



IDEAL SOLAR  
MOUNTING SYSTEM  
FOR FLAT ROOFS

# Specification items

# SPECIFICATION ITEMS

## Sun Ballast ballasts for solar panels

### MOUNTING SYSTEM

#### Description

Supply and installation (S&I) of patented SUN BALLAST ballasts in C32/40 concrete, **with reference to concession no. 102017000107051**, and to **International Industrial Design certificate DM/086946**, for the support and mounting of panels used to develop solar systems on flat roofs or flat surfaces, without the need for penetrations or fastenings on the roof deck.

Sun Ballast concrete ballasts with  $\varnothing 8$  rebars, adjustable tilt from  $0^\circ$  to  $30^\circ$ , **guaranteed for 25 years against weathering**, carefully configured by the technical department and ideal for installers; supplied with M8 electro-galvanised steel threaded inserts pre-inserted in the concrete for straightforward and fast installation without the need for profiles, panel mounting on either the long or short side with maximum flexibility, weight-adjustable, **compliant with UNI EN ISO 9001:2015 standard**, with the following additional technical specifications:

- Exposure class: XC4 unless otherwise specified
- Minimum cement content: 340 Kg/m<sup>3</sup>
- Fire resistance class C A1 (Decree of the Ministry of the Interior of 14 January 1985)
- Maximum water (H<sub>2</sub>O) penetration depth under pressure (500kPa): 15mm
- Average water (H<sub>2</sub>O) penetration depth under pressure (500kPa): 10mm
- Minimum pull-out resistance of M8 anchor embedded in concrete: 15 KN (1530 Kg); test result: no failure of the anchor inserted in the Sun Ballast ballast
- Weight tolerance:  $\pm 5\%$ .
- Ballasts tested in Wind Tunnel
- Mechanical fastenings tested with fatigue test
- Materials and elements tested in environmental chamber
- Structure analysed with fluid dynamics tests

The structure is supplied with all components and accessories for correct installation: high-strength central and end clamps with stainless steel screws and thread locks, pre-cut and high-density, slip-resistant membranes.

The solar system must be installed to professional standards, with the system rated and equipped with all components ensuring its durability and stability over time, considering the typical environmental conditions of the installation site (wind and snow resistance), and ensuring proper fastening of the photovoltaic panels in compliance with the requirements outlined in the installation manual. The complete system includes: U-block weights and/or Cablowind accessories in concrete for increased static resistance and proper cable housing, aluminium and/or steel plates to connect the elements and increase mechanical strength.

Specifically, the Sun Ballast system can be composed of the following items:

## BALLASTS, ACCESSORIES AND COMPONENT

### ITEMS

<p><b>23000</b></p>	<p>SUN BALLAST SINGLE-ROW ballast in C32/40 concrete with Ø8 rebar, item 23000, tilt 0°, weight 30Kg, dimensions (LxWxHmax) 995x145x90 mm, correctly prepared by the technical department and ideal for installers, includes M8 electro-galvanised steel threaded inserts pre-inserted in the concrete for straightforward and fast installation without profiles, panel mounting on long or short side with maximum flexibility. Support surface on the roof: 1445 cm<sup>2</sup>, support surface on the panel: 671 cm<sup>2</sup>, fixing bush centre distance: 800 mm.</p>
<p><b>23000.H20</b></p>	<p>SUN BALLAST SINGLE-ROW BALLAST in C32/40 concrete with Ø8 rebar, item 23000.H20, tilt 0°, weight 45Kg, dimensions (LxWxHmax) 980x150x200 mm, correctly prepared by the technical department and ideal for installers, includes M8 electro-galvanised steel threaded inserts pre-inserted in the concrete for straightforward and fast installation without profiles, panel mounting on long or short side with maximum flexibility, weight-adjustable. Support surface on the roof: 1470 cm<sup>2</sup>, support surface on the panel: 210 cm<sup>2</sup>, fixing bush centre distance: 820 mm.</p>
<p><b>23000.HI</b></p>	<p>SUN BALLAST SINGLE-ROW ballast in C32/40 concrete with Ø8 rebar, item 23000.HI, tilt 0°, weight 67Kg, dimensions (LxWxHmax) 980x100x700 mm, correctly prepared by the technical department and ideal for installers, includes M8 electro-galvanised steel threaded inserts pre-inserted in the concrete for straightforward and fast installation without profiles, panel mounting on long or short side with maximum flexibility, weight-adjustable, pre-inserted rear M8 insert. Support surface on the roof: 980 cm<sup>2</sup>, support surface on the panel: 90 cm<sup>2</sup>, fixing bush centre distance: 880 mm.</p>
<p><b>23000.KP</b></p>	<p>SUN BALLAST SINGLE-ROW ballast in C32/40 concrete with Ø8 rebar, item 23000.KP, tilt 0°, weight 60Kg, dimensions (LxWxHmax) 995x290x90 mm, correctly prepared by the technical department and ideal for installers, includes M8 electro-galvanised steel threaded inserts pre-inserted in the concrete for straightforward and fast installation without profiles, panel mounting on long or short side with maximum flexibility. Support surface on the roof: 2885 cm<sup>2</sup>, support surface on the panel: 1393 cm<sup>2</sup>, fixing bush centre distance: 800 mm.</p>
<p><b>23003</b></p>	<p>SUN BALLAST SINGLE-ROW ballast in C32/40 concrete with Ø8 rebar, item 23003, tilt 3°, weight 41Kg, dimensions (LxWxHmax) 995x220x106,7 mm correctly prepared by the technical department and ideal for installers, includes M8 electro-galvanised steel threaded inserts pre-inserted in the concrete for straightforward and fast installation without profiles, panel mounting on long or short side with maximum flexibility. Support surface on the roof: 2189 cm<sup>2</sup>, support surface on the panel: 1045 cm<sup>2</sup>, fixing bush centre distance: 800 mm.</p>
<p><b>23005</b></p>	<p>SUN BALLAST SINGLE-ROW/SAIL ballast in C32/40 concrete with Ø8 rebar, item 23005, tilt 5°, weight 40Kg, dimensions (LxWxHmax) 992x140x174 mm, correctly prepared by the technical department and ideal for installers, includes M8 electro-galvanised steel threaded inserts pre-inserted in the concrete for straightforward and fast installation without profiles, panel mounting on long or short side with maximum flexibility, pre-inserted rear M8 insert. Support surface on the roof: 1389 cm<sup>2</sup>, support surface on the panel: 645 cm<sup>2</sup>, fixing bush centre distance: 780 mm.</p>



