

## Testing the watertightness



GDP 100 watertightness test bench



Carrier plate with 25 rivets belonging to the same batch



Testing the watertightness on the setting head side under 30 mm water column during 60 minutes



# SolarGrip®

## Solar blind rivets now with Z-14.1-537 DIBt-approval for all usual material combinations

### SolarGrip® – The solar fastener

- DIBt approval no. Z-14.1-4 and Z-14.1-537 (for 670 1011 only Z-14.1-537)
- Matching grip range for many solar applications
- Ideal for working on trapezoid panel roofs
- SolarSeal coating for 4,8 mm rivets
- Riveting of sponge rubber or EPDM washers possible
- Function documentation available on request at

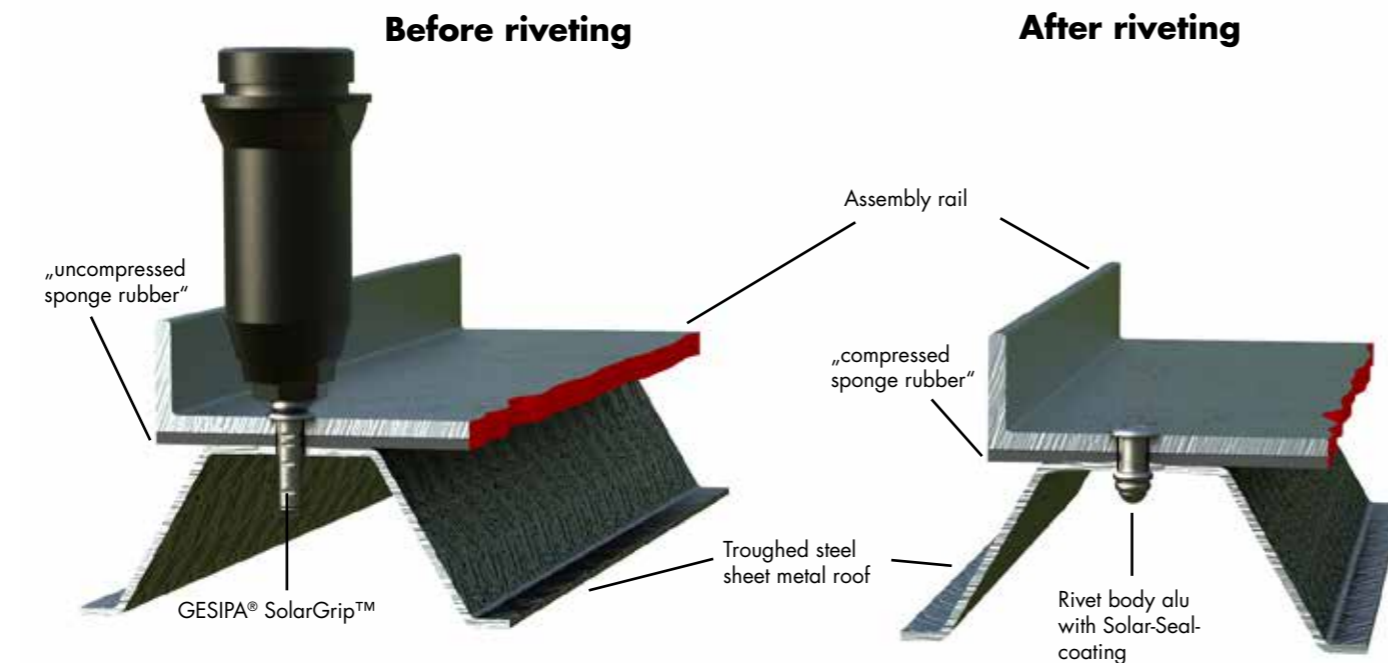


### SolarGrip® – The basic characteristics

- Large grip range coverage with a single blind rivet
- Wide closing head
- Outstanding hole filling capability
- Compact closing head
- For use with all GESIPA® setting tools



### SolarGrip® – The operating mode



# SolarGrip®

## Rivet and tool – For the flexible use in the solar sector

### SolarGrip® – An example of use of our customer Contecta

### What our client IBC SOLAR AG, one of the world's leading global photovoltaic systems integrators says about SolarGrip®:

„By offering our IBC TopFix 200 assembly system, we provide our customers with an assembly system for pitched roofs that is approved by the building inspectorate and ensures the highest level of flexibility and quality. IBC TopFix 200 is universally usable on any pitched roof and provides solutions for many different types of roofs.

Specially-designed prefabricated module clamps are used for assembly on trapezoidal sheet metal roofs, which helps to save up to 20% of installation time compared to conventional assembly systems.

GESIPA® SolarGrip® rivets ensure quick, easy and safe assembly on the metal sheet. The rivet customised to our system and quality requirements guarantees water tightness, a long service life and the highest economic efficiency, and has proved itself in practice millions of times.

