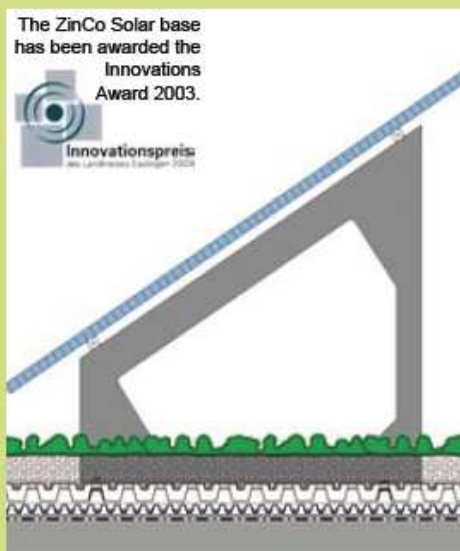


Green Roofs with Solar Power

Benefits:

- no penetration of the waterproofing
- even load distribution, no high point loads
- no transport of heavy parts
- no obstruction of drainage
- Green Roof build-up provides necessary load to keep the structure in place
- complete assembly for immediate installation

Wind Calculations are required.



Solar Panel

Solar Base Frame SGR 35/90

Pregrown vegetation mats or Plug Plants FB 50 "Sedum Carpet" or Sedum Cuttings

Growing Medium ZinCo Blend-E

ZinCo Solar Base SB 200
Protection Mat SSM 45,
Root Barrier WSF 40,
if waterproofing is not root-resistant



	Art.-No.	Unit
Sedum Cuttings	8020	bag of 2 kg
Plug Plants FB 50 "Sedum Carpet"	8110	tray with 50 pcs.
Pregrown vegetation mats	8030	m ²



	Unit	Art.-No.	Unit	Art.-No.	Unit	Art.-No.
Growing Medium ZinCo Blend-E	big bag	6121	bulk	6122	silo	6123



	Art.-No.	Dimensions	Unit	Pallet
Solar Base SB 200	3460	ca. 2.00 m x 1.00 m	board	30 boards



	Art.-No.	Dimensions	Unit
Solar Base Frame SGR Alu 35/90	9700	950 x 350/900 mm	piece



	Art.-No.	Unit
Wind Bracing "Aluminium" SGR Alu 35/90	9710	piece



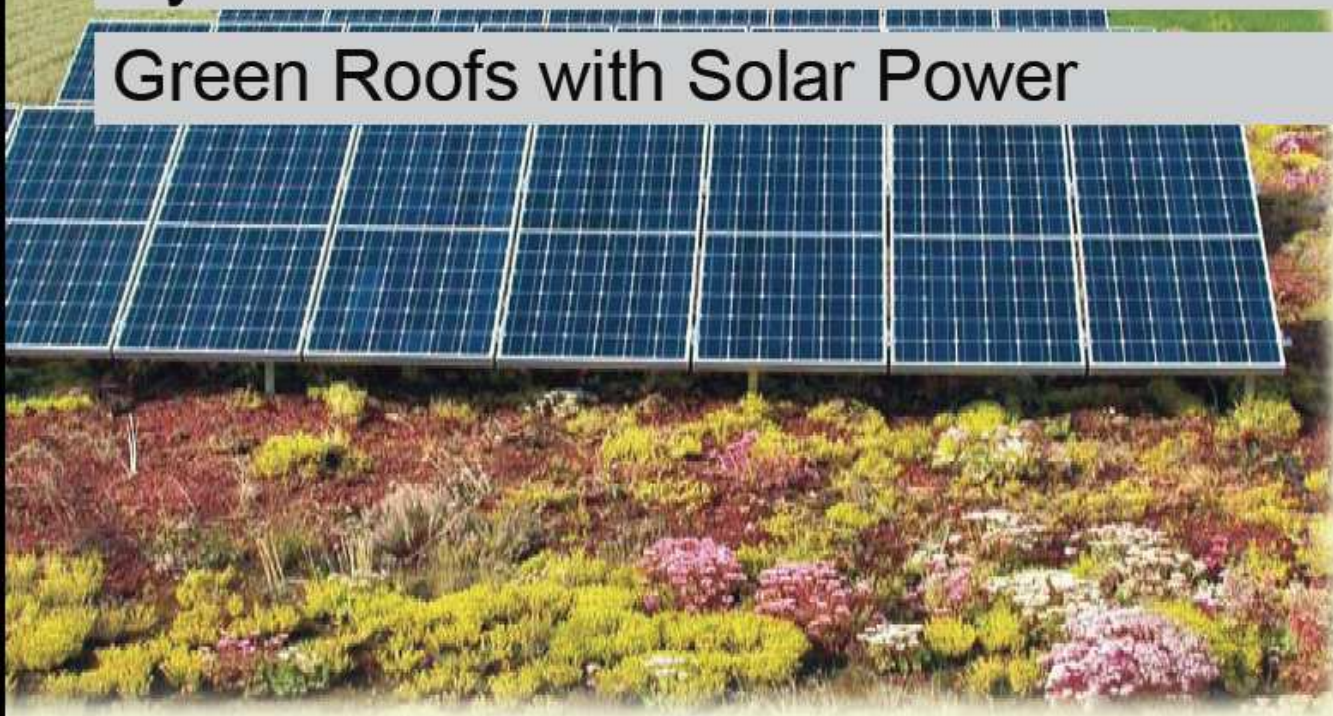
	Art.-No.	Dimensions	Unit
Protection Mat SSM 45	2045	ca. 2.00 m x 50.00 m	100 m ² -roll



