

SUN BALLAST

Supporting solar innovation

Patented systems - Made in Italy

PRODUCT CATALOG

Ideal support
for photovoltaic modules
on flat surfaces



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A. PRODUCT DESCRIPTION

Basic srl, an Italian company in strong expansion in the sector of the production of accessories for photovoltaics, in recent years has made space by offering a valid alternative to the historical leaders on the market, presenting an innovative product: Sun Ballast, a structure for modules on a flat roof.

The products of Sun Ballast range are the result of years of direct experience of the creators themselves, who, clashing with the real problems of installation and assistance, were pushed to search for new solutions, setting themselves the prerogative of creating a system capable of combining safety, and practicality, in order to facilitate and harmonize Designers, Installers and Maintenance Technicians. Basic srl supplies small and large companies covering the whole national territory in very short delivery times at low costs.



Sun Ballast from English “Equilibrium of the sun”

Sun Ballast performs the function of structure and ballast

Without Profiles, nothing to assemble, zero holes in the cover

Simple and economical, balanced for loads on the structure and wind resistance

A. PRODUCT DESCRIPTION



Sun Ballast, Innovative, efficient and modular, is the ideal support for photovoltaic panels on flat roofs, clay, asphalt and pavements with a maximum slope of 5°. It can be easily adapted to panels of any size and type. With the appearance of a wedge, Sun Ballast is structured as a single piece, not only as a support but also as a ballast for the panel. The system does not require the use of aluminum profiles or other accessories that involve a pre-assembly phase, simplicity is the key feature from which the technical and economic advantages of Sun Ballast arise. Sun Ballast actually reduces installation times by up to 70% compared to traditional solutions. It is a modular system both in terms of inclination degrees and weight, thanks to the 40 models in Sun Ballast range: 0°.K, 0°.H20, 0°.HI, 3°.K, 5°, 5°.2, 5°.3, 5°.4, 5°.5, 5°.6, 10°.L, 10°.V, 11°.K, 11°.2, 11°.3, 15°, 20°, 30°.1, 35° which allow to lay the modules in the various possible combinations, horizontal, vertical, east west.

The modulation of the weight is done thanks to the possibility of doubling the weights by coupling them or by inserting additional weights, this gives the great advantage of going to insert the weights only in the most appropriate areas without unnecessarily loading the cover. Basic srl is able to offer a free consultancy service in the preventive evaluation phase, to help its customers and / or designers to orient themselves towards a considered choice, making available and comparing their own technical skills on the subject.

A. PRODUCT DESCRIPTION

Resistant materials

The main material of Sun Ballast, cement, allows a very low wear over time and the ability to withstand even the most intense perturbations and different climatic conditions. Thus a single Sun Ballast can withstand several successive installations.

In addition to the structure, Sun Ballast assembly itself is simple and immediate and can be easily placed at the base of the solar panel without the need for additional elements that could damage the roof or affect its waterproofing. Sun Ballast support is enriched in the structure with waterproofing products that enhance its resistance characteristics over time.



Low costs

The installation costs of photovoltaic panels are generally high also due to the presence of various accessories and junction elements. Sun Ballast, thanks to the minimal structure and the materials of which it is constituted, does not involve the use of additional accessories for assembly, which, in many cases, has a higher cost than that of the support product itself. With Sun Ballast it will no longer be necessary to change the mounting platform of the panels or add elements but it will be enough to adapt the modular characteristics of Sun Ballast to the type of panel.

A. PRODUCT DESCRIPTION



A success in line with the times

The success of the new product is evident. As confirmed by the sales figures, Sun Ballast is already recording excellent results and is in line with the best performances recorded for the products in its category. The reasons? Reliability, safety and efficiency are just some of the reasons that lead installers and retailers from all over Europe to buy Sun Ballast. But these are not the only reasons. For Sun Ballast, the company applies the main measures to make assembly easier and more effective, which also make it a product with a low environmental impact.

In fact, Sun Ballast is also part of the broad and modern concept of environmental sustainability, given the very few components it is made of and which are therefore subsequently to be disposed of and also given its resistance over time. So Sun Ballast support can increase the same functionality and performance of the photovoltaic panels, thanks to its support function and the possibility of orienting it in the best way.

B. SUN BALLAST TECHNICAL SHEETS

5° CONNECT SYSTEM

Art. 23005.CF/.CR/.CRT



| | | | |
|--------------------------|--|---------------------------|------------|
| Material | The main material of SUN BALLAST is concrete, which allows a low wear over time and the ability to withstand even the most intense perturbations and different climatic conditions | | |
| Application | Any type of flat roof with a maximum slope of 5° on the ground, on beaten ground with inert material or pavements | | |
| Inclination Angle | 5° | MODULE POSITIONING | Horizontal |

Front Ballast Art. 23005.CF

| | | | |
|----------------------------|-----------|--------------------------|-------------------------|
| Ballast weight | 20 kg | Pallet dimensions | 70 cm x 98 cm h = 85 cm |
| Quantity for pallet | 32 Pieces | Pallet weight | 640 kg |

Central Ballas Art. 23005.CR

| | | | |
|----------------------------|-----------|--------------------------|-------------------------|
| Ballast weight | 16 kg | Pallet dimensions | 88 cm x 65 cm h = 57 cm |
| Quantity for pallet | 36 Pieces | Pallet weight | 576 kg |

Terminal Ballas Art. 23005.CRT

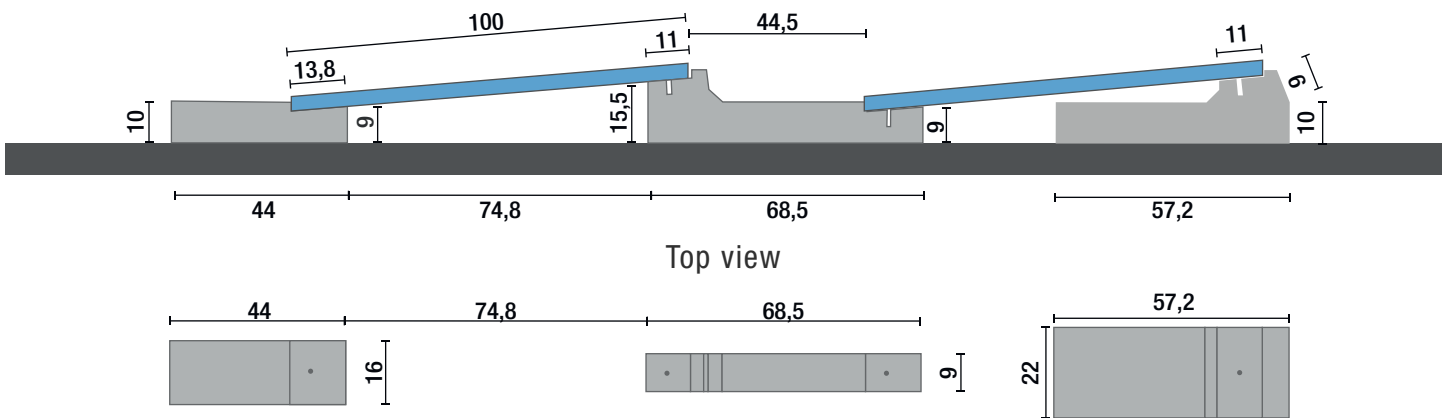
| | | | |
|----------------------------|-----------|--------------------------|-------------------------|
| Ballast weight | 35 kg | Pallet dimensions | 90 cm x 98 cm h = 45 cm |
| Quantity for pallet | 16 Pieces | Pallet weight | 560 kg |

SYSTEM DETAILS

HORIZONTAL PANEL LAYING

Side view

Fixed distance between rows of modules



INFO

- The torque applied shall refer to the mechanical standard conforming to the bolt in use; with M8 bolts in stainless steel use a torque of 12 - 14 Nm
- Avoid screwdrivers impulse
- It's recommended to consult the information indicated in the assembly instructions of the panel manufacturer
- Always follow Sun Ballast assembly instructions.
- The dimensions shown in the figure are all expressed in centimeters.
- Minimum recommended configuration: 5 rows of 5 panels.
- For short side panel dimensions greater than 1m it is advisable to consult our technical department.
- For any information visit the website www.sunballast.it

B. SUN BALLAST TECHNICAL SHEETS

5° SAIL-SHAPED CONNECT SYSTEM

Art. 23005.CF/.CRC/.CRR/.CRTT



| | | | |
|--------------------------|--|---------------------------|------------|
| Material | The main material of SUN BALLAST is concrete, which allows a low wear over time and the ability to withstand even the most intense perturbations and different climatic conditions | | |
| Application | Any type of flat roof with a maximum slope of 5° on the ground, on beaten ground with inert material or pavements | | |
| Inclination Angle | 5° | Module positioning | Horizontal |

Front Ballast Art. 23005.CF

| | | | |
|----------------------------|-----------|--------------------------|-------------------------|
| Ballast weight | 20 kg | Pallet dimensions | 70 cm x 98 cm h = 85 cm |
| Quantity for pallet | 32 Pieces | Pallet weight | 640 kg |

Central Ballast Art. 23005.CRC

| | | | |
|----------------------------|-----------|--------------------------|------------------------|
| Ballast weight | 20 kg | Pallet dimensions | 88 cm x 65cm h = 57 cm |
| Quantity for pallet | 24 Pieces | Pallet weight | 480 kg |

Central Ballast Art. 23005.CRR

| | | | |
|----------------------------|-----------|--------------------------|-------------------------|
| Ballast weight | 28 kg | Pallet dimensions | 88 cm x 65 cm h = 57 cm |
| Quantity for pallet | 18 Pieces | Pallet weight | 504 kg |

Terminal Ballast Art. 23005.CRTT

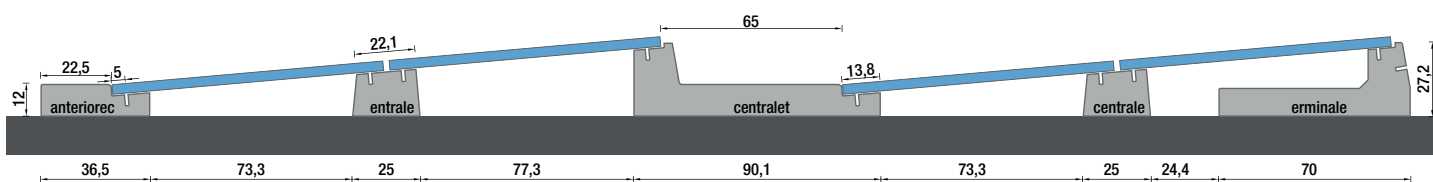
| | | | |
|----------------------------|-----------|--------------------------|-------------------------|
| Ballast weight | 33 kg | Pallet dimensions | 90 cm x 98 cm h = 45 cm |
| Quantity for pallet | 24 Pieces | Pallet weight | 792 kg |

SYSTEM DETAILS

HORIZONTAL PANEL LAYING

Side view

Fixed distance between rows of modules



Top view



INFO

- The torque applied shall refer to the mechanical standard conforming to the bolt in use; with M8 bolts in stainless steel use a torque of 12 - 14 Nm
- Avoid screwdrivers impulse
- It's recommended to consult the information indicated in the assembly instructions of the panel manufacturer
- Always follow Sun Ballast assembly instructions.
- The dimensions shown in the figure are all expressed in centimeters.
- Minimum recommended configuration: 5 rows of 5 panels.
- For short side panel dimensions greater than 1m it is advisable to consult our technical department.
- For any information visit the website www.sunballast.it

B. SUN BALLAST TECHNICAL SHEETS

10° CONNECT SYSTEM

Art. 230010.CF/.CR/.CRT



| | | | |
|--------------------------|--|---------------------------|------------|
| Material | The main material of SUN BALLAST is concrete, which allows a low wear over time and the ability to withstand even the most intense perturbations and different climatic conditions | | |
| Application | Any type of flat roof with a maximum slope of 5° on the ground, on beaten ground with inert material or pavements | | |
| Inclination Angle | 10° | Module positioning | Horizontal |

Front Ballast Art. 23010.CF

| | | | |
|----------------------------|-----------|--------------------------|------------------------|
| Ballast weight | 20 kg | Pallet dimensions | 90 cm x 98 cm h= 35 cm |
| Quantity for pallet | 24 Pieces | Pallet weight | 480 kg |

Central Ballast Art. 23010.CR

| | | | |
|----------------------------|-----------|--------------------------|-------------------------|
| Ballast weight | 22 kg | Pallet dimensions | 120 cm x 80 cm h= 46 cm |
| Quantity for pallet | 24 Pieces | Pallet weight | 528 kg |

Terminale Ballast Art. 23010.CRT

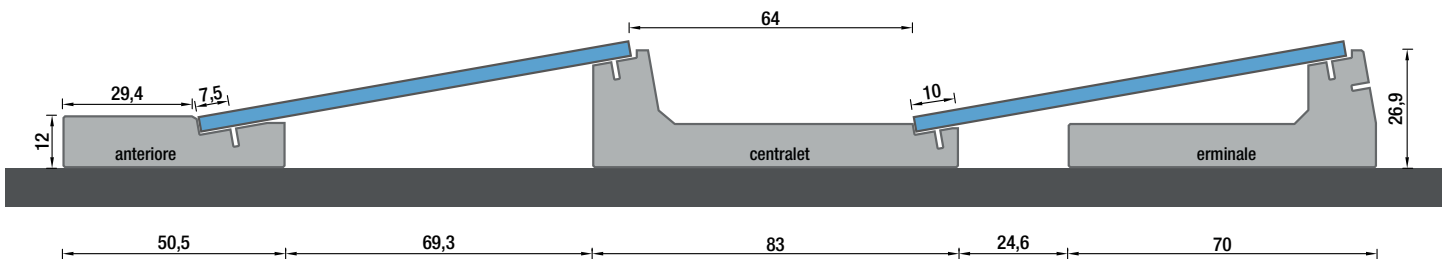
| | | | |
|----------------------------|-----------|--------------------------|-------------------------|
| Ballast weight | 33 kg | Pallet dimensions | 120 cm x 70 cm h= 46 cm |
| Quantity for pallet | 14 Pieces | Pallet weight | 462 kg |