<b>23005.2</b>	SUN BALLAST SINGLE-ROW/SAIL ballast in C32/40 concrete with ø8 rebar, item 23005.2, tilt 5°, weight 54Kg, dimensions (LxWxHmax) 928x140x276 mm, correctly prepared by the technical department and ideal for installers, includes M8 electro-galvanised steel threaded inserts pre-inserted in the concrete for straightforward and fast installation without profiles, panel mounting on long or short side with maximum flexibility, weight-adjustable, pre-inserted rear M8 insert. Support surface on the roof: 1300 cm <sup>2</sup> , support surface on the panel: 410 cm <sup>2</sup> , fixing bush centre distance: 790 mm.
<b>23005.3</b>	SUN BALLAST SINGLE-ROW/SAIL ballast in C32/40 concrete with ø8 rebar, item 23005.3, tilt 5°, weight 60Kg, dimensions (LxWxHmax) 935x140x381 mm, correctly prepared by the technical department and ideal for installers, includes M8 electro-galvanised steel threaded inserts pre-inserted in the concrete for straightforward and fast installation without profiles, panel mounting on long or short side with maximum flexibility, weight-adjustable, pre-inserted rear M8 insert. Support surface on the roof: 1309 cm <sup>2</sup> , support surface on the panel: 130 cm <sup>2</sup> , fixing bush centre distance: 790 mm.
<b>23005.4</b>	SUN BALLAST SINGLE-ROW/SAIL ballast in C32/40 concrete with ø8 rebar, item 23005.4, tilt 5°, weight 60Kg, dimensions (LxWxHmax) 949x140x487 mm, correctly prepared by the technical department and ideal for installers, includes M8 electro-galvanised steel threaded inserts pre-inserted in the concrete for straightforward and fast installation without profiles, panel mounting on long or short side with maximum flexibility, weight-adjustable, pre-inserted rear M8 insert. Support surface on the roof: 1329 cm <sup>2</sup> , support surface on the panel: 130 cm <sup>2</sup> , fixing bush centre distance: 790 mm.
<b>23005.5</b>	SUN BALLAST SINGLE-ROW/SAIL ballast in C32/40 concrete with ø8 rebar, item 23005.5, tilt 5°, weight 60Kg, dimensions (LxWxHmax) 945x135x592 mm, correctly prepared by the technical department and ideal for installers, includes M8 electro-galvanised steel threaded inserts pre-inserted in the concrete for straightforward and fast installation without profiles, panel mounting on long or short side with maximum flexibility, weight-adjustable, pre-inserted rear M8 insert. Support surface on the roof: 1275 cm <sup>2</sup> , support surface on the panel: 125 cm <sup>2</sup> , fixing bush centre distance: 790 mm.
<b>23005.6</b>	SUN BALLAST SINGLE-ROW/SAIL ballast in C32/40 concrete with ø8 rebar, item 23005.6, tilt 5°, weight 66Kg, dimensions (LxWxHmax) 956x130x698 mm, correctly prepared by the technical department and ideal for installers, includes M8 electro-galvanised steel threaded inserts pre-inserted in the concrete for straightforward and fast installation without profiles, panel mounting on long or short side with maximum flexibility, weight-adjustable, pre-inserted rear M8 insert. Support surface on the roof: 1243 cm <sup>2</sup> , support surface on the panel: 120 cm <sup>2</sup> , fixing bush centre distance: 790 mm.
<b>23005.CF</b>	Front SUN BALLAST CONNECT ballast in C32/40 concrete with ø8 rebar, item 23005.CF, tilt 5°, weight 20Kg, dimensions (LxWxHmax) 365x220x120 mm, correctly prepared by the technical department and ideal for installers, includes M8 electro-galvanised steel threaded inserts pre-inserted in the concrete for straightforward and fast installation without profiles, panel mounting on short side with a shared load system for a low roof load. Support surface on the roof: 803 cm <sup>2</sup> , support surface on the panel: 126 cm <sup>2</sup> .
<b>23005.CR</b>	Central SUN BALLAST CONNECT ballast in C32/40 concrete with ø8 rebar, item 23005.CR, tilt 5°, weight 16Kg, dimensions (LxWxHmax) 685x90x182 mm, correctly prepared by the technical department and ideal for installers, includes M8 electro-galvanised steel threaded inserts pre-inserted in the concrete for straightforward and fast installation without profiles, panel mounting on short side with a shared load system for a low roof load, weight-adjustable. Support surface on the roof: 617 cm <sup>2</sup> , support surface on the panel: 90 cm <sup>2</sup> .



