

Factsheet

Contec.greenlight on top

Important tips for a well-functioning EnergyGreenRoof

- The Contec.greenlight on top system is designed for existing green roofs or gravel roofs.
- The development of the greenery must be observed well in the first year after the installation of the PV system and measures must be taken if necessary.
- The substrate layer structure should be as level/parallel to the roof deck as possible (level out if necessary).
- Before installation, the installation instructions as well as the installation notes must be observed.
- Observe ballasting / ballast weights according to plan.
- A special seed mixture must be used for the EnergyGreenRoof (low-growing).
- At least 2 - 4 maintenance passes per year are necessary for the EnergyGreenRoof.
- When maintaining the green roof, ensure that no damage occurs to the PV systems.
- High-growing plants must be removed manually or with suitable equipment (no string mowers, as these could damage the power cables and contaminate the PV panels).
- Fall protection must be planned in accordance to the guidelines.

Advantages of Contec.greenlight on top

- Can be used on existing green and gravel roofs.
- Low additional weight due to surface compound of the PV system weight per unit area max. $\sim 45 \text{ kg/m}^2$ (including PV module, ballast and substrate construction)
- No loss of yield due to shading of plants (module height lower edge min. 30 cm from substrate)
- Ecological added value through high biodiversity of the flat roof thanks to the combination of PV and greening
- Quick and easy installation
- No accumulation of heat under the panels; for every 1°C cooler PV module, the additional output increases by 0.35 - 0.45
- No roof penetration
- Simple integration of fall protection
- Optimal use of roof area
- Easy maintenance of the planting, control and cleaning thanks to increased installation -> approx. 50 % less maintenance than with flat modules on vegetation
- Snow slides off quickly

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Service Contec

We create

- Occupancy planning based on a proposal
- Substructure plan
- Installation plan incl. load calculation

The planning of the fall protection system Contec.safe is taken into consideration

On the roof

- Installation of the substructure and guardrails incl. acceptance test
- Seeding with suitable seeds
- Visual inspection of the PV system
- Annual roof maintenance according to checklist
 - Maintenance of greenery
 - Inspection of guardrails
 - Inspection of plumbing work and connections
 - Cleaning of PV panel