SYSTEM DETAILS

HORIZONTAL PANEL LAYING

Side view

Fixed distance between rows of modules



Top view



INFO

- The torque applied shall refer to the mechanical standard conforming to the bolt in use; with M8 bolts in stainless steel use a torque of 12 - 14 Nm
- Avoid screwdrivers impulse
- It's recommended to consult the information indicated in the assembly instructions of the panel manufacturer
- Always follow Sun Ballast assembly instructions.
- The dimensions shown in the figure are all expressed in centimeters.
- Minimum recommended configuration: 5 rows of 5 panels.
- For short side panel dimensions greater than 1m it is advisable to consult our technical department.
- For any information visit the website www.sunballast.it

B. SUN BALLAST TECHNICAL SHEETS

10° CONNECT SYSTEM

Art. 230010.CF/.CRV/.CRTV



| | | | |
|--------------------------|--|---------------------------|----------|
| Material | The main material of SUN BALLAST is concrete, which allows a low wear over time and the ability to withstand even the most intense perturbations and different climatic conditions | | |
| Application | Any type of flat roof with a maximum slope of 5° on the ground, on beaten ground with inert material or pavements | | |
| Inclination Angle | 10° | Module positioning | Vertical |

Front Ballast Art. 23010.CF

| | | | |
|----------------------------|-----------|--------------------------|------------------------|
| Ballast weight | 20 kg | Pallet dimensions | 80 cm x 80 cm h= 42 cm |
| Quantity for pallet | 24 Pieces | Pallet weight | 480 kg |

Central Ballast Art. 23010.CRV

| | | | |
|----------------------------|-----------|--------------------------|-----------------------|
| Ballast weight | 38 kg | Pallet dimensions | 84 cm x 98cm h= 60 cm |
| Quantity for pallet | 16 Pieces | Pallet weight | 608 kg |

Terminal Ballast Art. 23010.CRTV

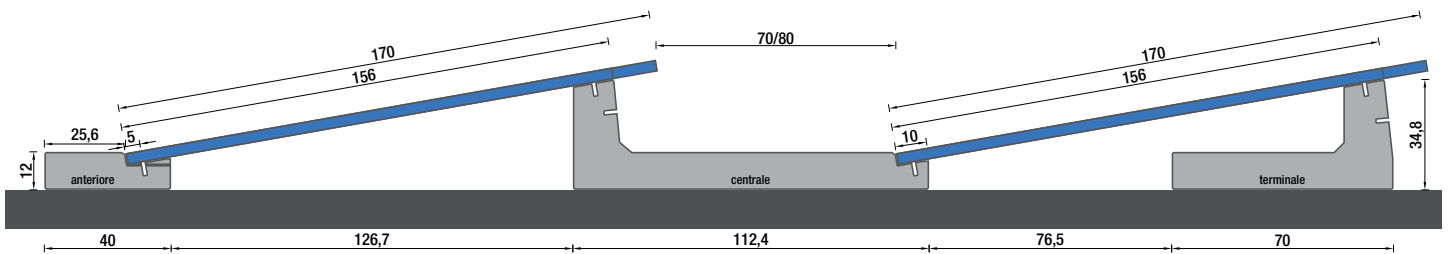
| | | | |
|----------------------------|-----------|--------------------------|-------------------------|
| Ballast weight | 33 kg | Pallet dimensions | 70 cm x 98 cm, h= 50 cm |
| Quantity for pallet | 16 Pieces | Pallet weight | 528 kg |

SYSTEM DETAILS

VERTICAL PANEL LAYING

Side view

Fixed distance between rows of modules



Top view



INFO

- The torque applied shall refer to the mechanical standard conforming to the bolt in use; with M8 bolts in stainless steel use a torque of 12 - 14 Nm
- Avoid screwdrivers impulse
- It's recommended to consult the information indicated in the assembly instructions of the panel manufacturer
- Always follow Sun Ballast assembly instructions.
- The dimensions shown in the figure are all expressed in centimeters.
- Minimum recommended configuration: 5 rows of 5 panels.
- For short side panel dimensions greater than 1m it is advisable to consult our technical department.
- For any information visit the website www.sunballast.it

B. SUN BALLAST TECHNICAL SHEETS

15° CONNECT SYSTEM

Art. 230015.CF/.CR/.CRT



| | | | |
|--------------------------|--|---------------------------|------------|
| Material | The main material of SUN BALLAST is concrete, which allows a low wear over time and the ability to withstand even the most intense perturbations and different climatic conditions | | |
| Application | Any type of flat roof with a maximum slope of 5° on the ground, on beaten ground with inert material or pavements | | |
| Inclination Angle | 15° | Module positioning | Horizontal |

Front Ballast Art. 23015.CF

| | | | |
|----------------------------|-----------|--------------------------|------------------------|
| Ballast weight | 21 kg | Pallet dimensions | 98 cm x 90 cm h= 44 cm |
| Quantity for pallet | 30 Pieces | Pallet weight | 630 kg |

Central Ballast Art. 23015.CR

| | | | |
|----------------------------|-----------|--------------------------|------------------------|
| Ballast weight | 28 kg | Pallet dimensions | 98 cm x 90 cm h= 61 cm |
| Quantity for pallet | 20 Pieces | Pallet weight | 560 kg |

Terminal Ballast Art. 23015.CRT

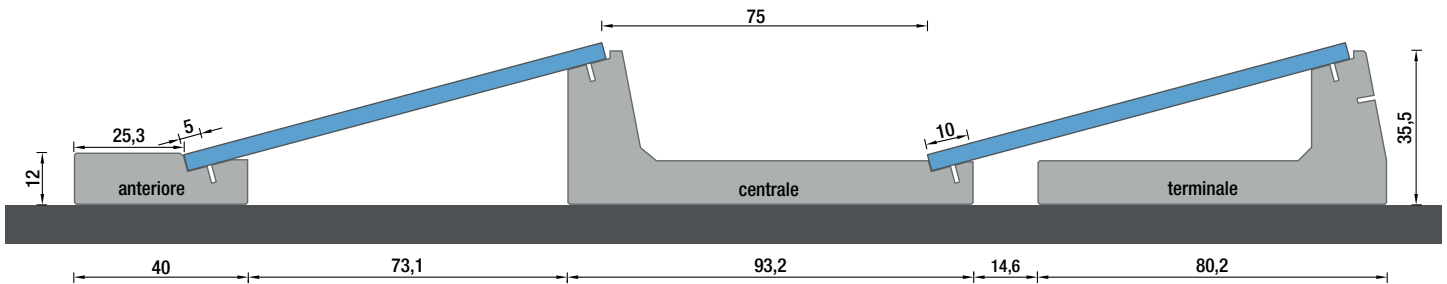
| | | | |
|----------------------------|-----------|--------------------------|------------------------|
| Ballast weight | 30 kg | Pallet dimensions | 80 cm x 80 cm h= 57 cm |
| Quantity for pallet | 14 Pieces | Pallet weight | 392 kg |

SYSTEM DETAILS

HORIZONTAL PANEL LAYING

Side view

Fixed distance between rows of modules



Top view



INFO

- The torque applied shall refer to the mechanical standard conforming to the bolt in use; with M8 bolts in stainless steel use a torque of 12 - 14 Nm
- Avoid screwdrivers impulse
- It's recommended to consult the information indicated in the assembly instructions of the panel manufacturer
- Always follow Sun Ballast assembly instructions.
- The dimensions shown in the figure are all expressed in centimeters.
- Minimum recommended configuration: 5 rows of 5 panels.
- For short side panel dimensions greater than 1m it is advisable to consult our technical department.
- For any information visit the website www.sunballast.it

B. SUN BALLAST TECHNICAL SHEETS

20° CONNECT SYSTEM

Art. 230020.CF/.CR/.CRT



| | | | |
|--------------------------|--|---------------------------|------------|
| Material | The main material of SUN BALLAST is concrete, which allows a low wear over time and the ability to withstand even the most intense perturbations and different climatic conditions | | |
| Application | Any type of flat roof with a maximum slope of 5° on the ground, on beaten ground with inert material or pavements | | |
| Inclination Angle | 20° | Module positioning | Horizontal |

Front Ballast Art. 23020.CF

| | | | |
|----------------------------|-----------|--------------------------|-------------------------|
| Ballast weight | 22 kg | Pallet dimensions | 70 cm x 98 cm h = 52 cm |
| Quantity for pallet | 30 Pieces | Pallet weight | 660 kg |

Central Ballast Art. 23020.CR

| | | | |
|----------------------------|-----------|--------------------------|-------------------------|
| Ballast weight | 33 kg | Pallet dimensions | 90 cm x 86 cm h = 64 cm |
| Quantity for pallet | 18 Pieces | Pallet weight | 594 kg |

Terminal Ballast Art. 23020.CRT

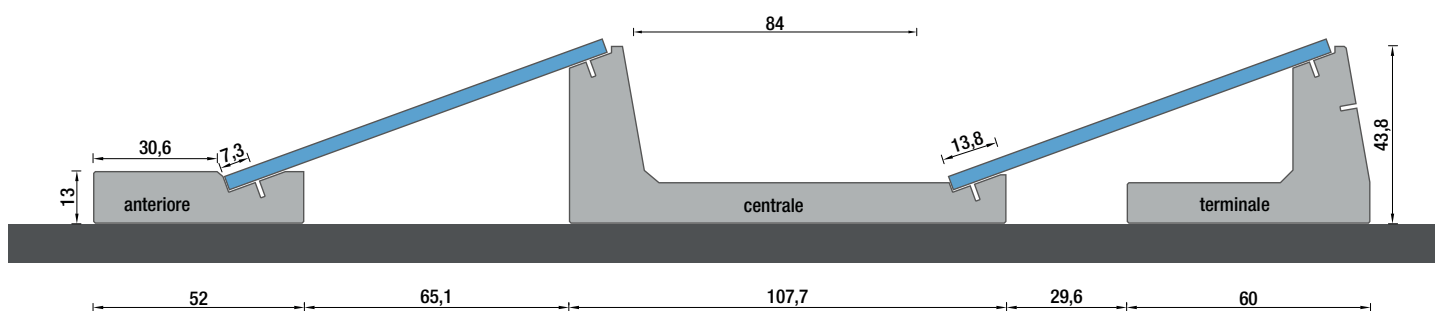
| | | | |
|----------------------------|-----------|--------------------------|-------------------------|
| Ballast weight | 35 kg | Pallet dimensions | 70 cm x 98 cm h = 70 cm |
| Quantity for pallet | 16 Pieces | Pallet weight | 560 kg |

SYSTEM DETAILS

HORIZONTAL PANEL LAYING

Side view

Fixed distance between rows of modules



Top view



INFO

- The torque applied shall refer to the mechanical standard conforming to the bolt in use; with M8 bolts in stainless steel use a torque of 12 - 14 Nm
- Avoid screwdrivers impulse
- It's recommended to consult the information indicated in the assembly instructions of the panel manufacturer
- Always follow Sun Ballast assembly instructions.
- The dimensions shown in the figure are all expressed in centimeters.
- Minimum recommended configuration: 5 rows of 5 panels.
- For short side panel dimensions greater than 1m it is advisable to consult our technical department.
- For any information visit the website www.sunballast.it

B. SUN BALLAST TECHNICAL SHEETS

30° CONNECT SYSTEM

Art. 230030.CF/.CR/.CRT



| | | | |
|--------------------------|--|---------------------------|------------|
| Material | The main material of SUN BALLAST is concrete, which allows a low wear over time and the ability to withstand even the most intense perturbations and different climatic conditions | | |
| Application | Any type of flat roof with a maximum slope of 5° on the ground, on beaten ground with inert material or pavements | | |
| Inclination Angle | 30° | Module positioning | Horizontal |

Front Ballast Art. 23030.CF

| | | | |
|----------------------------|-----------|--------------------------|-------------------------|
| Ballast weight | 20 kg | Pallet dimensions | 86 cm x 86 cm h = 60 cm |
| Quantity for pallet | 30 Pieces | Pallet weight | 600 kg |

Central Ballast Art. 23030.CR

| | | | |
|----------------------------|-----------|--------------------------|--------------------------|
| Ballast weight | 45 kg | Pallet dimensions | 125 cm x 69 cm h = 58 cm |
| Quantity for pallet | 12 Pieces | Pallet weight | 540 kg |

Terminal Ballast Art. 23030.CRT

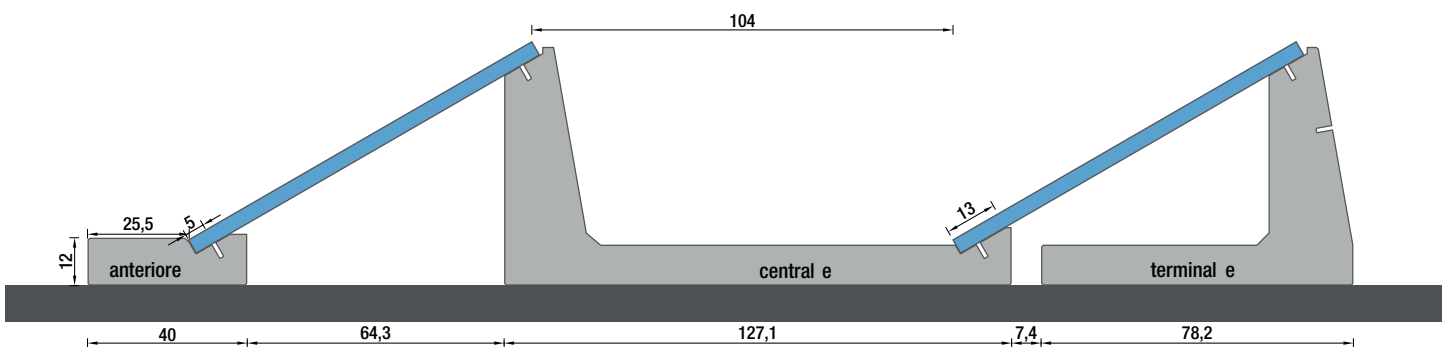
| | | | |
|----------------------------|-----------|--------------------------|-------------------------|
| Ballast weight | 45 kg | Pallet dimensions | 75 cm x 65 cm h = 84 cm |
| Quantity for pallet | 12 Pieces | Pallet weight | 540 kg |