<b>23005.CRC</b>	Central SUN BALLAST CONNECT Sail ballast in C32/40 concrete with ø8 rebar, item 23005.CRC, tilt 5°, weight 20Kg, dimensions (LxWxHmax) 250x220x175 mm, correctly prepared by the technical department and ideal for installers, includes M8 electro-galvanised steel threaded inserts pre-inserted in the concrete for straightforward and fast installation without profiles, panel mounting on short side with a shared load system for a low roof load. Support surface on the roof: 550 cm <sup>2</sup> , support surface on the panel: 105 cm <sup>2</sup> .
<b>23005.CRR</b>	Central SUN BALLAST CONNECT Sail ballast in C32/40 concrete with ø8 rebar, item 23005.CRR, tilt 5°, weight 28Kg, dimensions (LxWxHmax) 901x100x270 mm, correctly prepared by the technical department and ideal for installers, includes M8 electro-galvanised steel threaded inserts pre-inserted in the concrete for straightforward and fast installation without profiles, panel mounting on short side with a shared load system for a low roof load, weight-adjustable. Support surface on the roof: 901 cm <sup>2</sup> , support surface on the panel: 90 cm <sup>2</sup> .
<b>23005.CRT</b>	End SUN BALLAST CONNECT ballast in C32/40 concrete with ø8 rebar, item 23005.CRT, tilt 5°, weight 35Kg, dimensions (LxWxHmax) 572x220x182 mm, correctly prepared by the technical department and ideal for installers, includes M8 electro-galvanised steel threaded inserts pre-inserted in the concrete for straightforward and fast installation without profiles, panel mounting on short side with a shared load system for a low roof load. Support surface on the roof: 1258 cm <sup>2</sup> , support surface on the panel: 115 cm <sup>2</sup> .
<b>23005.CRRT</b>	End SUN BALLAST CONNECT SAIL ballast in C32/40 concrete with ø8 rebar, item 23005.CRRT, tilt 5°, weight 33Kg, dimensions (LxWxHmax) 700x150x272 mm, correctly prepared by the technical department and ideal for installers, includes M8 electro-galvanised steel threaded inserts pre-inserted in the concrete for straightforward and fast installation without profiles, panel mounting on short side with a shared load system for a low roof load. Support surface on the roof: 1050 cm <sup>2</sup> , support surface on the panel: 115 cm <sup>2</sup> .
<b>23005.L</b>	SUN BALLAST MONO-XL ballast in C32/40 concrete with ø8 rebar, item 23005.L, tilt 5°, weight 65Kg, dimensions (LxWxHmax) 1396x139x292 mm, correctly prepared by the technical department and ideal for installers, includes M8 electro-galvanised steel threaded inserts pre-inserted in the concrete for straightforward and fast installation without profiles, large-size panel mounting on long side with maximum flexibility, weight-adjustable. Support surface on the roof: 1940 cm <sup>2</sup> , support surface on the panel: 130 cm <sup>2</sup> , fixing bush centre distance: 1266 mm.
<b>23005.XLC</b>	Central SUN BALLAST INDUSTRIAL-XL ballast in C32/40 concrete with ø8 rebar, item 23005.XLC, tilt 5°, weight 55Kg, dimensions (LxWxHmax) 1634x125x306 mm, correctly prepared by the technical department and ideal for installers, includes M8 electro-galvanised steel threaded inserts pre-inserted in the concrete for straightforward and fast installation without profiles, large-size panel mounting on long side with maximum flexibility, shared load system for a low roof load, weight-adjustable. Support surface on the roof: 2042 cm <sup>2</sup> , support surface on the panel: 138 cm <sup>2</sup> .
<b>23005.XLF</b>	Front SUN BALLAST INDUSTRIAL-XL ballast in C32/40 concrete with ø8 rebar, item 23005.XLF, tilt 5°, weight 45Kg, dimensions (LxWxHmax) 342x353x193 mm, correctly prepared by the technical department and ideal for installers, includes M8 electro-galvanised steel threaded inserts pre-inserted in the concrete for straightforward and fast installation without profiles, large-size panel mounting on long side with maximum flexibility, shared load system for a low roof load. Support surface on the roof: 1207 cm <sup>2</sup> , support surface on the panel: 570 cm <sup>2</sup> .





