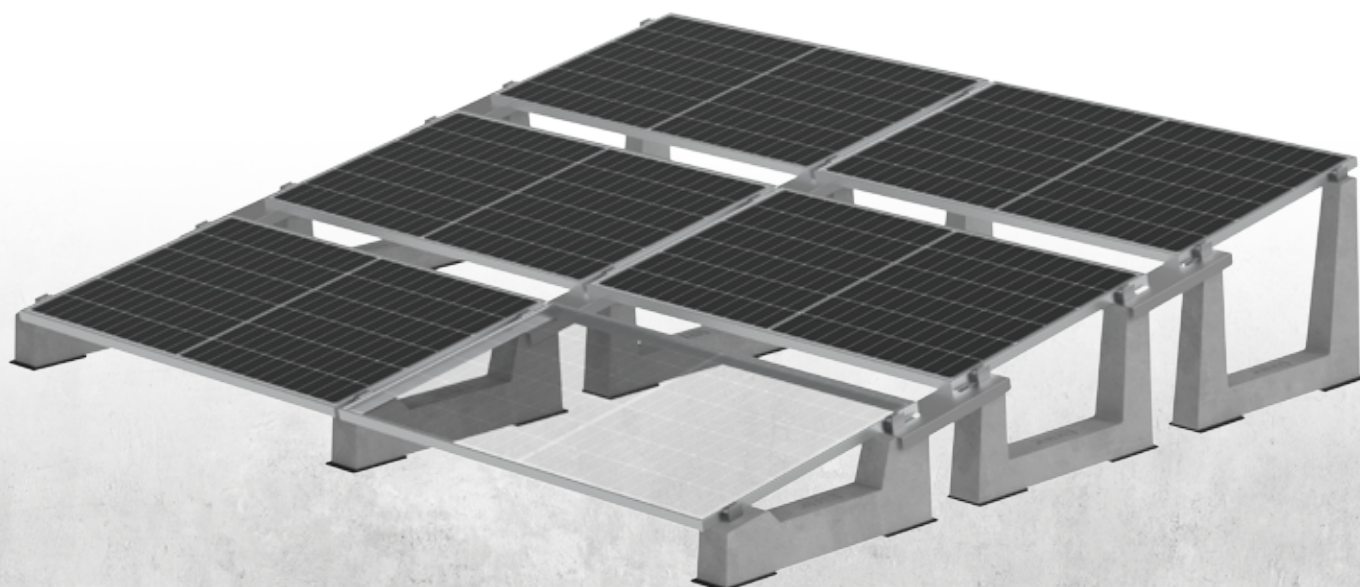


# Technical Sheet

## Sail 10°

ART.23010/.2/.3



# SAIL 10°

ART. 23010/.2/.3

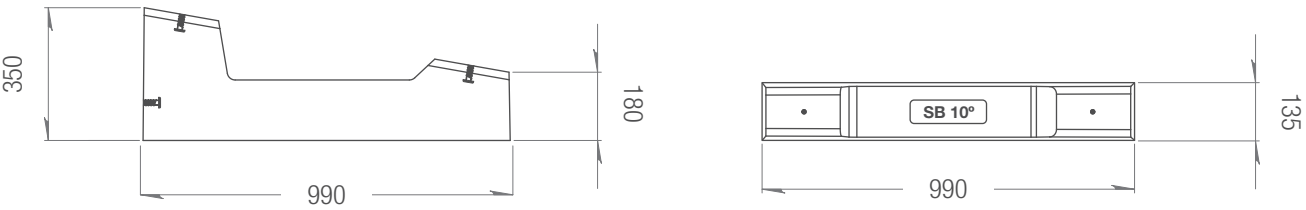


The Sail system with a 10° tilt angle allows the installation of three consecutive rows of photovoltaic panels, with adjustable spacing between modules to fully optimize the available space. The ballasts can also be used in single-row configurations, ensuring quick and easy management of roof obstacles.