SYSTEM DETAILS

HORIZONTAL PANEL LAYING

Side view

Fixed distance between rows of modules



Top view



INFO

- The torque applied shall refer to the mechanical standard conforming to the bolt in use; with M8 bolts in stainless steel use a torque of 12 - 14 Nm
- Avoid screwdrivers impulse
- It's recommended to consult the information indicated in the assembly instructions of the panel manufacturer
- Always follow Sun Ballast assembly instructions.
- The dimensions shown in the figure are all expressed in centimeters.
- Minimum recommended configuration: 5 rows of 5 panels.
- For short side panel dimensions greater than 1m it is advisable to consult our technical department.
- For any information visit the website www.sunballast.it

B. SUN BALLAST TECHNICAL SHEETS

BALLAST 0°.K

Art. 23000.K

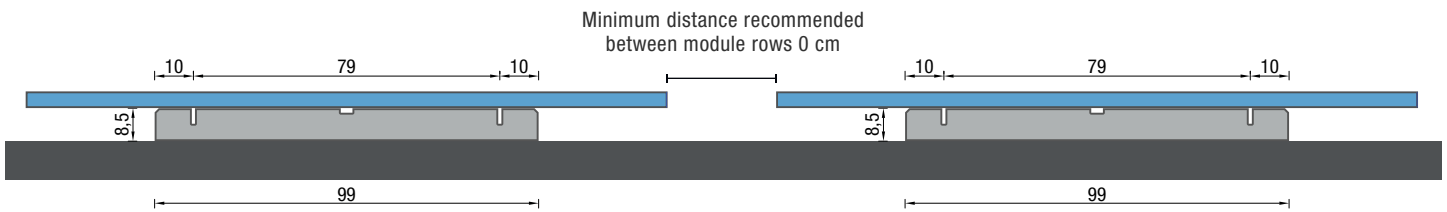


| | | | |
|-------------------------------|--|-----------------------------|-------------------------|
| Materiale | The main material of SUN BALLAST is concrete, which allows a low wear over time and the ability to withstand even the most intense perturbations and different climatic conditions | | |
| Applicazione | Any type of flat roof with a maximum slope of 5° on the ground, on beaten ground with inert material or pavements | | |
| Angolo di Inclinazione | 0° | Quantità per Bancale | 18 Pieces |
| Ballast weight | 30 kg | Pallet dimensions | 90 cm x 98 cm h = 35 cm |
| Module positioning | Horizontal / Vertical | Pallet weight | 540 kg |

SYSTEM DETAILS

VERTICAL PANEL LAYING

Side view

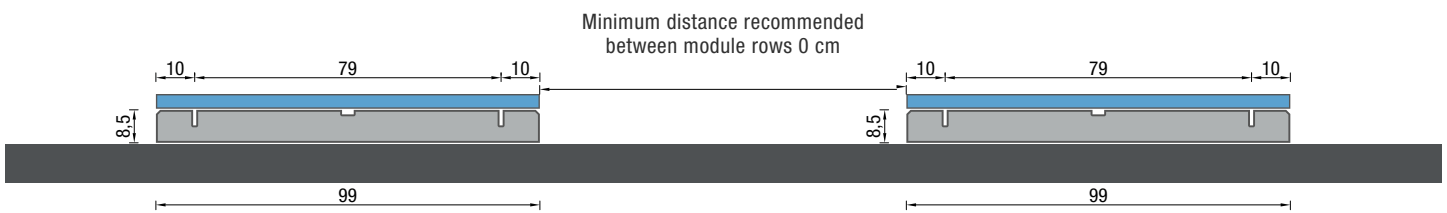


Top view



HORIZONTAL PANEL LAYING

Side view



INFO

- The torque applied shall refer to the mechanical standard conforming to the bolt in use; with M8 bolts in stainless steel use a torque of 12 - 14 Nm
- Avoid screwdrivers impulse
- It's recommended to consult the information indicated in the assembly instructions of the panel manufacturer
- Always follow Sun Ballast assembly instructions.
- The dimensions shown in the figure are all expressed in centimeters.

B. SUN BALLAST TECHNICAL SHEETS

BALLAST 3°.K

Art. 23003.K

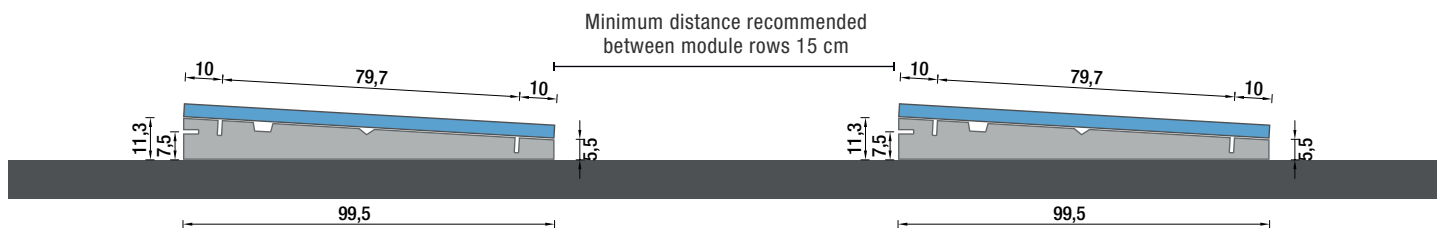


| | | | |
|---------------------------|--|----------------------------|-------------------------|
| Material | The main material of SUN BALLAST is concrete, which allows a low wear over time and the ability to withstand even the most intense perturbations and different climatic conditions | | |
| Application | Any type of flat roof with a maximum slope of 5° on the ground, on beaten ground with inert material or pavements | | |
| Inclination Angle | 3° | Quantity for pallet | 12 Pieces |
| Ballast weight | 41 kg | Pallet dimensions | 98 cm x 65 cm h = 46 cm |
| Module positioning | Horizontal / Vertical | Pallet weight | 492 kg |

SYSTEM DETAILS

HORIZONTAL PANEL LAYING

Side view

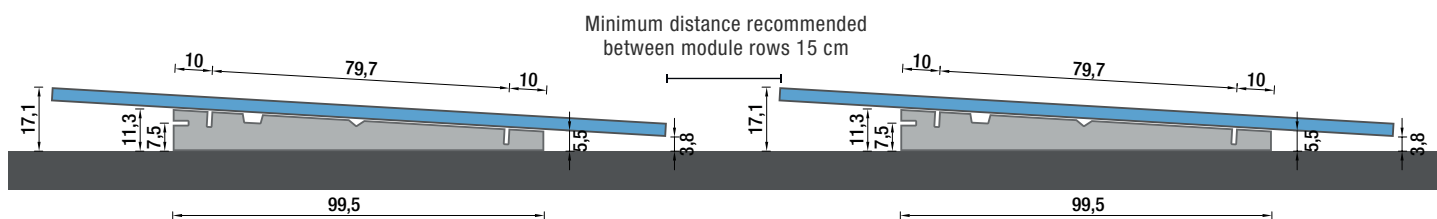


Top view



VERTICAL PANEL LAYING

Side view



INFO

- The torque applied shall refer to the mechanical standard conforming to the bolt in use; with M8 bolts in stainless steel use a torque of 12 - 14 Nm
- Avoid screwdrivers impulse
- It's recommended to consult the information indicated in the assembly instructions of the panel manufacturer
- Always follow Sun Ballast assembly instructions.
- The dimensions shown in the figure are all expressed in centimeters.

B. SUN BALLAST TECHNICAL SHEETS

BALLAST 5°

Art. 23005



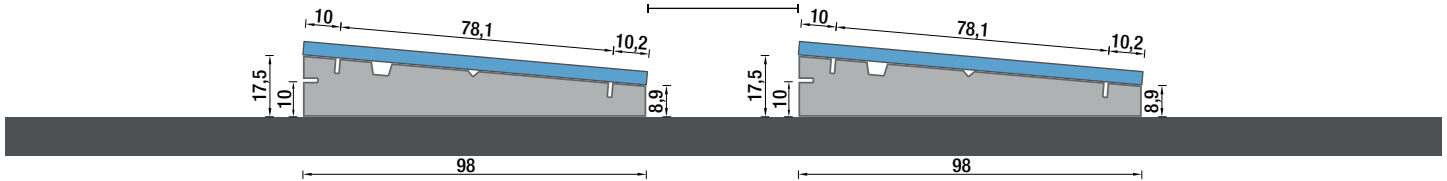
| | | | |
|---------------------------|--|----------------------------|--------------------------|
| Material | The main material of SUN BALLAST is concrete, which allows a low wear over time and the ability to withstand even the most intense perturbations and different climatic conditions | | |
| Application | Any type of flat roof with a maximum slope of 5 ° on the ground, on beaten ground with inert material or pavements | | |
| Inclination Angle | 5° | Quantity for pallet | 14 Pieces |
| Ballast weight | 39 kg | Pallet dimensions | 110 cm x 98 cm h = 35 cm |
| Module positioning | Horizontal / Vertical | Pallet weight | 546 kg |

SYSTEM DETAILS

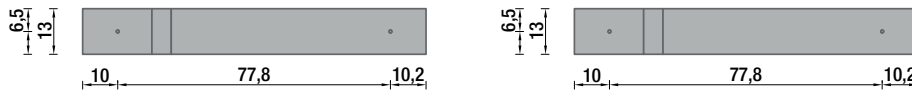
HORIZONTAL PANEL LAYING

Side view

Minimum distance recommended between module rows 40 cm



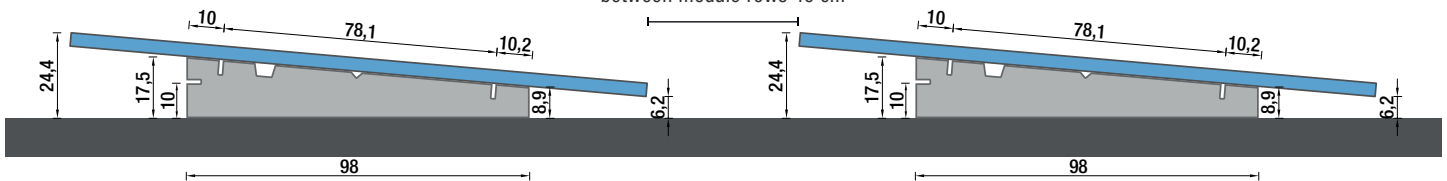
Top view



VERTICAL PANEL LAYING

Side view

Minimum distance recommended between module rows 40 cm



INFO

- The torque applied shall refer to the mechanical standard conforming to the bolt in use; with M8 bolts in stainless steel use a torque of 12 - 14 Nm
- Avoid screwdrivers impulse
- It's recommended to consult the information indicated in the assembly instructions of the panel manufacturer
- Always follow Sun Ballast assembly instructions.
- The dimensions shown in the figure are all expressed in centimeters.

B. SUN BALLAST TECHNICAL SHEETS

BALLAST 5°.2

Art. 23005.2



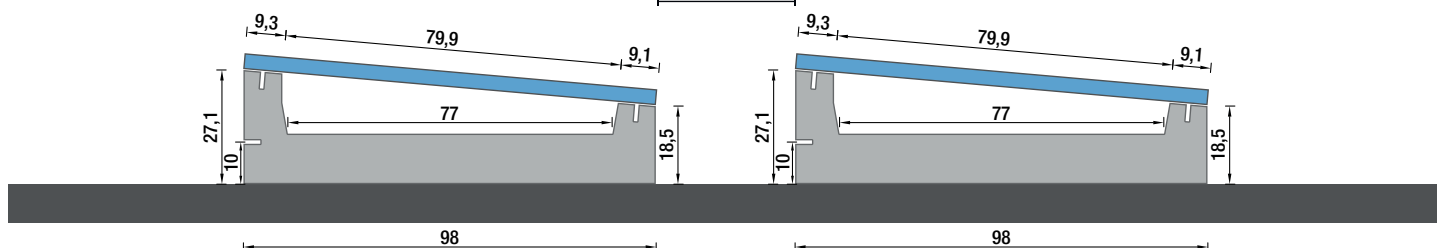
| | | | |
|---------------------------|--|----------------------------|-------------------------|
| Material | The main material of SUN BALLAST is concrete, which allows a low wear over time and the ability to withstand even the most intense perturbations and different climatic conditions | | |
| Application | Any type of flat roof with a maximum slope of 5 ° on the ground, on beaten ground with inert material or pavements | | |
| Inclination Angle | 5° | Quantity for pallet | 12 Pieces |
| Ballast weight | 41 kg | Pallet dimensions | 90 cm x 98 cm h = 35 cm |
| Module positioning | Horizontal / Vertical | Pallet weight | 492 kg |

SYSTEM DETAILS

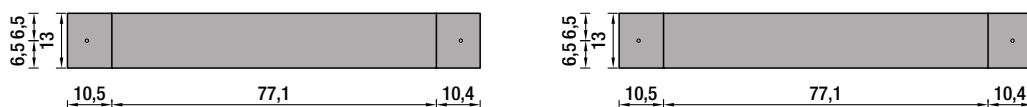
HORIZONTAL PANEL LAYING

Side view

Minimum distance recommended
between module row 40 cm



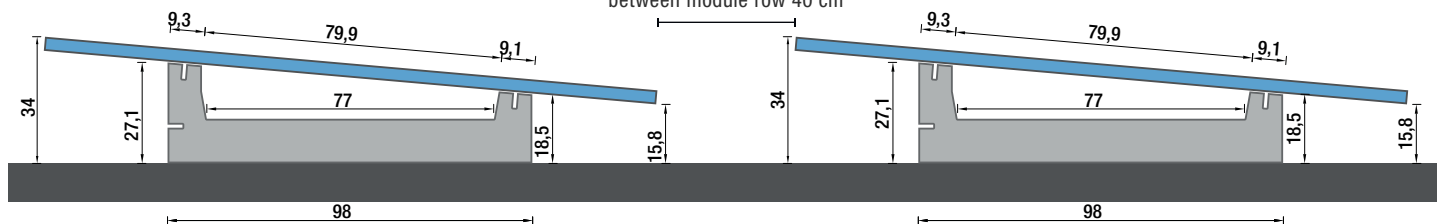
Top view



VERTICAL PANEL LAYING

Side view

Minimum distance recommended
between module row 40 cm



INFO

- The torque applied shall refer to the mechanical standard conforming to the bolt in use; with M8 bolts in stainless steel use a torque of 12 - 14 Nm
- Avoid screwdrivers impulse
- It's recommended to consult the information indicated in the assembly instructions of the panel manufacturer
- Always follow Sun Ballast assembly instructions.
- The dimensions shown in the figure are all expressed in centimeters.