SolarGrip is not only used for photovoltaic-related customer products; we also use it for our own systems. Since April 2013, a photovoltaic solar power plant has been generating power for our company's headquarters in Bad Staffelstein (see image). As no appropriate roof surfaces were available, we covered our staff car park with carports and fitted them with photovoltaic modules. We used prefabricated clamps with SolarGrip® rivets to fasten them on trapezoidal sheet metal roofs – a quick, safe and high-quality solution by our partner GESIPA®!“



### SolarGrip® – Dimensions at a glance

	Rivet body	Material	Grip range	Tensile strength	Shear strength	Part no.	Quantity per box
<b>4.8</b> Hole Ø: 5.1-5.2 mm	4,8 x 12,0 F K 11,4	Rivet body: Alu AlMg 2.5 (Colour: black) Mandrel: Stainless steel A2 – Nr. 1.4541	3,0 - 5,0	2.300	1.500	<b>672</b> 1013	P 500
	4,8 x 15,0 F K 11,4	Rivet body: Alu AlMg 2.5 (blank) Mandrel: Steel, zinc-plated	5,0 - 8,0	2.300	1.500	<b>672</b> 1024	"
<b>6.4</b> Hole Ø: 6.5 - 6.9 mm	6,4 x 14,0 F K 11,4	Rivet body: Alu AlMg 2.5 (blank) Mandrel: Steel, zinc-plated	3,0 - 8,0	4.000	2.800	<b>670</b> 1011	P 250

GESIPA® SolarGrip® is perfectly suited for usual troughed panel sheet metal in thicknesses 0,5; 0,63; 0,75; 0,88 und 1,0 mm as well as aluminium troughed panels with 0,7; 0,8 and 1,0 mm thicknesses.

\* Test acc. DIN EN ISO 14589



# PowerBird®-Solar

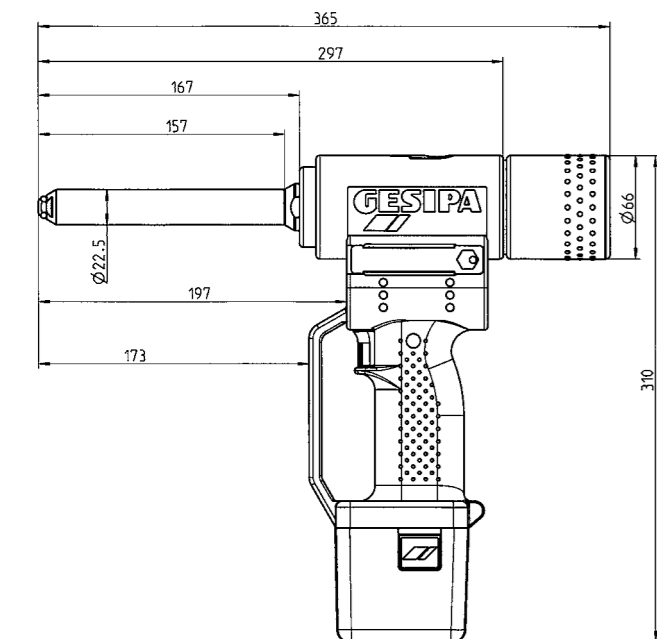
**Special version for Solar applications – Ideal for recessed, poorly accessible rivet locations, for easy access to rivet locations**

## PowerBird®-Solar – In practise

- Fatiguefree working through well balanced weight repartition and ergonomic grip
- Gravity controlled evacuation of broken mandrels: forward through the nosepiece or backwards into the mandrel container
- The immediate and automatic reset after each riveting process saves energy and speeds up the operation
- Compact, shockproof tool housing
- User oriented scope of delivery: metal carrying case with one battery charger, two power batteries and four nosepieces

## PowerBird®-Solar – With new Li-Ion energy

- 2,6 Ah battery, alternatively 1,3 Ah on request
- No Memory-effect
- High Energy yield through high voltage and low weight for easy and fast operation
- Extremely low self discharge



PowerBird®-Solar including two Li-Ion power batteries 2,6 Ah/14,4 V, quick charger, extension unit 100 mm and special nosepieces for BULB-TITE® blind rivets, in metal case

**Part no. 724 0041**

## Working range

SolarGrip blind rivets with Ø 4,8 and 6,4 mm; blind rivets from Ø 4,8 mm steel up to 6,4 mm all materials, except G-Bulb Ø 6,4 mm; BULB-TITE® blind rivets up to Ø 7,7 mm, all materials; MEGA GRIP® blind rivets up to Ø 6,4 mm all materials.

## Technical data

Weight: 2,2 kg with battery  
 Stroke: 20 mm  
 Operating voltage: 14,4 V DC  
 Setting force: 13.000 N  
 Extension unit: 100 mm

## Equipment

100 mm extension unit  
 Two Li-Ion power batteries 2,6 Ah/14,4 V  
 Quick charger  
 Nosepieces 17/32 (in working position), 17/36, 17/40, 17/45, 17/48 BT  
 Operating instructions  
 Metal case

# Fastening the sun: A riveting challenge!

**With DIBt approval No. Z-14.1-537**



# The GESIPA® solar product range at a glance

- Special-Solar blind rivets with DIBt Z-14.1-537 Approval
- Cost efficient installation of solar panels on troughed sheet metal roofs
- Grip range specially adapted to solar installation applications
- Quick, process safe setting
- Batch controlled fasteners
- SolarSeal surface treatment
- Outstanding hole filling capability
- Wide closing head on the backside
- Protection against theft
- Setting tool PowerBird®-Solar
- Flexible and versatile applications
- Timely Li-Ion technology
- Shockproof tool housing
- Ergonomic design

## SolarGrip® and PowerBird®-Solar: The winning team

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