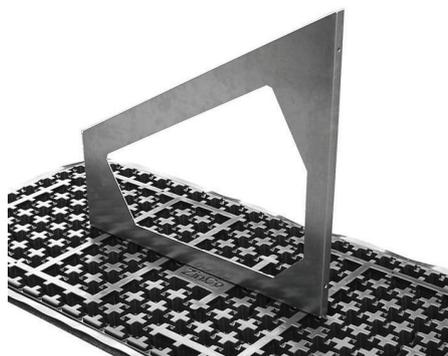




Product Data Sheet

Solar Base Frame SGR



Base Frame made of aluminium, designed for its use on green roofs, manufactured in one piece, structurally proven; matched to the ZinCo Solar Base Frame SB 200.

Please be aware of the accessories program (wind bracings, height adjustment, adapter and mounting profiles).

Technical Data

Solar Base Frame SGR

Structurally proven aluminium frame, manufactured in one piece, matched to ZinCo Solar Base SB 200.

Material: **AlMg3**
 Colour: **Natural aluminium**
 Length: **ca. 950 mm**
 Front height: **ca. 350 mm**

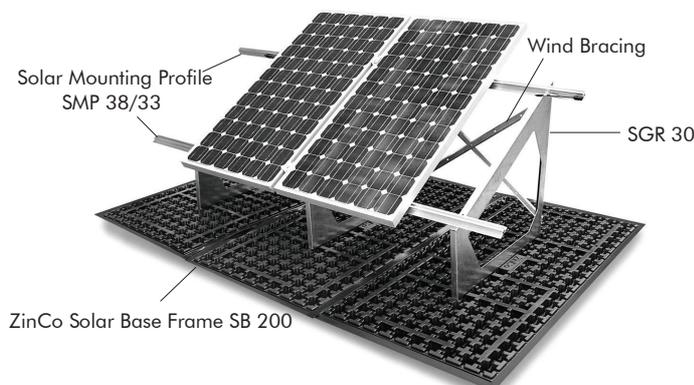
| Type: | Order No.: | Inclination: | Rear height: | Weight: |
|--------|------------|--------------|--------------|--------------|
| SGR 5 | 970005 | 5° | 430 mm | 2.3 kg/piece |
| SGR 10 | 970010 | 10° | 520 mm | 2.3 kg/piece |
| SGR 15 | 970015 | 15° | 610 mm | 2.4 kg/piece |
| SGR 20 | 970020 | 20° | 700 mm | 2.5 kg/piece |
| SGR 25 | 970025 | 25° | 790 mm | 2.6 kg/piece |
| SGR 30 | 970030 | 30° | 900 mm | 2.7 kg/piece |
| SGR 35 | 970035 | 35° | 1020 mm | 2.8 kg/piece |
| SGR 40 | 970040 | 40° | 1150 mm | 2.9 kg/piece |
| SGR 45 | 970045 | 45° | 1300 mm | 3.0 kg/piece |

Features

- aluminium support frame manufactured in one piece, ready for installation; structurally proven, in use for more than 10 years
- inclination to be chosen in 5° steps between 5° and 45°
- easy to assemble without small parts
- low weight
- variable use due to pre-punching, therefore suitable for all common modules and collectors
- standard frame height prevents shading by plants or snow; other frame dimensions available on demand.

Application Example

“Photovoltaic plant”



Specification Suggestion

Structurally proven aluminium frame for the installation of photovoltaic / solar thermal plants, to be delivered and screwed onto the ZinCo Solar Base SB 200. Pre-punched for the installation of the Solar Mounting Profile SMP 38/33. Length ca. 950 mm, front height ca. 350

mm, inclination° (please fill out, inclinations between 5° and 45° possible, in 5° steps).