B. SUN BALLAST TECHNICAL SHEETS

BALLAST 5°.3

Art. 23005.3



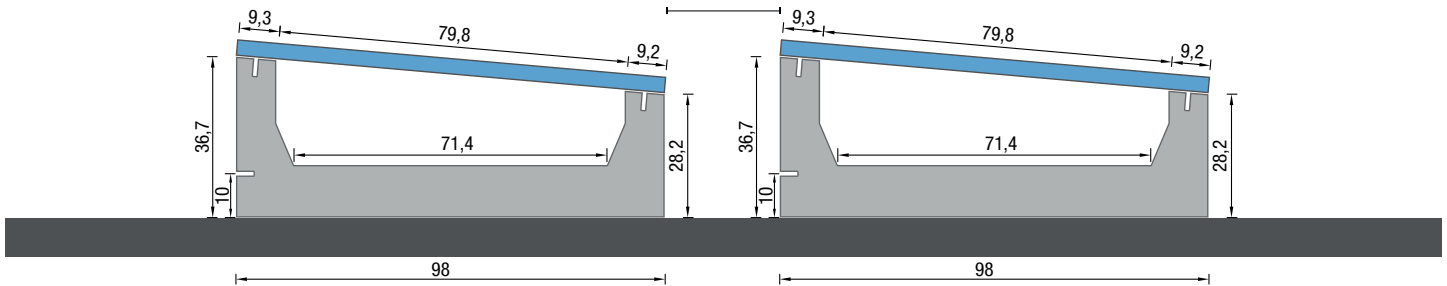
| | | | |
|---------------------------|--|----------------------------|--------------------------|
| Material | The main material of SUN BALLAST is concrete, which allows a low wear over time and the ability to withstand even the most intense perturbations and different climatic conditions | | |
| Application | Any type of flat roof with a maximum slope of 5 ° on the ground, on beaten ground with inert material or pavements | | |
| Inclination Angle | 5° | Quantity for pallet | 12 Pieces |
| Ballast weight | 49 kg | Pallet dimensions | 130 cm x 98 cm h = 35 cm |
| Module positioning | Horizontal / Vertical | Pallet weight | 588 kg |

SYSTEM DETAILS

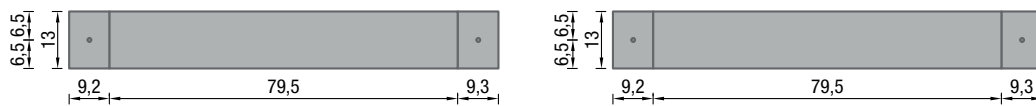
HORIZONTAL PANEL LAYING

Side view

Minimum distance recommended
between module row 40 cm



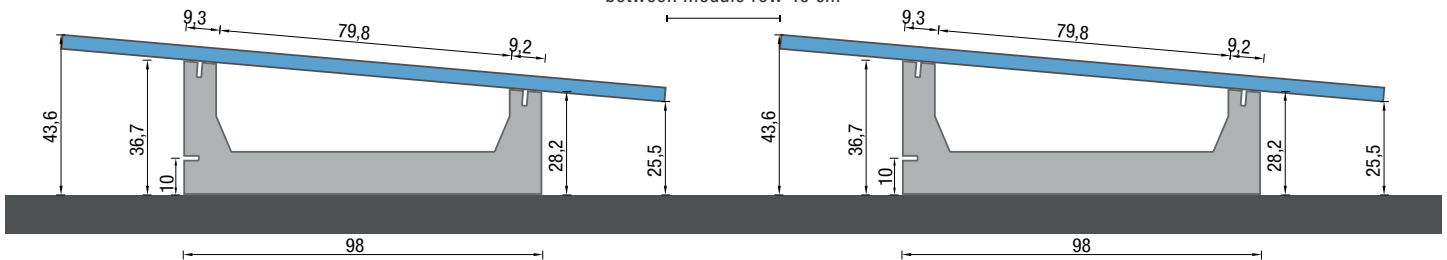
Top view



VERTICAL PANEL LAYING

Side view

Minimum distance recommended
between module row 40 cm



INFO

- The torque applied shall refer to the mechanical standard conforming to the bolt in use; with M8 bolts in stainless steel use a torque of 12 - 14 Nm
- Avoid screwdrivers impulse
- It's recommended to consult the information indicated in the assembly instructions of the panel manufacturer
- Always follow Sun Ballast assembly instructions.
- The dimensions shown in the figure are all expressed in centimeters.

B. SUN BALLAST TECHNICAL SHEETS

BALLAST 5°.4

Art. 23005.4



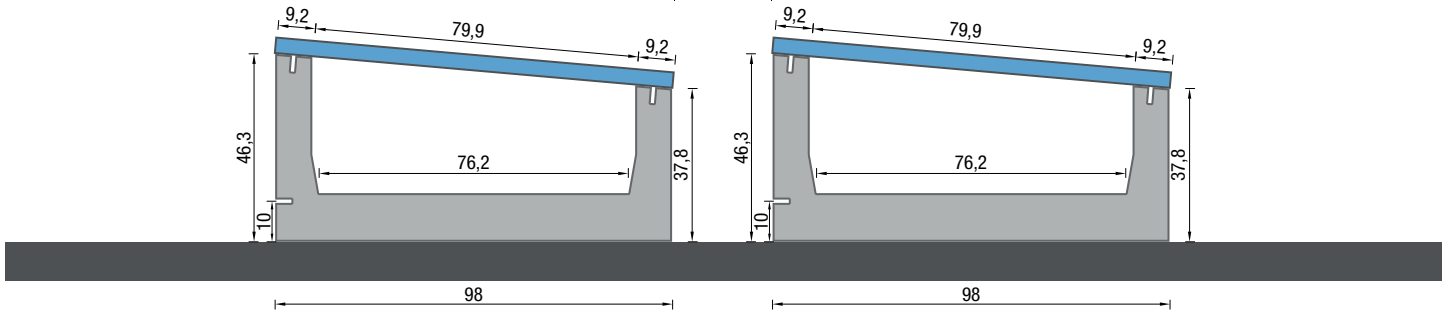
| | | | |
|---------------------------|--|-----------------------------|-------------------------|
| Material | The main material of SUN BALLAST is concrete, which allows a low wear over time and the ability to withstand even the most intense perturbations and different climatic conditions | | |
| Application | Any type of flat roof with a maximum slope of 5 ° on the ground, on beaten ground with inert material or pavements | | |
| Inclination Angle | 5° | Quantità per bancale | 10 Pieces |
| Ballast weight | 53 kg | Dimensioni bancale | 90 cm x 98 cm h = 74 cm |
| Module positioning | Horizontal / Vertical | Peso bancale | 530 kg |

SYSTEM DETAILS

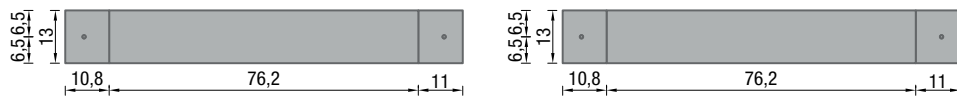
HORIZONTAL PANEL LAYING

Side view

Minimum distance recommended
between module row 40 cm



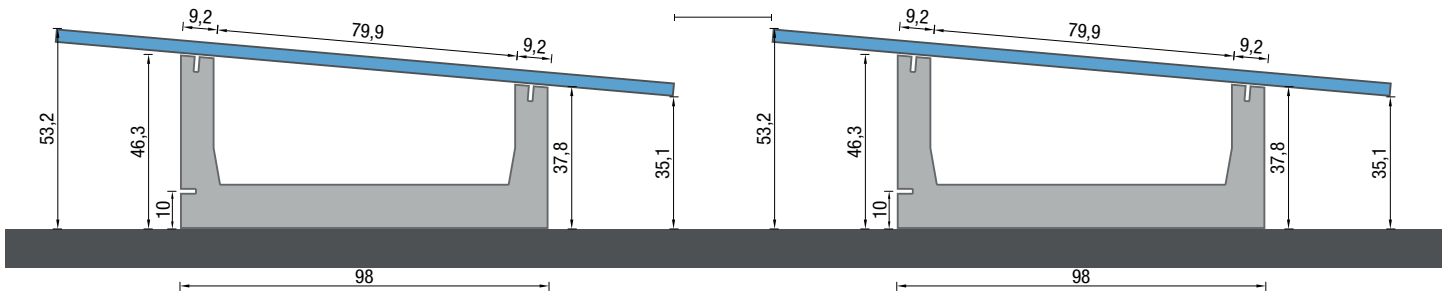
Top view



VERTICAL PANEL LAYING

Side view

Minimum distance recommended
between module row 40 cm



INFO

- The torque applied shall refer to the mechanical standard conforming to the bolt in use; with M8 bolts in stainless steel use a torque of 12 - 14 Nm
- Avoid screwdrivers impulse
- It's recommended to consult the information indicated in the assembly instructions of the panel manufacturer
- Always follow Sun Ballast assembly instructions.
- The dimensions shown in the figure are all expressed in centimeters.

B. SUN BALLAST TECHNICAL SHEETS

BALLAST 5°.5

Art. 23005.5



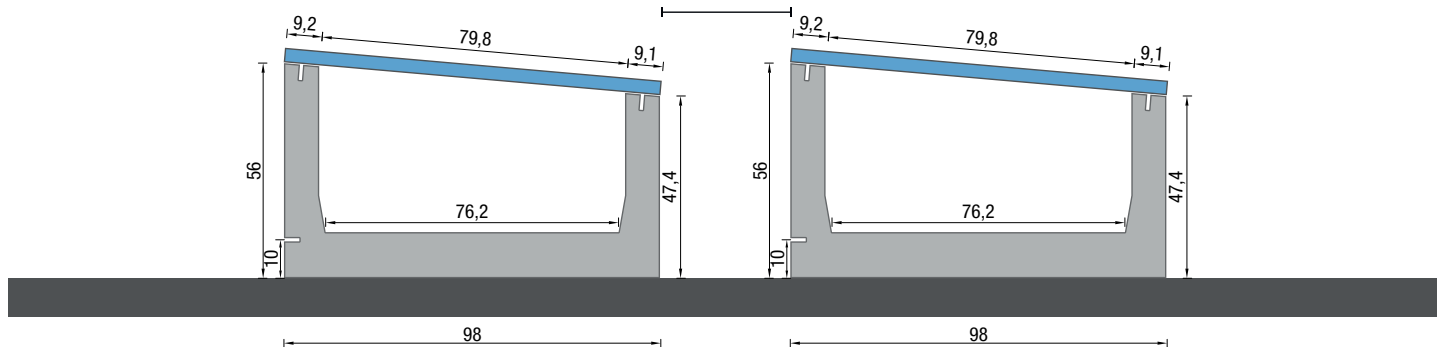
| | | | |
|---------------------------|--|-----------------------------|--------------------------|
| Material | The main material of SUN BALLAST is concrete, which allows a low wear over time and the ability to withstand even the most intense perturbations and different climatic conditions | | |
| Application | Any type of flat roof with a maximum slope of 5 ° on the ground, on beaten ground with inert material or pavements | | |
| Inclination Angle | 5° | Quantità per bancale | 10 Pieces |
| Ballast weight | 59 kg | Dimensioni bancale | 110 cm x 98 cm h = 74 cm |
| Module positioning | Horizontal / Vertical | Peso bancale | 590 kg |

SYSTEM DETAILS

HORIZONTAL PANEL LAYING

Side view

Minimum distance recommended
between module row 40 cm



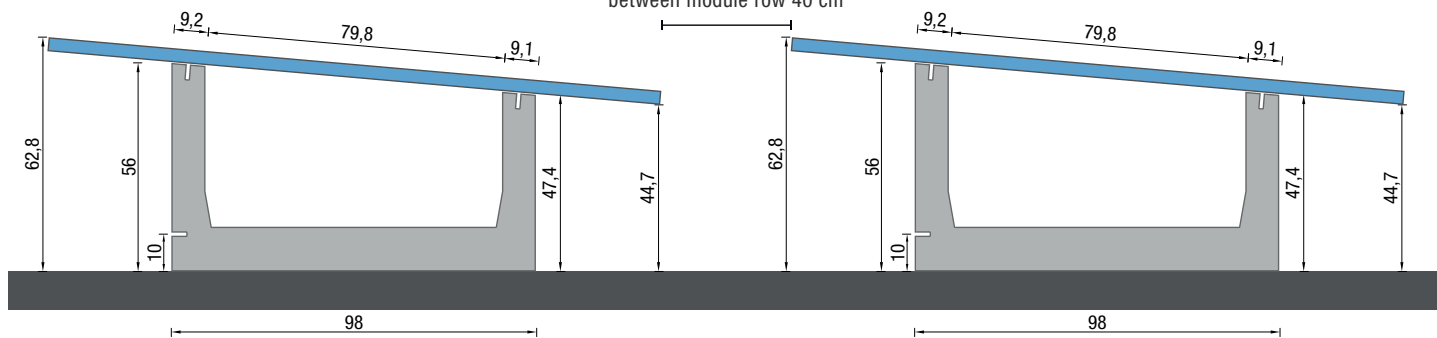
Top view



VERTICAL PANEL LAYING

Side view

Minimum distance recommended
between module row 40 cm



INFO

- The torque applied shall refer to the mechanical standard conforming to the bolt in use; with M8 bolts in stainless steel use a torque of 12 - 14 Nm
- Avoid screwdrivers impulse
- It's recommended to consult the information indicated in the assembly instructions of the panel manufacturer
- Always follow Sun Ballast assembly instructions.
- The dimensions shown in the figure are all expressed in centimeters.