<b>23005.XLT</b>	End SUN BALLAST INDUSTRIAL-XL ballast in C32/40 concrete with ø8 rebar, item 23005.XLT, tilt 5°, weight 45Kg, dimensions (LxWxHmax) 296x250x310 mm, correctly prepared by the technical department and ideal for installers, includes M8 electro-galvanised steel threaded inserts pre-inserted in the concrete for straightforward and fast installation without profiles, large-size panel mounting on long side with maximum flexibility, shared load system for a low roof load. Support surface on the roof: 740 cm <sup>2</sup> , support surface on the panel: 355 cm <sup>2</sup> .
<b>23010</b>	SUN BALLAST SINGLE-ROW/SAIL ballast in C32/40 concrete with ø8 rebar, item 23010, tilt 10°, weight 60Kg, dimensions (LxWxHmax) 988x135x348 mm, correctly prepared by the technical department and ideal for installers, includes M8 electro-galvanised steel threaded inserts pre-inserted in the concrete for straightforward and fast installation without profiles, panel mounting on long or short side with maximum flexibility, weight-adjustable, pre-inserted rear M8 insert. Support surface on the roof: 1334 cm <sup>2</sup> , support surface on the panel: 250 cm <sup>2</sup> , fixing bush centre distance: 785 mm.
<b>23010.2</b>	SUN BALLAST SINGLE-ROW/SAIL ballast in C32/40 concrete with ø8 rebar, item 23010.2, tilt 10°, weight 60Kg, dimensions (LxWxHmax) 926x135x550 mm, correctly prepared by the technical department and ideal for installers, includes M8 electro-galvanised steel threaded inserts pre-inserted in the concrete for straightforward and fast installation without profiles, panel mounting on long or short side with maximum flexibility, weight-adjustable, pre-inserted rear M8 insert. Support surface on the roof: 1250 cm <sup>2</sup> , support surface on the panel: 150 cm <sup>2</sup> , fixing bush centre distance: 770 mm.
<b>23010.3</b>	SUN BALLAST SINGLE-ROW/SAIL ballast in C32/40 concrete with ø8 rebar, item 23010.3, tilt 10°, weight 65Kg, dimensions (LxWxHmax) 948x120x760 mm, correctly prepared by the technical department and ideal for installers, includes M8 electro-galvanised steel threaded inserts pre-inserted in the concrete for straightforward and fast installation without profiles, panel mounting on long or short side with maximum flexibility, weight-adjustable, pre-inserted rear M8 insert. Support surface on the roof: 1138 cm <sup>2</sup> , support surface on the panel: 110 cm <sup>2</sup> , fixing bush centre distance: 790 mm.
<b>23010.CF</b>	Front SUN BALLAST CONNECT ballast in C32/40 concrete with ø8 rebar, item 23010.CF, tilt 10°, weight 20Kg, dimensions (LxWxHmax) 505x150x120 mm, correctly prepared by the technical department and ideal for installers, includes M8 electro-galvanised steel threaded inserts pre-inserted in the concrete for straightforward and fast installation without profiles, panel mounting on short side with a shared load system for a low roof load. Support surface on the roof: 758 cm <sup>2</sup> , support surface on the panel: 85 cm <sup>2</sup> .
<b>23010.CR</b>	Central SUN BALLAST CONNECT ballast in C32/40 concrete with ø8 rebar, item 23010.CR, tilt 10°, weight 22Kg, dimensions (LxWxHmax) 830x90x270 mm, correctly prepared by the technical department and ideal for installers, includes M8 electro-galvanised steel threaded inserts pre-inserted in the concrete for straightforward and fast installation without profiles, panel mounting on short side with a shared load system for a low roof load, weight-adjustable. Support surface on the roof: 1245 cm <sup>2</sup> , support surface on the panel: 80 cm <sup>2</sup> .
<b>23010.CRS</b>	Central SUN BALLAST CONNECT ballast in C32/40 concrete with ø8 rebar, item 23010.CRS, tilt 10°, weight 22Kg, dimensions (LxWxHmax) 683x110x270 mm, correctly prepared by the technical department and ideal for installers, includes M8 electro-galvanised steel threaded inserts pre-inserted in the concrete for straightforward and fast installation without profiles, panel mounting on short side with a shared load system for a low roof load, weight-adjustable. Support surface on the roof: 751 cm <sup>2</sup> , support surface on the panel: 100 cm <sup>2</sup> .