Make: ZinCo Solar Base Frame SGR
 Enquiries: ZinCo Green Roof Systems Ltd.
 Phone: +44 (0)1993 229 700

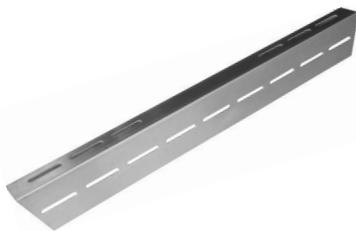


Product Data Sheet

Accessories for Solar Base Frame SGR

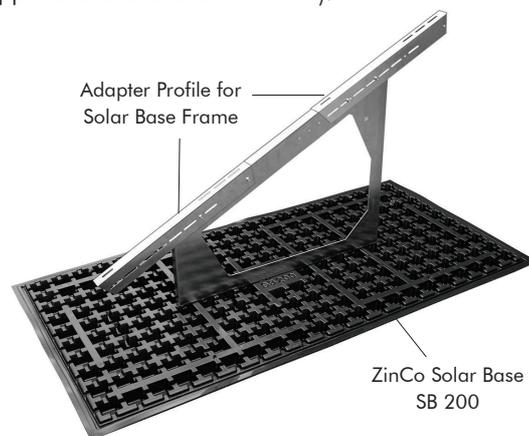
Adapter Profile

Order No. 9706



Adapter Profile manufactured from one piece, allows for the installation of particularly large modules on the ZinCo Solar Base Frame SGR. Up to two Adapter Profiles can be mounted on each SGR (one at the upper end and one at the lower).

Fixation with minimum 2 screws per profile. Contact surface to the Base Frame min. 250 mm long, to allow for adapter profiles to cantilever max. 450 mm.



Max. distance between mounting profiles/ rails when using two adapter profiles per base frame

SGR 25 = 1.86 m / axis to axis
 SGR 30 = 1.91 m / axis to axis
 SGR 45 = 2.16 m / axis to axis

Material: Aluminium
 Length: ca. 700 mm
 Weight: ca. 0.45 kg

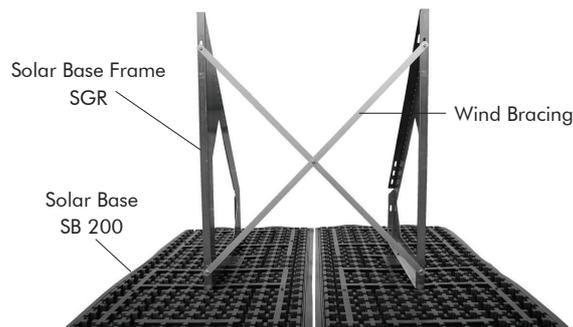
Wind Bracing

Order No. 971005 - 971045

Two pre-punched aluminium profiles for crosswise stabilization of two Solar Base Frames (distance 1.0 m); incl. stainless steel screws. In case of a photovoltaic systems, install wind bracings in a distance of max. 10 m (axial dimension), in case of solar thermal plants in a distance of max. 7 m. Due to the high dead load of thermal collectors additional wind bracings must be installed at the front side. Please contact ZinCo for the exact positioning of the wind bracings.

Material: aluminium; Weight: each ca. 0.5 kg

| | | |
|-----------------------|-----------------------|------------------|
| Wind Bracing WV 5/10 | Inclination 5° + 10° | Order No. 971005 |
| Wind Bracing WV 15/20 | Inclination 15° + 20° | Order No. 971015 |
| Wind Bracing WV 25/30 | Inclination 25° + 30° | Order No. 971025 |
| Wind Bracing WV 35/40 | Inclination 35° + 40° | Order No. 971030 |
| Wind Bracing WV 45 | Inclination 45° | Order No. 971045 |



Height Adjustment SGR-HV

Order No. 970090

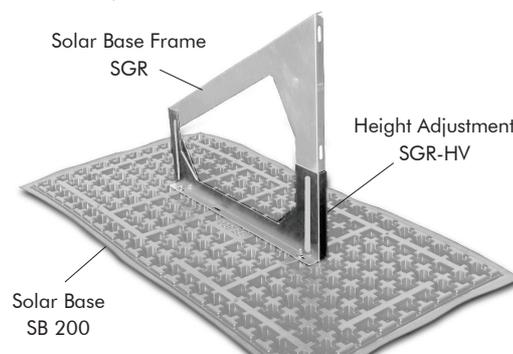


Structurally proven base element made of aluminium, matched to the ZinCo Solar Base Frames SGR and the ZinCo Solar Base SB 200. Allows for a continuous height adjustment of the applied Solar Base Frame of up to 210 mm. The given inclination (5° to 45°) can be adapted up to ± 2°. These features guarantee optimum adaptation to changing roof slopes and the best possible alignment of the modules.



