
 = a) + b) .................. m²

a) **Available
 retention area***** .................. m²

| | | | | |
|---|---|---|---|---|
| Green area extensive | .................. m² | C= .............. | Substrate depth | .................. mm |
| Green area intensive | .................. m² | C= .............. | Substrate depth | .................. mm |
| Walkway | .................. m² | C= .............. | | |
| Driveway | .................. m² | C= .............. | | |
| Gravel | .................. m² | C= .............. | | |

b) **Areas without
 retention** .................. m²

| | | | | |
|---|---|---|---|---|
| Parapet | .................. m² | C= ............. | Further areas without retention volume | .................. m²  C= ............. |

\*    Please number the single areas and indicate them in the overview plan.
\*\*   According to DIN 1986-100, the average runoff coefficient Cm is used to calculate the volume of stormwater retention facilities.
\*\*\* Total area minus parapet, skylights, and any further areas which do not allow for retention.

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**Roof outlets:**
- ❏ roof outlets with foamed connecting flange
- ❏ roof outlets with screw-in flange
- ❏ roof outlets through the upstand

| | | | |
|---|---|---|---|
| Number of outlets | ..……..……………… pieces | Diameter | …………………………….. mm |
| Max. discharge rate for the relevant roof | .……………………….. l/s | Discharge restriction property-related | ……………………….……… l/s |

**Discharge into this roof from other roof surfaces (please add up areas with the same build-up):**

| | | | |
|---|---|---|---|
| Roofs with extensive greening | ………….. m² | Runoff coefficient C ………….. | Roofs covered with gravel ………….. m² | Runoff coefficient C ………….. |
| Roofs with intensive greening | ………….. m² | Runoff coefficient C ………….. | Roofs with hard surfaces ………….. m² | Runoff coefficient C ………….. |

**Further information / requirements (if known)**

| | | |
|---|---|---|
| Retention volume | .………………………… m³ | Duration of discharge ….……….….……………... h |
| Retention height | .……………………….… mm | |
| Type of flow controller | ❏ ZinCo | ❏ Other ………………………….…... |

**Which design rain event is to be taken into consideration?**

Annuality / frequency / return period:  ❏ 20  ❏ 30  ❏ 50  ❏ 100  ❏ Other

**Precipitation pattern for the design rain event** (required information)

| Duration [min] | | 5 | 10 | 15 | 20 | 30 | 45 | 60 | 90 | 120 (2 h) | 180 (3 h) | 240 (4 h) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Rainfall Intensity | [l/s*ha] | | | | | | | | | | | |
| | or [mm/h] | | | | | | | | | | | |

| Duration [hours] | | 6 | 9 | 12 | 18 | 24 | 72 (3 d) | 96 (4 d) | 120 (5 d) | 144 (6 d) | 168 (7 d) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Rainfall Intensity | [l/s*ha] | | | | | | | | | | |
| | or [mm/h] | | | | | | | | | | |

**Note:**

Please provide top view plans in DWG- (or DXF-) format if available, alternatively PDF-documents with reference dimensions.

Further comments or requests:

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ZinCo

Life on Roofs