<b>23010.CRSS</b>	Central SUN BALLAST CONNECT ballast in C32/40 concrete with $\varnothing 8$ rebar, item 23010.CRSS, tilt 10°, weight 28Kg, dimensions (LxWxHmax) 534x150x270 mm, correctly prepared by the technical department and ideal for installers, includes M8 electro-galvanised steel threaded inserts pre-inserted in the concrete for straightforward and fast installation without profiles, panel mounting on short side with a shared load system for a low roof load. Support surface on the roof: 801 cm <sup>2</sup> , support surface on the panel: 140 cm <sup>2</sup> .
<b>23010.CRT</b>	End SUN BALLAST CONNECT ballast in C32/40 concrete with $\varnothing 8$ rebar, item 23010.CRT, tilt 10°, weight 33Kg, dimensions (LxWxHmax) 700x150x270 mm, correctly prepared by the technical department and ideal for installers, includes M8 electro-galvanised steel threaded inserts pre-inserted in the concrete for straightforward and fast installation without profiles, panel mounting on short side with a shared load system for a low roof load. Support surface on the roof: 1050 cm <sup>2</sup> , support surface on the panel: 75 cm <sup>2</sup> .
<b>23010.CRTV</b>	Vertical end SUN BALLAST CONNECT ballast in C32/40 concrete with $\varnothing 8$ rebar, item 23010.CRTV, tilt 10°, weight 33Kg, dimensions (LxWxHmax) 700x120x350 mm, correctly prepared by the technical department and ideal for installers, includes M8 electro-galvanised steel threaded inserts pre-inserted in the concrete for straightforward and fast installation without profiles, panel mounting on long side with a shared load system for a low roof load. Support surface on the roof: 840 cm <sup>2</sup> , support surface on the panel: 81 cm <sup>2</sup> .
<b>23010.CRV</b>	Vertical central SUN BALLAST CONNECT ballast in C32/40 concrete with $\varnothing 8$ rebar, item 23010.CRV, tilt 10°, weight 38Kg, dimensions (LxWxHmax) 1124x100x350 mm, correctly prepared by the technical department and ideal for installers, includes M8 electro-galvanised steel threaded inserts pre-inserted in the concrete for straightforward and fast installation without profiles, panel mounting on long side with a shared load system for a low roof load, weight-adjustable. Support surface on the roof: 1124 cm <sup>2</sup> , support surface on the panel: 100 cm <sup>2</sup> .
<b>23010.EP</b>	SUN BALLAST EASYWEST ballast in C32/40 concrete with $\varnothing 8$ rebar, item 23010.EP, tilt 10°, weight 28, 5Kg, dimensions (LxWxHmax) 850x122x285 mm, correctly prepared by the technical department and ideal for installers, includes M8 electro-galvanised steel threaded inserts pre-inserted in the concrete for straightforward and fast installation without profiles, mounting of all panel types on long side in horizontal configuration, shared load system for a low roof load, weight-adjustable. Support surface on the roof: 1037 cm <sup>2</sup> , support surface on the panel: 42 cm <sup>2</sup> .
<b>23010.EV</b>	SUN BALLAST EASYWEST ballast in C32/40 concrete with $\varnothing 8$ rebar, item 23010.EV, tilt 10°, weight 28, 5Kg, dimensions (LxWxHmax) 850x180x88 mm, correctly prepared by the technical department and ideal for installers, includes M8 electro-galvanised steel threaded inserts pre-inserted in the concrete for straightforward and fast installation without profiles, mounting of all panel types on long side in horizontal configuration, shared load system for a low roof load. Support surface on the roof: 1530 cm <sup>2</sup> , support surface on the panel: 510 cm <sup>2</sup> .
<b>23010.L</b>	SUN BALLAST MONO-XL ballast in C32/40 concrete with $\varnothing 8$ rebar, item 23010.L, tilt 10°, weight 70Kg, dimensions (LxWxHmax) 1395x139x423 mm, correctly prepared by the technical department and ideal for installers, includes M8 electro-galvanised steel threaded inserts pre-inserted in the concrete for straightforward and fast installation without profiles, large-size panel mounting on long side with maximum flexibility, weight-adjustable, pre-inserted rear M8 insert. Support surface on the roof: 1940 cm <sup>2</sup> , support surface on the panel: 170 cm <sup>2</sup> , fixing bush centre distance: 1258 mm.