B. SUN BALLAST TECHNICAL SHEETS

BALLAST 5°.6

Art. 23005.6



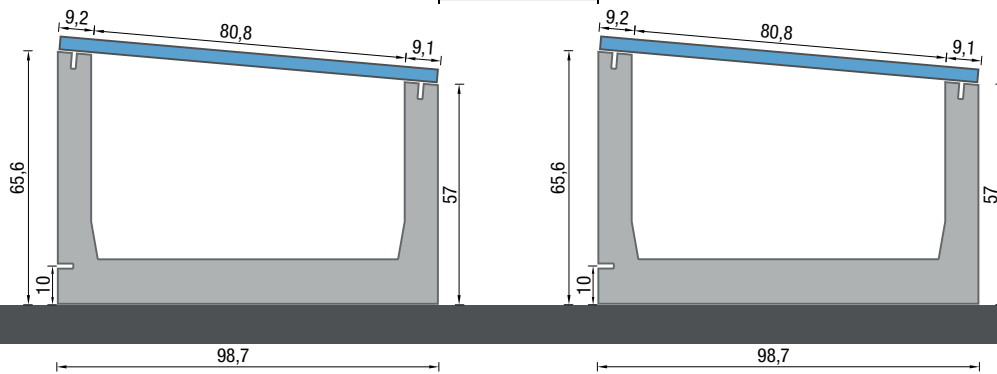
| | | | |
|---------------------------|--|----------------------------|--------------------------|
| Material | The main material of SUN BALLAST is concrete, which allows a low wear over time and the ability to withstand even the most intense perturbations and different climatic conditions | | |
| Application | Any type of flat roof with a maximum slope of 5° on the ground, on beaten ground with inert material or pavements | | |
| Inclination Angle | 5° | Quantity for pallet | 8 Pieces |
| Ballast weight | 64 kg | Pallet dimensions | 130 cm x 98 cm h = 61 cm |
| Module positioning | Horizontal / Vertical | Pallet weight | 512 kg |

SYSTEM DETAILS

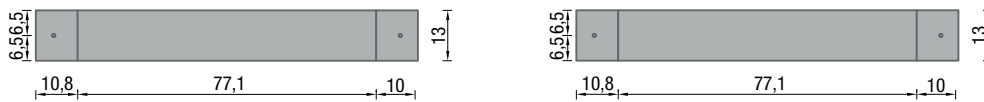
HORIZONTAL PANEL LAYING

Side view

Minimum distance recommended
between module row 40 cm



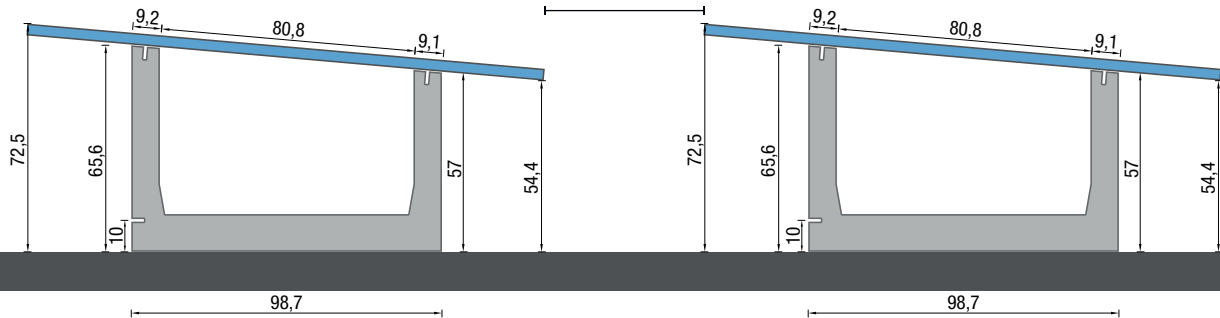
Top view



VERTICAL PANEL LAYING

Side view

Minimum distance recommended
between module row 40 cm



INFO

- The torque applied shall refer to the mechanical standard conforming to the bolt in use; with M8 bolts in stainless steel use a torque of 12 - 14 Nm
- Avoid screwdrivers impulse
- It's recommended to consult the information indicated in the assembly instructions of the panel manufacturer
- Always follow Sun Ballast assembly instructions.
- The dimensions shown in the figure are all expressed in centimeters.

B. SUN BALLAST TECHNICAL SHEETS

BALLAST 10°.V

Art. 23010.V



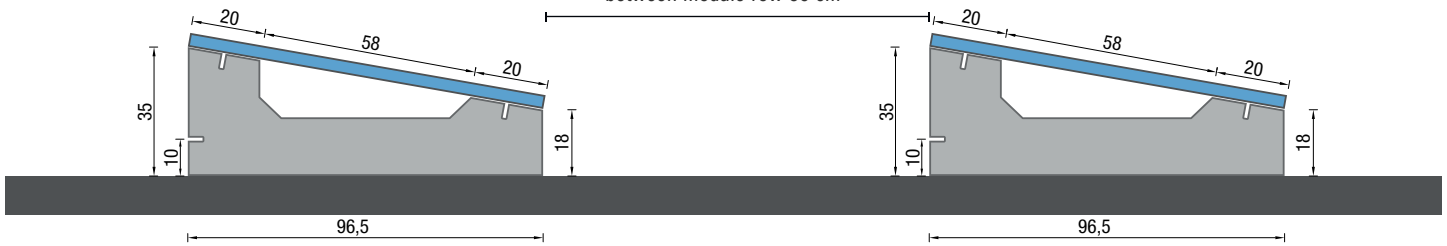
| | | | |
|---------------------------|--|----------------------------|-------------------------|
| Material | The main material of SUN BALLAST is concrete, which allows a low wear over time and the ability to withstand even the most intense perturbations and different climatic conditions | | |
| Application | Any type of flat roof with a maximum slope of 5 ° on the ground, on beaten ground with inert material or pavements | | |
| Inclination Angle | 10° | Quantity for pallet | 10 Pieces |
| Ballast weight | 60 kg | Pallet dimensions | 70 cm x 98 cm h = 58 cm |
| Module positioning | Horizontal / Vertical | Pallet weight | 600 kg |

SYSTEM DETAILS

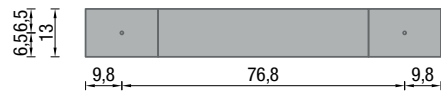
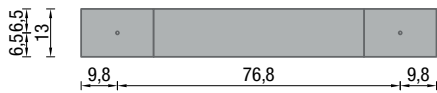
HORIZONTAL PANEL LAYING

Side view

Minimum distance recommended
between module row 60 cm



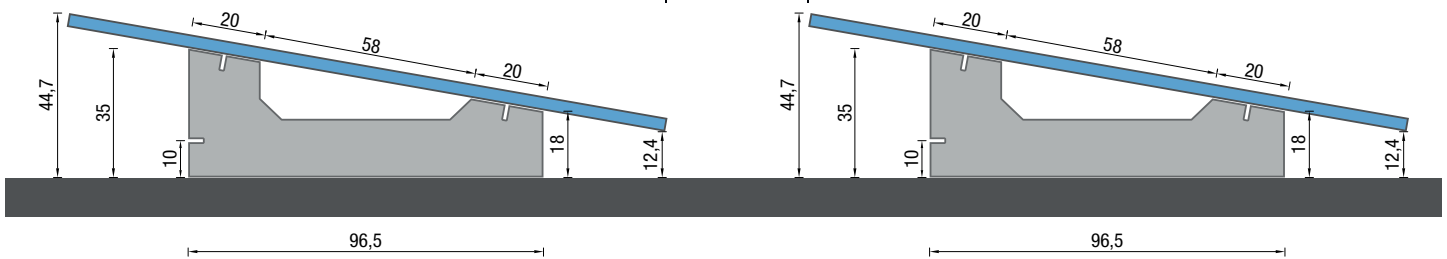
Top view



VERTICAL PANEL LAYING

Side view

Minimum distance recommended
between module row 60 cm



INFO

- The torque applied shall refer to the mechanical standard conforming to the bolt in use; with M8 bolts in stainless steel use a torque of 12 - 14 Nm
- Avoid screwdrivers impulse
- It's recommended to consult the information indicated in the assembly instructions of the panel manufacturer
- Always follow Sun Ballast assembly instructions.
- The dimensions shown in the figure are all expressed in centimeters.

B. SUN BALLAST TECHNICAL SHEETS

BALLAST 10°.L

Art. 23010.L



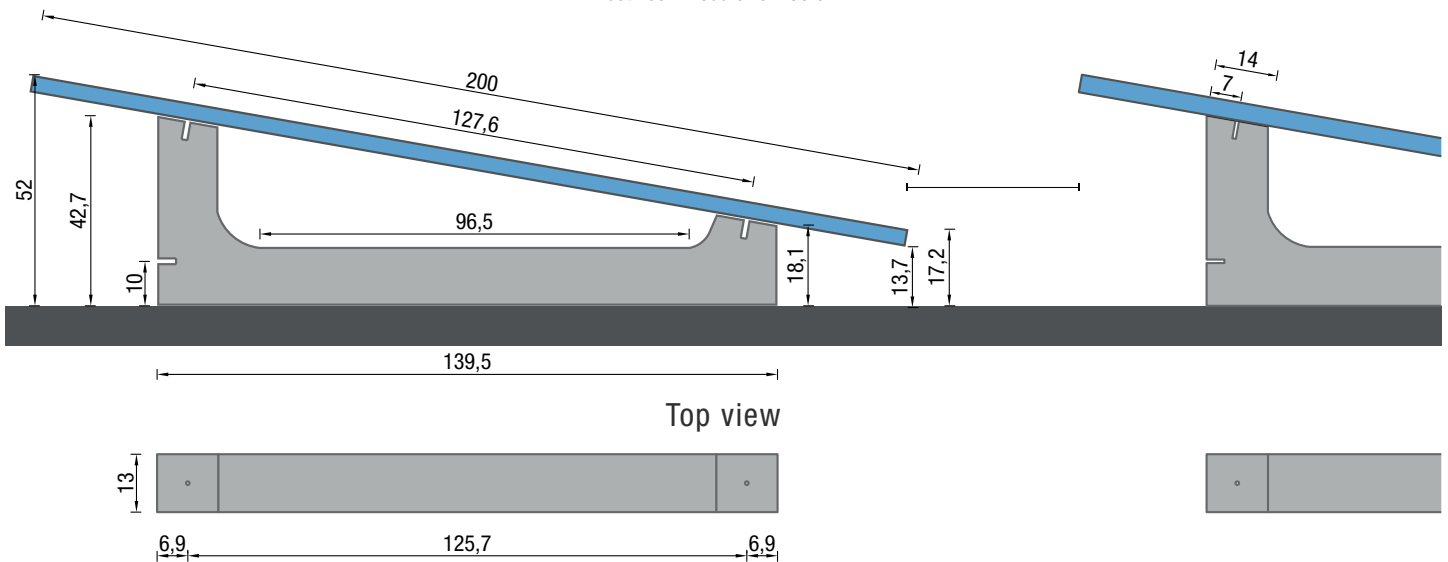
| | | | |
|---------------------------|--|----------------------------|--------------------------|
| Material | The main material of SUN BALLAST is concrete, which allows a low wear over time and the ability to withstand even the most intense perturbations and different climatic conditions | | |
| Application | Any type of flat roof with a maximum slope of 5 ° on the ground, on beaten ground with inert material or pavements | | |
| Inclination Angle | 10° | Quantity for pallet | 10 Pieces |
| Ballast weight | 70 kg | Pallet dimensions | 138 cm x 70 cm h = 72 cm |
| Module positioning | Vertical | Pallet weight | 700 kg |

SYSTEM DETAILS

VERTICAL PANEL LAYING

Side view

Minimum distance recommended
between module row 90 cm



INFO

- The torque applied shall refer to the mechanical standard conforming to the bolt in use; with M8 bolts in stainless steel use a torque of 12 - 14 Nm
- Avoid screwdrivers impulse
- It's recommended to consult the information indicated in the assembly instructions of the panel manufacturer
- Always follow Sun Ballast assembly instructions.
- The dimensions shown in the figure are all expressed in centimeters.