Screw set for SGR-HV
 Order No. 9132

Material: Aluminium
 Length: ca. 950 mm
 Height: ca. 350 mm
 Weight: ca. 1.0 kg



Subject to technical alterations and printing errors • First edition 01/2012; Revised 12/2017

Product Data Sheet

Solar Base SB 200

Order No. 3460 / 3463 / 3465



The perfect sub-structure assembly for the installation of PV or thermal solar panels.



Technical Data

Solar Base SB 200

Complete assembly of sub-structure, for e.g. the Solar Base Frame SGR, made of recycled hard plastic with aluminium profile underneath the plastic element.

| | |
|---|---------------------------|
| Material: | ABS |
| Height: | ca. 43 mm |
| Weight, incl. aluminium profile: | ca. 7 kg |
| Filling volume: | ca. 16 l/m ² |
| Compressive strength at 10 % compression: | ca. 250 kN/m ² |

In-plane water flow capacity (EN ISO 12958):

| | |
|----------------|-----------------|
| roof slope 1%: | ca. 1.6 l/(s·m) |
| roof slope 2%: | ca. 2.4 l/(s·m) |
| roof slope 3%: | ca. 3.0 l/(s·m) |

| | |
|-------------|-------------------|
| Dimensions: | ca. 1.00 x 2.00 m |
|-------------|-------------------|

Stainless steel fixing elements, thread M 10.

further Solar Base boards:

| | | |
|---------------------------|--|----------------|
| ZinCo Solar Base SB 200-Q | (crosswise installation) | Order No. 3463 |
| ZinCo Solar Base SB 200-4 | (with 4 screws for east-west-installation) | Order No. 3465 |

Features

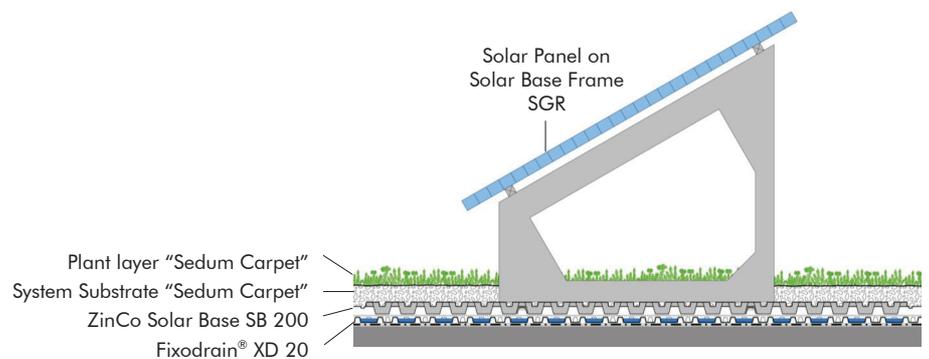
- assembly without roof penetrations, green roof build-up used as superimposed load
- even load distribution
- lightweight components easy to transport
- drainage channels on the underside for optimal drainage
- completely pre-assembled base plate for quick and easy installation of support frame

Notice:

Material temperature for installation: > 5°. The Solar Base SB 200 is always to be completely covered with bulk material according to the required ballast.

Application Example

"System Build-up SolarVert®"



Specification Suggestion

Solar Base of recycled hard plastic (ABS), dimensions ca. 1 m x 2 m, height ca. 43 mm, water storage cells and multi-directional drainage channels, incl. integrated aluminium profiles and structurally tested for combination with Solar Base Frame, in-plane water flow capacity

tested according to EN ISO 12958, delivery and installation according to manufacturer's instructions.

Make: ZinCo Solar Base SB 200
Enquiries: ZinCo Green Roof Systems Ltd.
Phone: +44 (0)1993 229 700

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