<b>23015</b>	SUN BALLAST SINGLE-ROW ballast in C32/40 concrete with ø8 rebar, item 23015, tilt 15°, weight 60Kg, dimensions (LxWxHmax) 975x140x401 mm, correctly prepared by the technical department and ideal for installers, includes M8 electro-galvanised steel threaded inserts pre-inserted in the concrete for straightforward and fast installation without profiles, panel mounting on long or short side with maximum flexibility, weight-adjustable, pre-inserted rear M8 insert. Support surface on the roof: 1365 cm2, support surface on the panel: 260 cm2, fixing bush centre distance: 780 mm.
<b>23015.CF</b>	Front SUN BALLAST CONNECT ballast in C32/40 concrete with ø8 rebar, item 23015.CF, tilt 15°, weight 21Kg, dimensions (LxWxHmax) 520x130x130 mm, correctly prepared by the technical department and ideal for installers, includes M8 electro-galvanised steel threaded inserts pre-inserted in the concrete for straightforward and fast installation without profiles, panel mounting on short side with a shared load system for a low roof load. Support surface on the roof: 680 cm2, support surface on the panel: 80 cm2.
<b>23015.CR</b>	Central SUN BALLAST CONNECT ballast in C32/40 concrete with ø8 rebar, item 23015.CR, tilt 15°, weight 28Kg, dimensions (LxWxHmax) 932x90x355 mm, correctly prepared by the technical department and ideal for installers, includes M8 electro-galvanised steel threaded inserts pre-inserted in the concrete for straightforward and fast installation without profiles, panel mounting on short side with a shared load system for a low roof load, weight-adjustable. Support surface on the roof: 840 cm2, support surface on the panel: 80 cm2.
<b>23015.CRP</b>	Supplementary U-BLOCK concrete weight, item 23015.CRP, weight 15Kg, dimensions (LxWxH) 150x350x170cm, interlocking and compatible with all Sun Ballast systems
<b>23015.CRT</b>	End SUN BALLAST CONNECT ballast in C32/40 concrete with ø8 rebar, item 23015.CRT, tilt 15°, weight 30Kg, dimensions (LxWxHmax) 600x130x355 mm, correctly prepared by the technical department and ideal for installers, includes M8 electro-galvanised steel threaded inserts pre-inserted in the concrete for straightforward and fast installation without profiles, panel mounting on short side with a shared load system for a low roof load. Support surface on the roof: 1050 cm2, support surface on the panel: 75 cm2.
<b>23020</b>	SUN BALLAST SINGLE-ROW ballast in C32/40 concrete with ø8 rebar, item 23020, tilt 20°, weight 60Kg, dimensions (LxWxHmax) 881x140x488 mm, correctly prepared by the technical department and ideal for installers, includes M8 electro-galvanised steel threaded inserts pre-inserted in the concrete for straightforward and fast installation without profiles, panel mounting on long or short side with maximum flexibility, weight-adjustable, pre-inserted rear M8 insert. Support surface on the roof: 1233 cm2, support surface on the panel: 260 cm2, fixing bush centre distance: 765 mm.
<b>23020.CF</b>	Front SUN BALLAST CONNECT ballast in C32/40 concrete with ø8 rebar, item 23020.CF, tilt 20°, weight 22Kg, dimensions (LxWxHmax) 520x130x130 mm, correctly prepared by the technical department and ideal for installers, includes M8 electro-galvanised steel threaded inserts pre-inserted in the concrete for straightforward and fast installation without profiles, panel mounting on short side with a shared load system for a low roof load. Support surface on the roof: 676 cm2, support surface on the panel: 80 cm2.





<b>23020.CR</b>	Central SUN BALLAST CONNECT ballast in C32/40 concrete with ø8 rebar, item 23015.CR, tilt 20°, weight 34Kg, dimensions (LxWxHmax) 1077x130x440 mm, correctly prepared by the technical department and ideal for installers, includes M8 electro-galvanised steel threaded inserts pre-inserted in the concrete for straightforward and fast installation without profiles, panel mounting on short side with a shared load system for a low roof load, weight-adjustable. Support surface on the roof: 1400 cm2, support surface on the panel: 80 cm2.
<b>23020.CRT</b>	End SUN BALLAST CONNECT BALLAST in C32/40 concrete with ø8 rebar, item 23020.CRT, tilt 20°, weight 35Kg, dimensions (LxWxHmax) 600x130x440 mm, correctly prepared by the technical department and ideal for installers, includes M8 electro-galvanised steel threaded inserts pre-inserted in the concrete for straightforward and fast installation without profiles, panel mounting on short side with a shared load system for a low roof load. Support surface on the roof: 780 cm2, support surface on the panel: 75 cm2.
<b>23030</b>	SUN BALLAST SINGLE-ROW ballast in C32/40 concrete with ø8 rebar, item 23030, tilt 30°, weight 58Kg, dimensions (LxWxHmax) 854x130x662 mm, correctly prepared by the technical department and ideal for installers, includes M8 electro-galvanised steel threaded inserts pre-inserted in the concrete for straightforward and fast installation without profiles, panel mounting on long or short side with maximum flexibility, weight-adjustable, pre-inserted rear M8 insert. Support surface on the roof: 1110 cm2, support surface on the panel: 120 cm2, fixing bush centre distance: 870 mm.
<b>23030.CF</b>	Front SUN BALLAST CONNECT ballast in C32/40 concrete with ø8 rebar, item 23030.CF, tilt 30°, weight 20Kg, dimensions (LxWxHmax) 400x200x120 mm, correctly prepared by the technical department and ideal for installers, includes M8 electro-galvanised steel threaded inserts pre-inserted in the concrete for straightforward and fast installation without profiles, panel mounting on short side with a shared load system for a low roof load. Support surface on the roof: 800 cm2, support surface on the panel: 80 cm2.
<b>23030.CR</b>	Central SUN BALLAST CONNECT ballast in C32/40 concrete with ø8 rebar, item 23030.CR, tilt 30°, weight 45Kg, dimensions (LxWxHmax) 1271x90x598 mm, correctly prepared by the technical department and ideal for installers, includes M8 electro-galvanised steel threaded inserts pre-inserted in the concrete for straightforward and fast installation without profiles, panel mounting on short side with a shared load system for a low roof load, weight-adjustable. Support surface on the roof: 1145 cm2, support surface on the panel: 80 cm2.
<b>23030.CRT</b>	End SUN BALLAST CONNECT ballast in C32/40 concrete with ø8 rebar, item 23030.CRT, tilt 30°, weight 45Kg, dimensions (LxWxHmax) 782x120x598 mm, correctly prepared by the technical department and ideal for installers, includes M8 electro-galvanised steel threaded inserts pre-inserted in the concrete for straightforward and fast installation without profiles, panel mounting on short side with a shared load system for a low roof load. Support surface on the roof: 940 cm2, support surface on the panel: 75 cm2.
<b>23030.CRP</b>	Supplementary U-BLOCK concrete weight, item 23030.CRP, weight 30Kg, dimensions (LxWxH) 300x350x170 mm, interlocking and compatible with all Sun Ballast systems