	Art.-No.	Dimensions	Unit	Pallet
Root Barrier WSF 40	1040	ca. 8.00 m x 25.00 m	200 m ² -roll	4600 m ²
	1041	ca. 6.25 m x 20.00 m	125 m ² -roll	2500 m ²
	1044	ca. 3.00 m x 33.50 m	100.5 m ² -roll	2211 m ²
	1043	ca. 2.00 m x 50.00 m	100 m ² -roll	2600 m ²
	41040	ca. 6.25 m x 3.20 m	20 m ²	600 m ²

Hybrid Solutions

Green Roofs with Solar Power



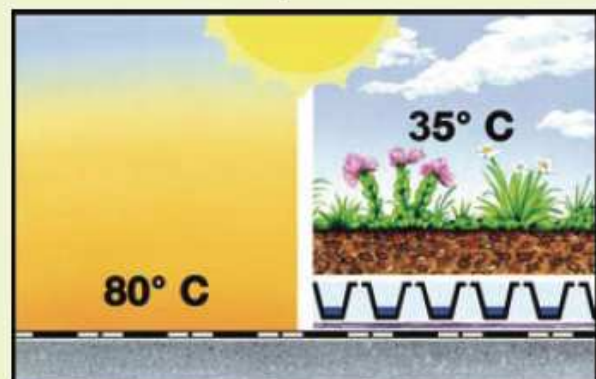
Green Roofs include a range of benefits. They can add thermal insulation, protect the waterproofing, improve biodiversity, retain storm water and improve the micro-climate. ZinCo extend the advantages of Green Roof technology with the development of support bases for solar panels. With the innovative Solar Base, solar energy can be integrated into Green Roof Systems without penetration of the roof membrane, the Green Roof build-up providing the necessary load to keep the structure in place. The Solar Base can be used for photovoltaic as well as for solar water heating applications.

The efficiency of Solar Panels is improved with a Green Roof.

Photovoltaic panels convert sunlight into electrical current. Their efficiency drops by 0.5 % for every degree above 25° C. The cooling effect of a green roof can significantly improve the efficiency of the solar panel.

The inclusion of solar power can be seen as another valuable ecological benefit and will contribute towards compliance with various building regulations, environmental standards and assessments. Furthermore, this system makes use of synergy effect, as the efficiency of solar panels is significantly improved with a Green Roof.

Possible surface temperature on a hot summer day:



Non-protected roof area:
Surface temperature above 80°C
Green Roof area:
Surface temperature only 35°C