B. SUN BALLAST TECHNICAL SHEETS

BALLAST 11°.K

Art. 23011.K



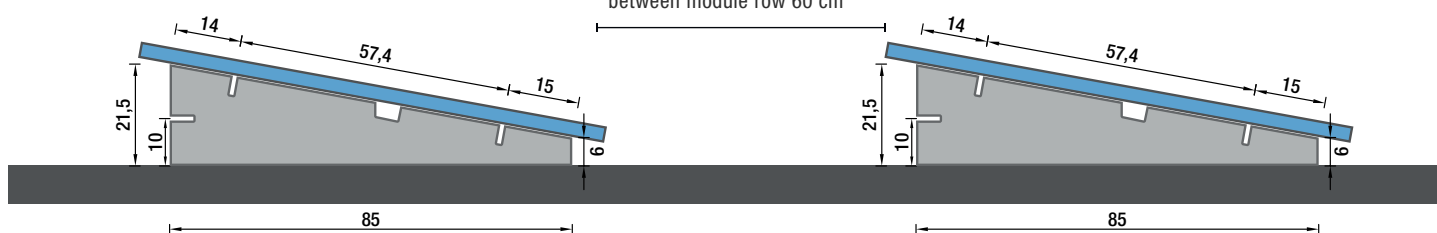
| | | | |
|---------------------------|--|----------------------------|--------------------------|
| Material | The main material of SUN BALLAST is concrete, which allows a low wear over time and the ability to withstand even the most intense perturbations and different climatic conditions | | |
| Application | Any type of flat roof with a maximum slope of 5 ° on the ground, on beaten ground with inert material or pavements | | |
| Inclination Angle | 11° | Quantity for pallet | 14 Pieces |
| Ballast weight | 42 kg | Pallet dimensions | 120 cm x 80 cm h = 40 cm |
| Module positioning | Horizontal | Pallet weight | 588 kg |

SYSTEM DETAILS

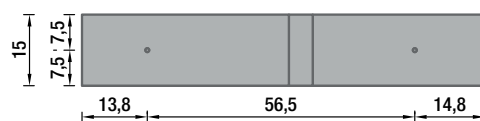
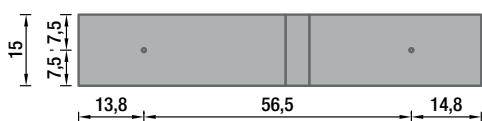
HORIZONTAL PANEL LAYING

Side view

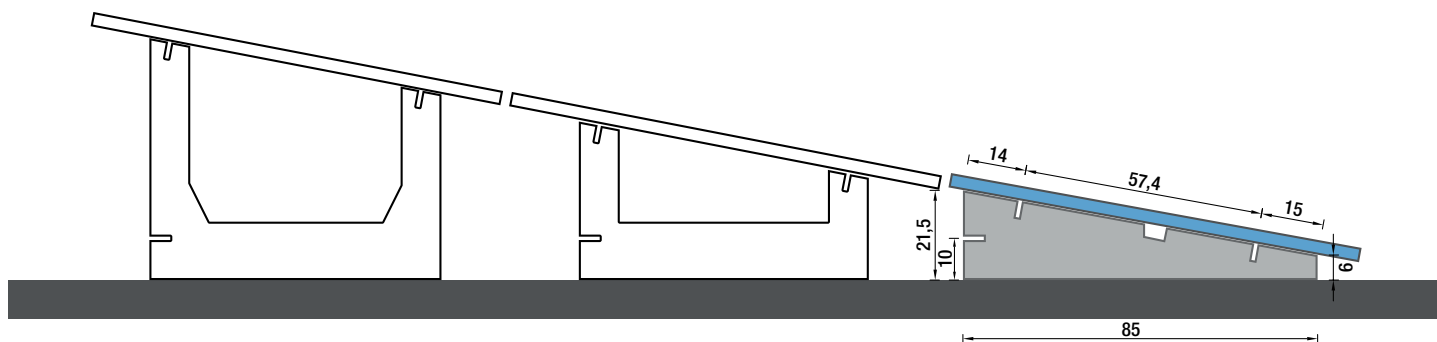
Minimum distance recommended
between module row 60 cm



Top view



Side view



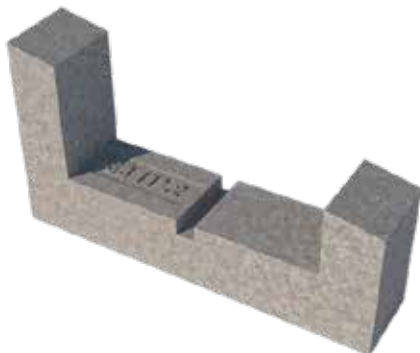
INFO

- The torque applied shall refer to the mechanical standard conforming to the bolt in use; with M8 bolts in stainless steel use a torque of 12 - 14 Nm
- Avoid screwdrivers impulse
- It's recommended to consult the information indicated in the assembly instructions of the panel manufacturer
- Always follow Sun Ballast assembly instructions.
- The dimensions shown in the figure are all expressed in centimeters.

B. SUN BALLAST TECHNICAL SHEETS

BALLAST 11°.2

Art. 23011.2



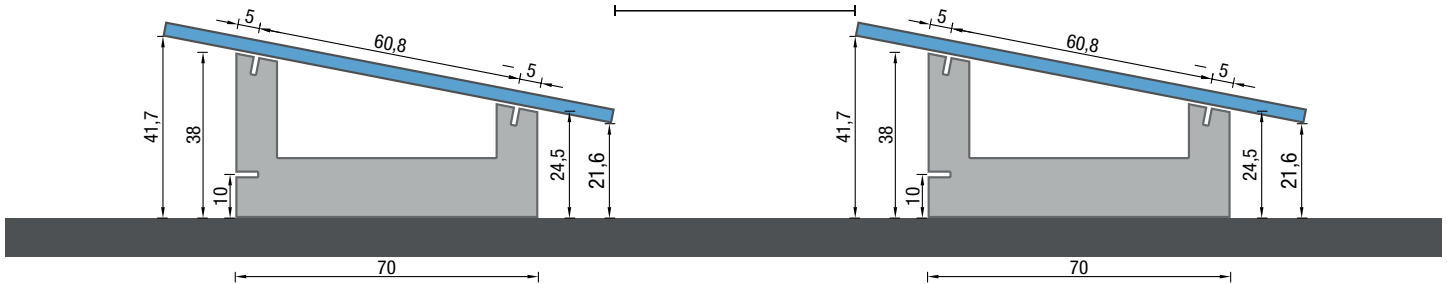
| | | | |
|---------------------------|--|----------------------------|-------------------------|
| Material | The main material of SUN BALLAST is concrete, which allows a low wear over time and the ability to withstand even the most intense perturbations and different climatic conditions | | |
| Application | Any type of flat roof with a maximum slope of 5 ° on the ground, on beaten ground with inert material or pavements | | |
| Inclination Angle | 11° | Quantity for pallet | 12 Pieces |
| Ballast weight | 44 kg | Pallet dimensions | 88 cm x 65 cm h = 74 cm |
| Module positioning | Horizontal | Pallet weight | 528 kg |

SYSTEM DETAILS

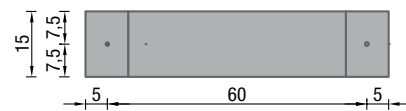
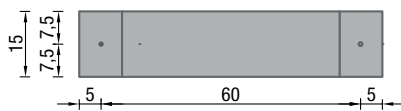
HORIZONTAL PANEL LAYING

Side view

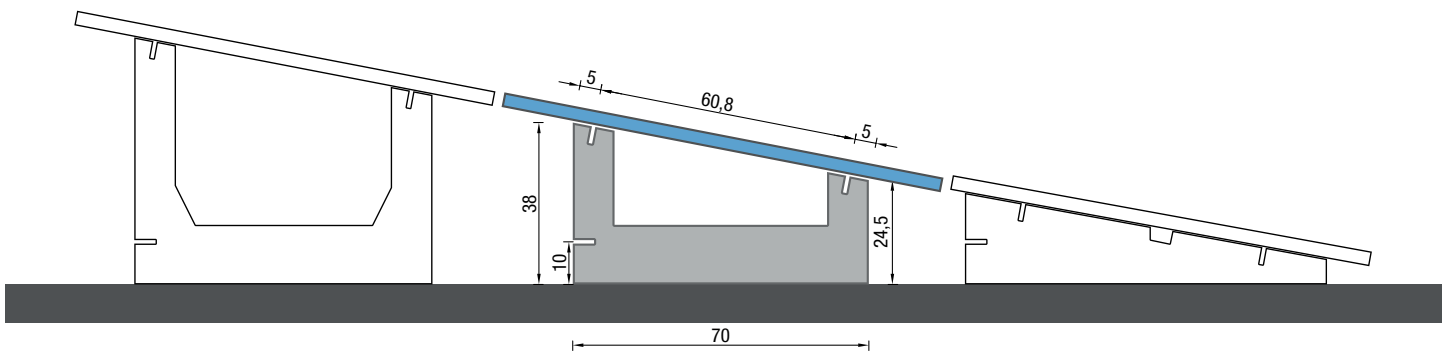
Minimum distance recommended
between module row 60 cm



Top view



Side view



INFO

- The torque applied shall refer to the mechanical standard conforming to the bolt in use; with M8 bolts in stainless steel use a torque of 12 - 14 Nm
- Avoid screwdrivers impulse
- It's recommended to consult the information indicated in the assembly instructions of the panel manufacturer
- Always follow Sun Ballast assembly instructions.
- The dimensions shown in the figure are all expressed in centimeters.

B. SUN BALLAST TECHNICAL SHEETS

BALLAST 11°.3

Art. 23011.3



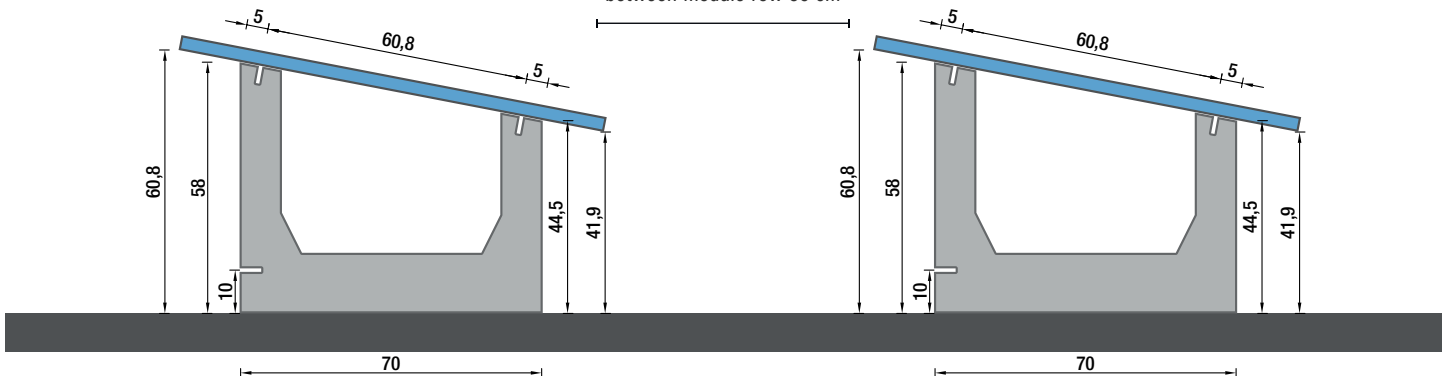
| | | | |
|---------------------------|--|----------------------------|--------------------------|
| Material | The main material of SUN BALLAST is concrete, which allows a low wear over time and the ability to withstand even the most intense perturbations and different climatic conditions | | |
| Application | Any type of flat roof with a maximum slope of 5 ° on the ground, on beaten ground with inert material or pavements | | |
| Inclination Angle | 11° | Quantity for pallet | 12 Pieces |
| Ballast weight | 61 kg | Pallet dimensions | 88 cm x 65 cm h = 113 cm |
| Module positioning | Horizontal | Pallet weight | 732 kg |

SYSTEM DETAILS

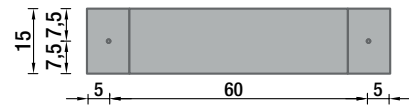
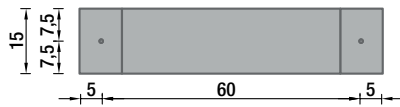
HORIZONTAL PANEL LAYING

Side view

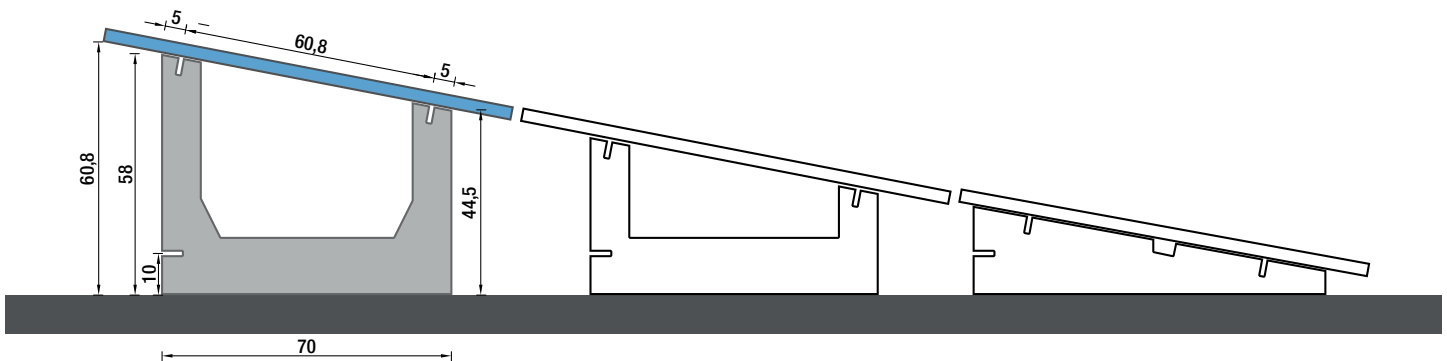
Minimum distance recommended
between module row 60 cm



Top view



Side view



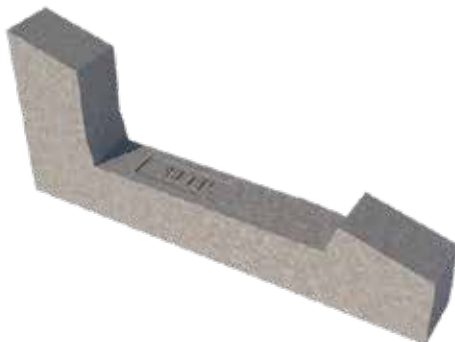
INFO

- The torque applied shall refer to the mechanical standard conforming to the bolt in use; with M8 bolts in stainless steel use a torque of 12 - 14 Nm
- Avoid screwdrivers impulse
- It's recommended to consult the information indicated in the assembly instructions of the panel manufacturer
- Always follow Sun Ballast assembly instructions.
- The dimensions shown in the figure are all expressed in centimeters.