<b>23811</b>	Zincomagnelis joining plate, item 23811, thickness 8/10 mm, for connecting rows in sail systems, tested in Wind Tunnel
<b>23815</b>	Galvanised metal joining plate DX51D, item 23815, thickness 8/10 mm, for connecting rows in East-West systems, tested in Wind Tunnel
<b>23920/PWC</b>	AISI 304 steel plate, item 23920/PWC for end power clamp
<b>23960</b>	A2 AISI 304 stainless steel plate, item 23960 for easy grounding, thickness 5/10 mm
<b>CUNEO</b>	Wooden wedge item CUNEO for levelling or spacing the ballasts
<b>CW.CABLOWIND.160</b>	Concrete channel support with dual function, item CW.CABLOWIND.160, weight 29Kg, L=1600mm; increases the system's wind resistance and facilitates organised cable management
<b>CW.CABLOWIND.185</b>	Concrete channel support with dual function, item CW.CABLOWIND.185, weight 34Kg, L=1850mm; increases the system's wind resistance and facilitates organised cable management
<b>CW.CABLOWIND.95</b>	Concrete channel support with dual function, item CW.CABLOWIND.95, weight 17Kg, L=950mm; increases the system's wind resistance and facilitates organised cable management



<b>K23709</b>	<p>"Z" bracket kit  item K23709, AISI 430 steel bracket thickness 3mm,  M8x25 stainless steel bolt, stainless steel washer, hammerhead screw and hex nut for securing profiles to ballasts, laboratory-tested</p>
<b>K23711</b>	<p>No-Flex kit  Item K23711, AISI 430 steel plate, thickness 3 mm, stainless steel washer,  A304 M8x25 bolt, stainless steel cage nut; for horizontal panel installation with six fixing points;  prevents panel flexing and ensures maximum load resistance; laboratory-certified with load testing</p>
<b>K23712</b>	<p>No-Flex kit  Item K23712, AISI 430 steel plate, thickness 3 mm, stainless steel washer,  A304 M8x25 bolt, stainless steel cage nut; for horizontal panel installation with six fixing points;  prevents panel flexing and ensures maximum load resistance; laboratory-certified with load testing</p>
<b>K23804</b>	<p>Universal joining plate kit  item K23804, aluminium plate 6060 thickness 3 mm, stainless steel washer,  A304 M8x25 hex socket cap screw</p>
<b>K23900/PWC.50</b>	<p>Power Clamp kit in AISI 304 steel,  item K23900/PWC.50  with high mechanical strength and A2 stainless steel M8x50 bolt and thread lock with grounding</p>
<b>K23900/PWC-EP.40</b>	<p>Power Clamp kit in A2 AISI 304 stainless steel,  for EASYWEST system item K23900/PWC-EP.40  with high mechanical strength and A2 stainless steel M8x40 bolt and thread lock with grounding</p>
<b>K23900/PWC-EV.40</b>	<p>Power Clamp kit in A2 AISI 304 stainless steel,  for EASYWEST system item K23900/PWC-EV.40  with high mechanical strength and A2 stainless steel M8x40 bolt and thread lock with grounding</p>
<b>K23900/U.50</b>	<p>Central Clamp kit in aluminium 6060,  item K23900/U.50 with A2 AISI 304 M8x50 stainless steel bolt and thread lock;  laboratory certified with fatigue and pull-out tests</p>
<b>K23900/U.55</b>	<p>Central Clamp kit in aluminium 6060,  item K23900/U.55 with A2 AISI 304 M8x55 stainless steel bolt and thread lock;  laboratory certified with fatigue and pull-out tests</p>
<b>K23900/UN.50</b>	<p>Central Clamp kit in black aluminium 6060,  item K23900/UN.50 with A2 AISI 304 M8x50 stainless steel bolt and thread lock</p>

<b>K23900/UN.55</b>	Central Clamp kit in black aluminium 6060, item K23900/UN.55 with A2 AISI 304 M8x55 stainless steel bolt and thread lock
<b>K23900VV.SB</b>	Central Clamp kit in aluminium with gasket item K23900VV.SB for frameless modules
<b>K23920/U.50</b>	End Clamp kit in aluminium 6060, item K23920/U.50 with A2 AISI 304 M8x50 stainless steel bolt and thread lock; laboratory certified with fatigue and pull-out tests
<b>K23920/U.55</b>	End Clamp kit in aluminium 6060, item K23920/U.55 with A2 AISI 304 M8x55 stainless steel bolt and thread lock; laboratory certified with fatigue and pull-out tests
<b>K23920/UN.50</b>	End Clamp kit in black aluminium 6060, item K23920/UN.50 with A2 AISI 304 M8x50 stainless steel bolt and thread lock
<b>K23920/UN.55</b>	End Clamp kit in black aluminium 6060, item K23920/UN.55 with A2 AISI 304 M8x55 stainless steel bolt and thread lock
<b>K23920VV.SB</b>	End Clamp kit in aluminium with gasket item K23920VV.SB for frameless modules
<b>K23928</b>	End Clamp kit in aluminium 6060 for modules H=28mm item K23928 with A2 AISI 304 M8x50 stainless steel bolt and thread lock; laboratory-certified with fatigue and pull-out tests
<b>K23930</b>	End Clamp kit in aluminium 6060 for modules H=30mm item K23930 with A2 AISI 304 M8x50 stainless steel bolt and thread lock; laboratory-certified with fatigue and pull-out tests
<b>K23932</b>	End Clamp kit in aluminium 6060 for modules H=32mm item K23932 with A2 AISI 304 M8x50 stainless steel bolt and thread lock; laboratory-certified with fatigue and pull-out tests
<b>K23932/N</b>	End Clamp kit in black aluminium 6060 for modules H=32mm item K23932/N with A2 AISI 304 M8x50 stainless steel bolt and thread lock
<b>K23934/N</b>	End Clamp kit in black aluminium 6060 for modules H=34mm item K23934/N with A2 AISI 304 M8x50 stainless steel bolt and thread lock



<b>K23935</b>	End Clamp kit in aluminium 6060 for modules H=35mm item K23935 with A2 AISI 304 M8x50 stainless steel bolt and thread lock; laboratory-certified with fatigue and pull-out tests
<b>K23935/N</b>	End Clamp kit in black aluminium 6060 for modules H=35mm item K23935/N with A2 AISI 304 M8x50 stainless steel bolt and thread lock
<b>K23938/N</b>	End Clamp kit in black aluminium 6060 for modules H=38mm item K23938/N with A2 AISI 304 M8x50 stainless steel bolt and thread lock
<b>K23940</b>	End Clamp kit in aluminium 6060 for modules H=40mm item K23940 with A2 AISI 304 M8x50 stainless steel bolt and thread lock; laboratory-certified with fatigue and pull-out tests
<b>K23940/N</b>	End Clamp kit in black aluminium 6060 for modules H=40mm item K23940/N with A2 AISI 304 M8x50 stainless steel bolt and thread lock
<b>K23942/N</b>	End Clamp kit in black aluminium 6060 for modules H=42mm item K23942/N with A2 AISI 304 M8x50 stainless steel bolt and thread lock
<b>K23945/N</b>	End Clamp kit in black aluminium 6060 for modules H=45mm item K23945/N with A2 AISI 304 M8x50 stainless steel bolt and thread lock
<b>K23946</b>	End Clamp kit in aluminium 6060 for modules H=46mm item K23946 with A2 AISI 304 M8x50 stainless steel bolt and thread lock; laboratory-certified with fatigue and pull-out tests
<b>K23946/N</b>	End Clamp kit in black aluminium 6060 for modules H=46mm item K23946/N with A2 AISI 304 M8x50 stainless steel bolt and thread lock
<b>K23950/N</b>	End Clamp kit in black aluminium 6060 for modules H=50mm item K23950/N with A2 AISI 304 M8x55 stainless steel bolt and thread lock
<b>KG23115</b>	Closed-cell cross-linked polyolefin foam membrane item KG23115, dimensions (LxWxH) 250x150x10 mm, density 40Kg/m <sup>3</sup> , resistant to slippage and compression; tested in environmental chamber
<b>KG23125</b>	Rubber membrane SBR-NBR 70/75, item KG23125, dimensions (LxWxH) 250x150x5 mm, density 1.4 g/cm <sup>3</sup> , resistant to slippage and compression; tested in environmental chamber
<b>KG23138</b>	Rubber membrane SBR-NBR 70/75, item KG23138, dimensions (LxWxH) 380x180x5 mm, density 1.4 g/cm <sup>3</sup> , resistant to slippage and compression; tested in environmental chamber
<b>KITSTAFFA.CW</b>	Zincomagnelis Cablowind bracket, item KITSTAFFA.CW, thickness 8/10 mm, highly resistant to weathering and tested in environmental chamber
<b>SCH750</b>	Polyurethane foam item SCH750, chemical fixing for ballast placement and improved adhesion









# SUN BALLAST®

Made to last  
Patented systems



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**Basic Solar Systems**

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