B. SUN BALLAST TECHNICAL SHEETS

BALLAST 15°

Art. 23015



| | | | |
|---------------------------|--|----------------------------|-------------------------|
| Material | The main material of SUN BALLAST is concrete, which allows a low wear over time and the ability to withstand even the most intense perturbations and different climatic conditions | | |
| Application | Any type of flat roof with a maximum slope of 5 ° on the ground, on beaten ground with inert material or pavements | | |
| Inclination Angle | 15° | Quantity for pallet | 10 Pieces |
| Ballast weight | 47 kg | Pallet dimensions | 98 cm x 65 cm h = 62 cm |
| Module positioning | Horizontal / Vertical | Pallet weight | 470 kg |

SYSTEM DETAILS

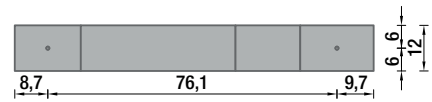
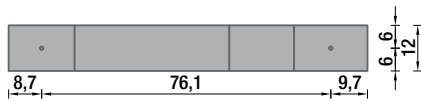
HORIZONTAL PANEL LAYING

Side view

Minimum distance recommended
between module rows 80 cm



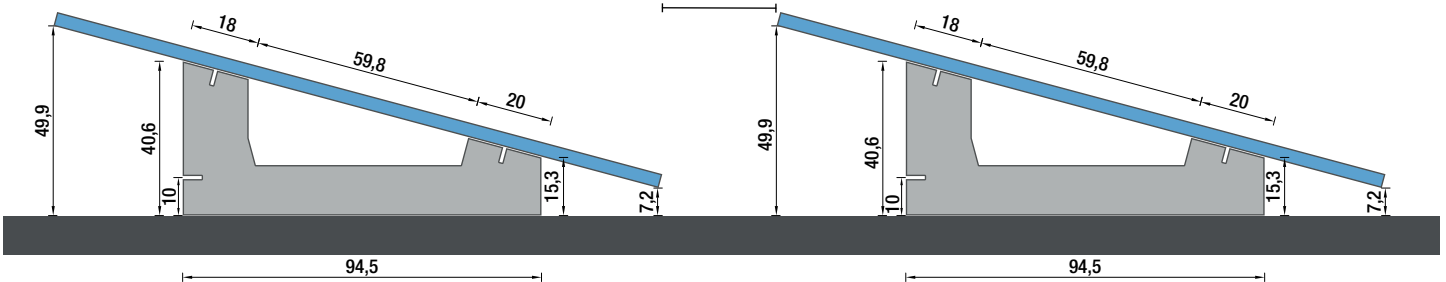
Top view



VERTICAL PANEL LAYING

Side view

Minimum distance recommended
between module rows 80 cm



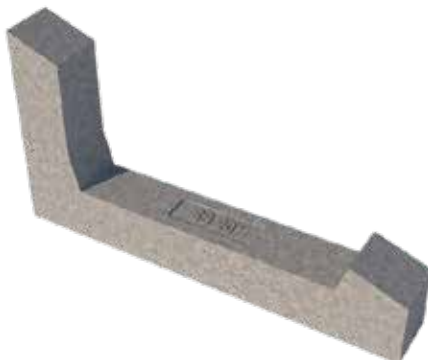
INFO

- The torque applied shall refer to the mechanical standard conforming to the bolt in use; with M8 bolts in stainless steel use a torque of 12 - 14 Nm
- Avoid screwdrivers impulse
- It's recommended to consult the information indicated in the assembly instructions of the panel manufacturer
- Always follow Sun Ballast assembly instructions.
- The dimensions shown in the figure are all expressed in centimeters.

B. SUN BALLAST TECHNICAL SHEETS

BALLAST 20°

Art. 23020



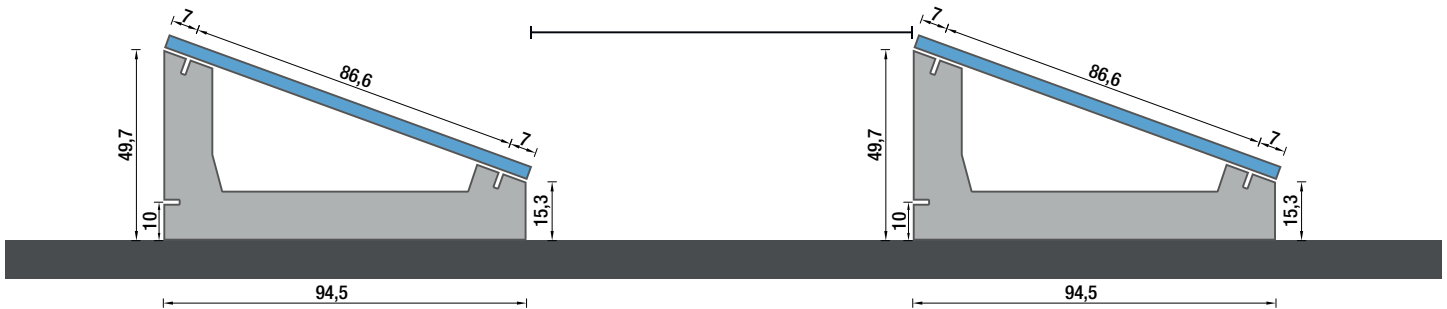
| | | | |
|---------------------------|--|----------------------------|-------------------------|
| Material | The main material of SUN BALLAST is concrete, which allows a low wear over time and the ability to withstand even the most intense perturbations and different climatic conditions | | |
| Application | Any type of flat roof with a maximum slope of 5 ° on the ground, on beaten ground with inert material or pavements | | |
| Inclination Angle | 20° | Quantity for pallet | 10 Pieces |
| Ballast weight | 54 kg | Pallet dimensions | 98 cm x 70 cm h = 62 cm |
| Module positioning | Horizontal / Vertical | Pallet weight | 540 kg |

SYSTEM DETAILS

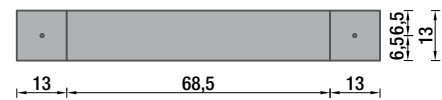
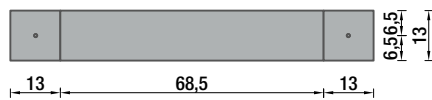
HORIZONTAL PANEL LAYING

Side view

Minimum distance recommended
between module rows 80 cm



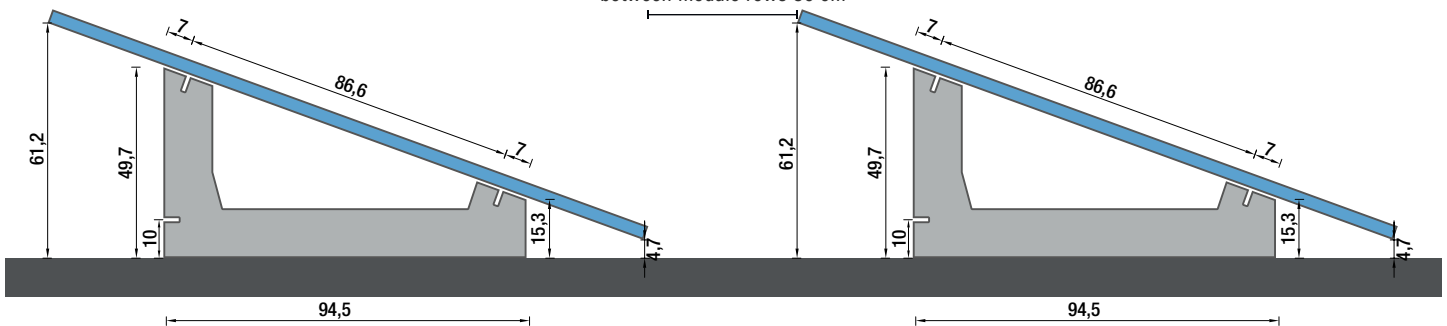
Top view



VERTICAL PANEL LAYING

Side view

Minimum distance recommended
between module rows 80 cm



INFO

- The torque applied shall refer to the mechanical standard conforming to the bolt in use; with M8 bolts in stainless steel use a torque of 12 - 14 Nm
- Avoid screwdrivers impulse
- It's recommended to consult the information indicated in the assembly instructions of the panel manufacturer
- Always follow Sun Ballast assembly instructions.
- The dimensions shown in the figure are all expressed in centimeters.

B. SUN BALLAST TECHNICAL SHEETS

BALLAST 30°.1

Art. 23030.1



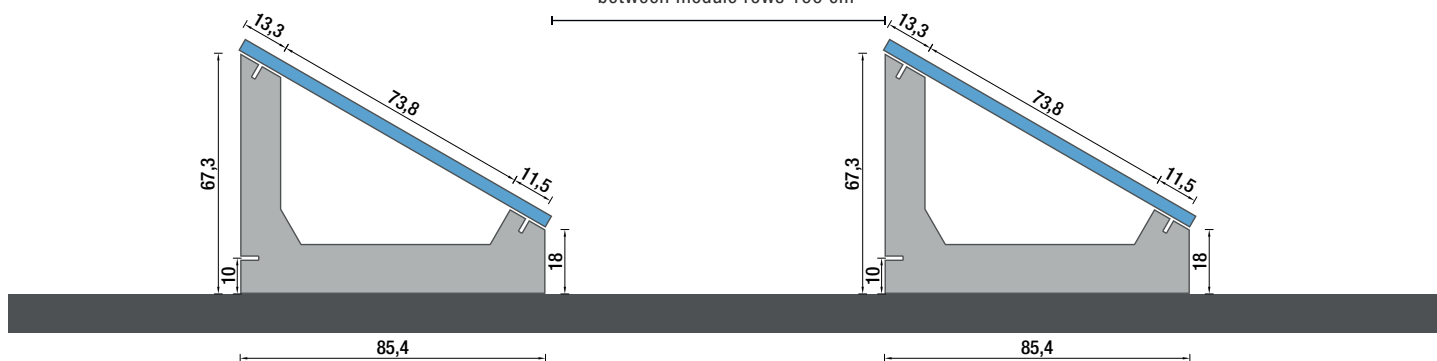
| | | | |
|---------------------------|--|----------------------------|-------------------------|
| Material | The main material of SUN BALLAST is concrete, which allows a low wear over time and the ability to withstand even the most intense perturbations and different climatic conditions | | |
| Application | Any type of flat roof with a maximum slope of 5 ° on the ground, on beaten ground with inert material or pavements | | |
| Inclination Angle | 30° | Quantity for pallet | 10 Pieces |
| Ballast weight | 58 kg | Pallet dimensions | 86 cm x 86 cm h = 92 cm |
| Module positioning | Horizontal / Vertical | Pallet weight | 580 kg |

SYSTEM DETAILS

HORIZONTAL PANEL LAYING

Side view

Minimum distance recommended between module rows 100 cm



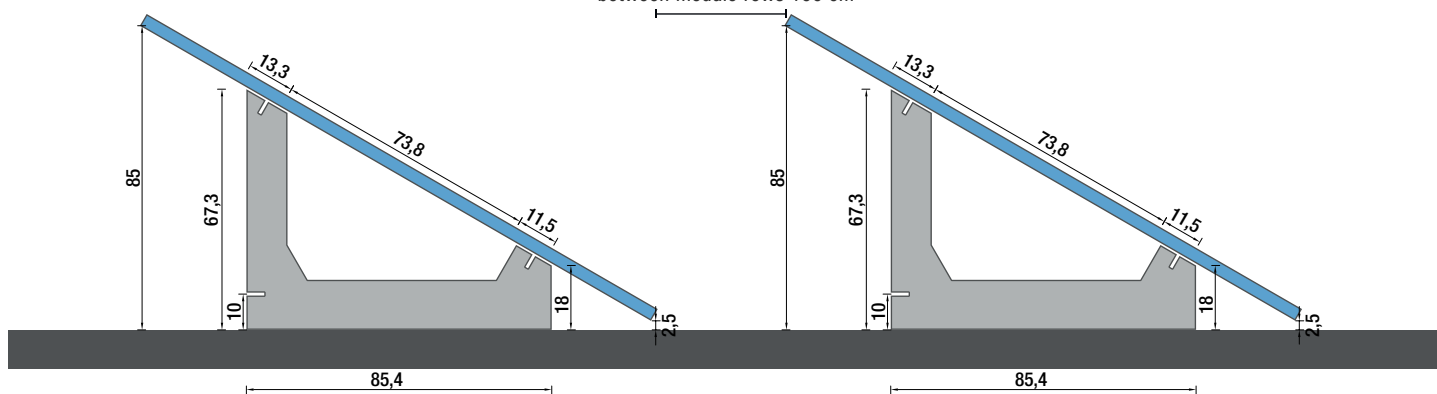
Top view



VERTICAL PANEL LAYING

Side view

Minimum distance recommended between module rows 100 cm



INFO

- The torque applied shall refer to the mechanical standard conforming to the bolt in use; with M8 bolts in stainless steel use a torque of 12 - 14 Nm
- Avoid screwdrivers impulse
- It's recommended to consult the information indicated in the assembly instructions of the panel manufacturer
- Always follow Sun Ballast assembly instructions.
- The dimensions shown in the figure are all expressed in centimeters.

B. SUN BALLAST TECHNICAL SHEETS

BALLAST 35°

Art. 23035.1



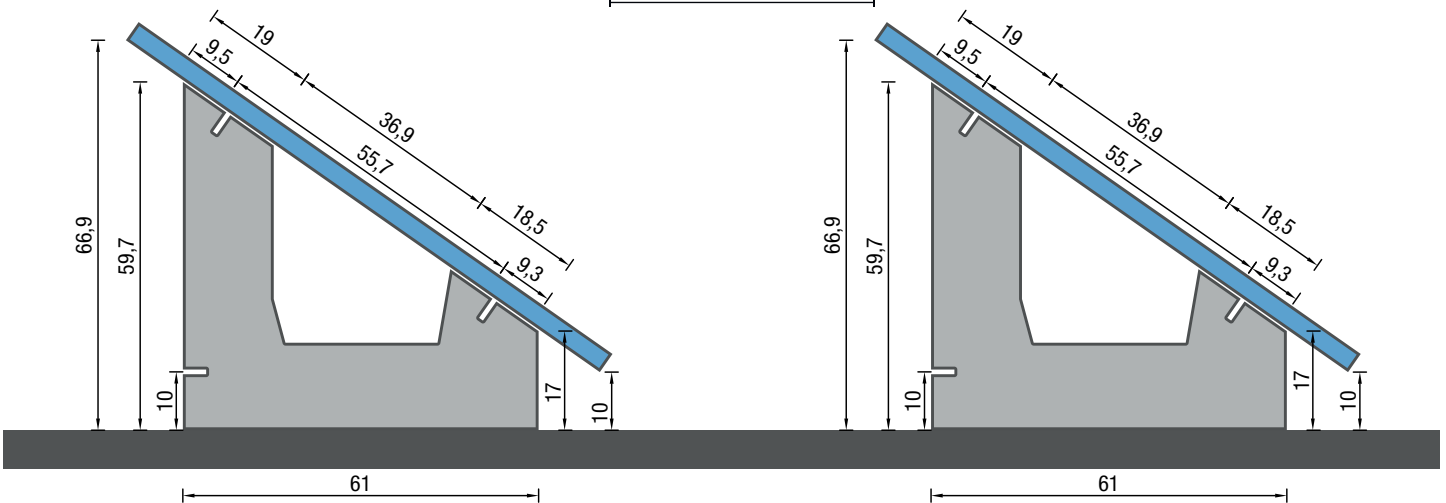
| | | | |
|---------------------------|--|----------------------------|-------------------------|
| Material | The main material of SUN BALLAST is concrete, which allows a low wear over time and the ability to withstand even the most intense perturbations and different climatic conditions | | |
| Application | Any type of flat roof with a maximum slope of 5 ° on the ground, on beaten ground with inert material or pavements | | |
| Inclination Angle | 35° | Quantity for pallet | 10 Pieces |
| Ballast weight | 60 kg | Pallet dimensions | 80 cm x 80 cm h = 84 cm |
| Module positioning | Horizontal / Vertical | Pallet weight | 600 kg |

SYSTEM DETAILS

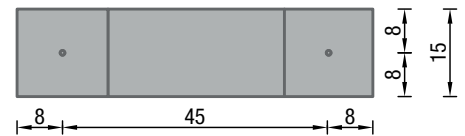
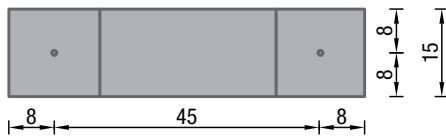
HORIZONTAL PANEL LAYING

Side view

Minimum distance recommended
between module rows 120 cm



Top view



INFO

- The torque applied shall refer to the mechanical standard conforming to the bolt in use; with M8 bolts in stainless steel use a torque of 12 - 14 Nm
- Avoid screwdrivers impulse
- It's recommended to consult the information indicated in the assembly instructions of the panel manufacturer
- Always follow Sun Ballast assembly instructions.
- The dimensions shown in the figure are all expressed in centimeters.

B. SUN BALLAST TECHNICAL SHEETS

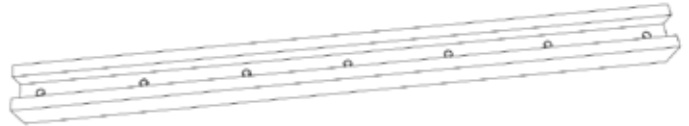
Cablowind System

CABLOWIND is a Sun Ballast accessory consisting of two elements: a concrete channel and a zinc collar that used together they allow the connection between the ballasts ensuring greater stability and load for the wind resistance of the system and the correct accommodation of the electric cables.

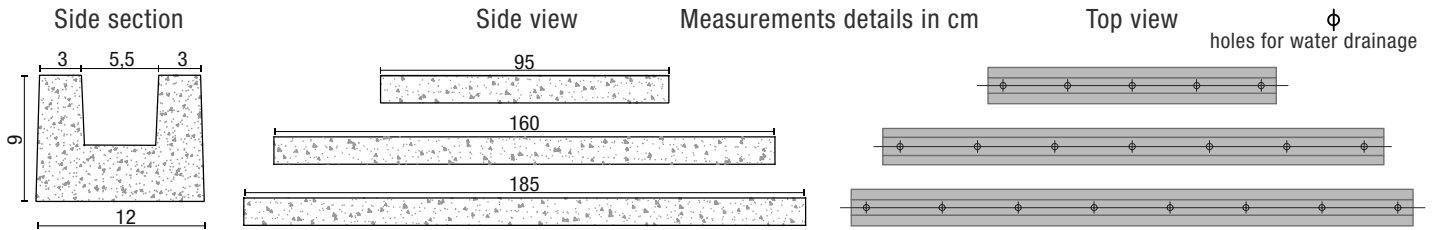
CABLOWIND is compatible with all standard Sun Ballast systems with inclination from 5 ° to 35 ° with panels both in vertical and horizontal.

Cablowind channel

| | |
|--------------------------|--|
| Material | Concrete |
| Lengths available | 95cm - vertical panel laying L=95-120cm |
| | 160cm - horizontal panel laying L=160-185cm |
| | 185cm - horizontal panel laying L=186-211cm |

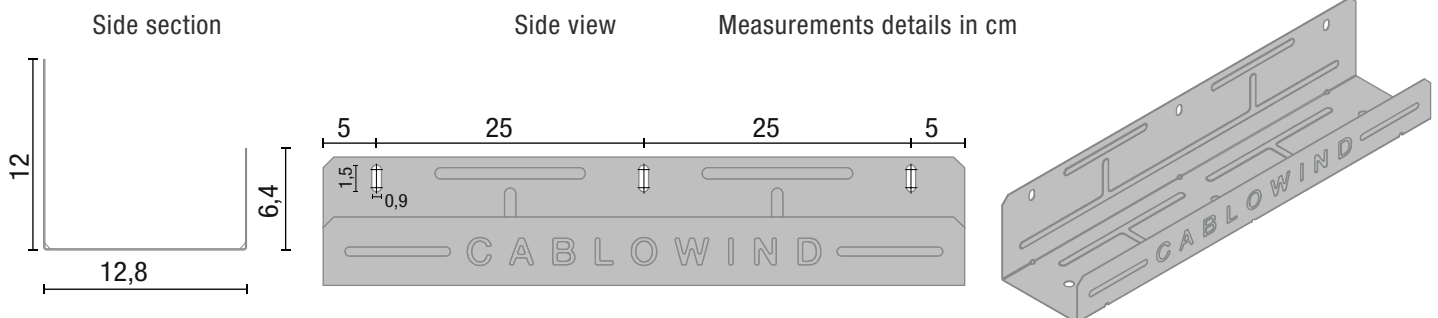


| Article Canalina | Description | Weight | Pallet size | Pallet quantity | Pallet weight |
|------------------|-----------------------------|--------|-------------|-----------------|---------------|
| cw.cablowind.95 | Cablowind channel 12x9x95cm | 17 kg | 98x70cm | 30 pieces | 510 kg |
| cw.cablowind.160 | Cablowind channel 12x9x95cm | 29 kg | 120x70cm | 18 pieces | 522 kg |
| cw.cablowind.185 | Cablowind channel 12x9x95cm | 34 kg | 120x70cm | 18 pieces | 612 kg |



Cablowind collar

| | |
|------------------|---------------|
| Article | CW.STAFFA |
| Material | Zinc magnelis |
| Thickness | 8/10 |
| Peso | 1Kg |





C. ACCESSORIES

SHEATHS

| DESCRIPTION OF THE ARTICLE | DETAIL | TYPE OF SHEATH | ARTICLE |
|--|---|----------------|---------|
| Rubber protection sheath 0.5 cm thick, cut 25 x 15 cm (2 Pieces) |  | Rubber | KG23115 |

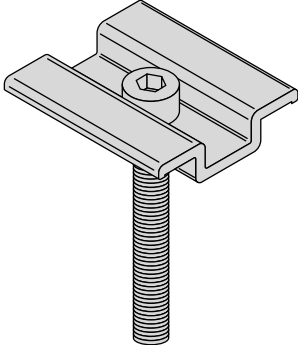
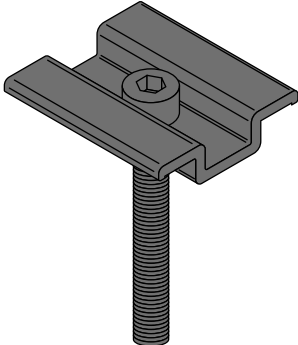
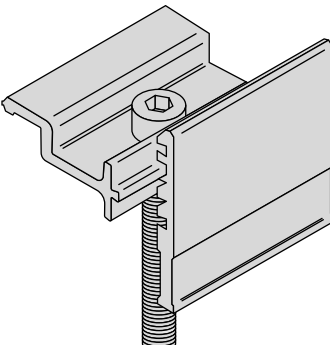
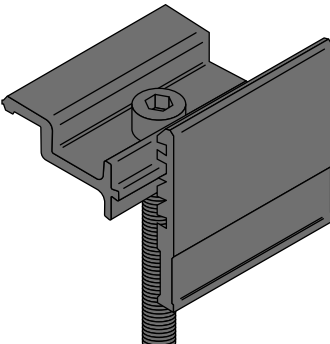
NB: For 10°.L and 0°.KP ballast 4 Stücke must be inserted under each structure

CABLOWIND

| | CABLOWIND 95 CM | CABLOWIND 160 CM | CABLOWIND 185 CM | BRACKET |
|-----------------|---|---|--|---|
| DETAIL |  |  |  |  |
| PRODUCT | Cablowind Channel 12 x 9 x 95 cm | Cablowind Channel 12 x 9 x 160 cm | Cablowind Channel 12 x 9 x 185 cm | Cablowind universal bracket |
| CODE | CW.CABLOWIND.95 | CW.CABLOWIND.165 | CW.CABLOWIND.185 | KITSTAFFA.CW |
| WEIGHT | 17 Kg | 29 Kg | 34 Kg | 1 Kg |
| PALLET QUANTITY | 30 Pieces | 18 Pieces | 18 Pieces | ----- |
| PALLET WEIGHT | 510 Kg | 522 Kg | 612 Kg | ----- |

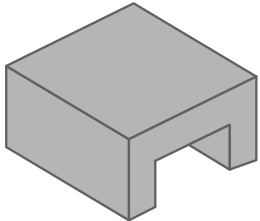
C. ACCESSORIES

FIXING KIT

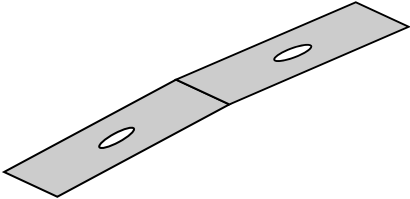
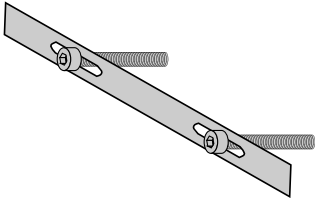
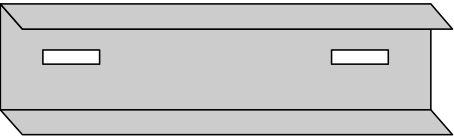
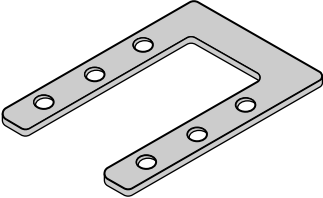

| DESCRIPTION OF THE ARTICLE | DETAIL | ARTICLE |
|--|---|--------------|
| Kit aluminium central clamp, stainless screw 8 x 50 (10 ps) |  | K23900/U.50 |
| Kit aluminium central clamp, stainless screw 8 x 55 (10 ps) | | K23900/U.55 |
| Kit in black aluminium central clamp, stainless screw 8 x 50 (10 ps) |  | K23900/UN.50 |
| Kit in black aluminium central clamp, stainless screw 8 x 55 (10 ps) | | K23900/UN.55 |
| Universal aluminium terminal clamp, stainless screw 8 x 50 (10 ps) |  | K23920/U.50 |
| Universal aluminium terminal clamp, stainless screw 8 x 55 (10 ps) | | K23920/U.55 |
| Universal black aluminium terminal clamp, stainless screw 8 x 50 (10 ps) |  | K23920/UN.50 |
| Universal black aluminium terminal clamp, stainless screw 8 x 55 (10 ps) | | K23920/UN.55 |

C. ACCESSORIES

ADDITIONAL WEIGHTS

| DETAIL | DESCRIPTION OF THE ARTICLE | ARTICLE | PALLET QUANTITY | PALLET DIMENSIONS | PALLET WEIGHT |
|--|--|-----------|-----------------|---------------------------|---------------|
|  | Additional weight (30.5x30x17) 30 kg | 23030.CRP | 18 Pieces | 90 cm x 98 cm h= 50 cm | 540 Kg |

BALLAST ACCESSORIES

| DESCRIPTION OF THE ARTICLE | DETAIL | ARTICLE |
|--|--|---------|
| Universal East-West junction plate for ballast |  | 23815 |
| Universal junction plate |  | K23804 |
| Junction plate for Sail System 11° |  | K23011 |
| Junction plate for Sail System 5° | | K23005 |
| Earthing plate (10 ps) |  | PMT2300 |
| Polyurethane foam 750 ml |  | SCH750 |

NOTES

A large grid of horizontal dashed lines for taking notes, consisting of 25 rows and 25 columns.

NOTES

A large grid of horizontal lines for taking notes, consisting of 20 columns and 30 rows of dashed lines.

NOTES

A large grid of horizontal dashed lines for taking notes, consisting of 25 rows and approximately 25 columns.



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