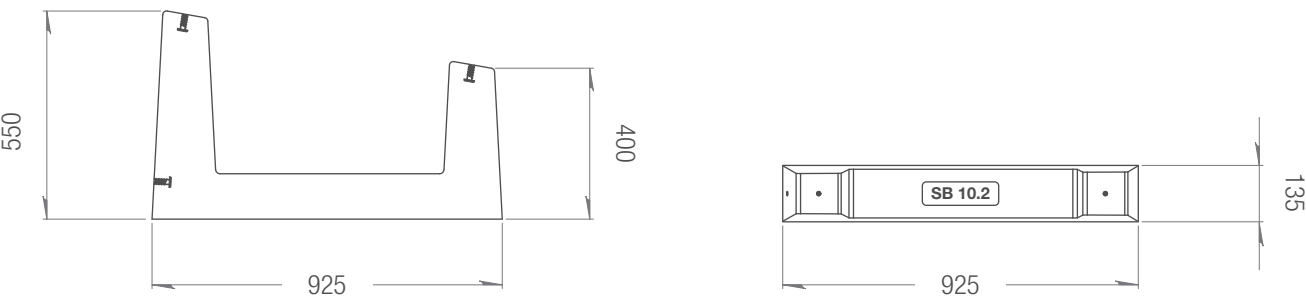
Tilt angle	10°
Module positioning	Horizontal - Short side / Vertical - Long side
Compatible accessories	Sheathing (KGN23115), Universal clamps (K23900/U.50, K23920/U.50), PowerClamp (K23900/PWC.50, 23920/PWC), Junction plate for Sail system (23811), Junction plate (K23804), U-Block (23015.CRP - 23030.CRP), Cablowind (CW.CABLOWIND.95 - CW.CABLOWIND.160 - CW.CABLOWIND.185), No-Flex (K23712)

BALLAST ART. 23010			
Ballast weight	60 kg	Pallet dimensions	1000x720x682h mm
Quantity per pallet	10 pieces	Pallet weight	612 kg
BALLAST ART. 23010.2			
Ballast weight	60 kg	Pallet dimensions	1100x570x729h mm
Quantity per pallet	8 pieces	Pallet weight	494 kg
BALLAST ART. 23010.3			
Ballast weight	65 kg	Pallet dimensions	1125x775x668h mm
Quantity per pallet	8 pieces	Pallet weight	537 kg

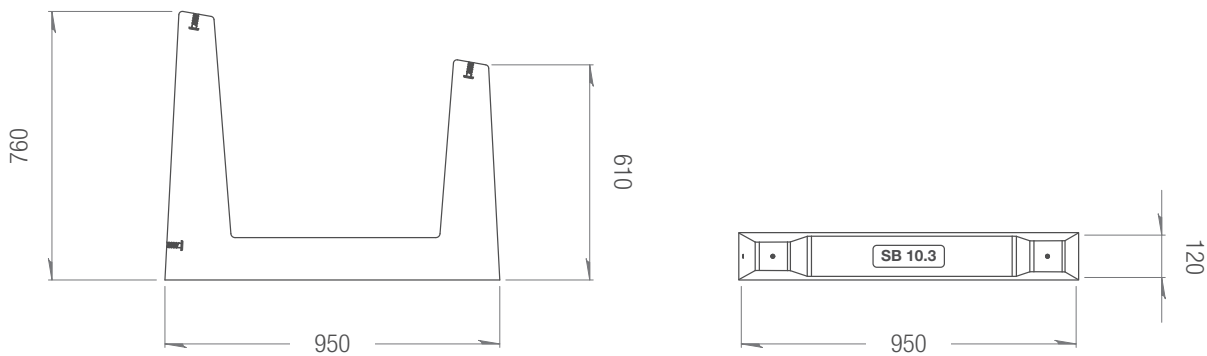
### BALLAST 23010 DIMENSIONS



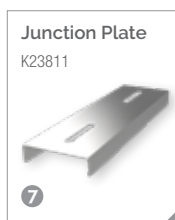
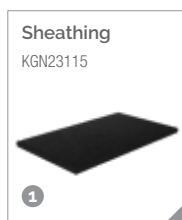
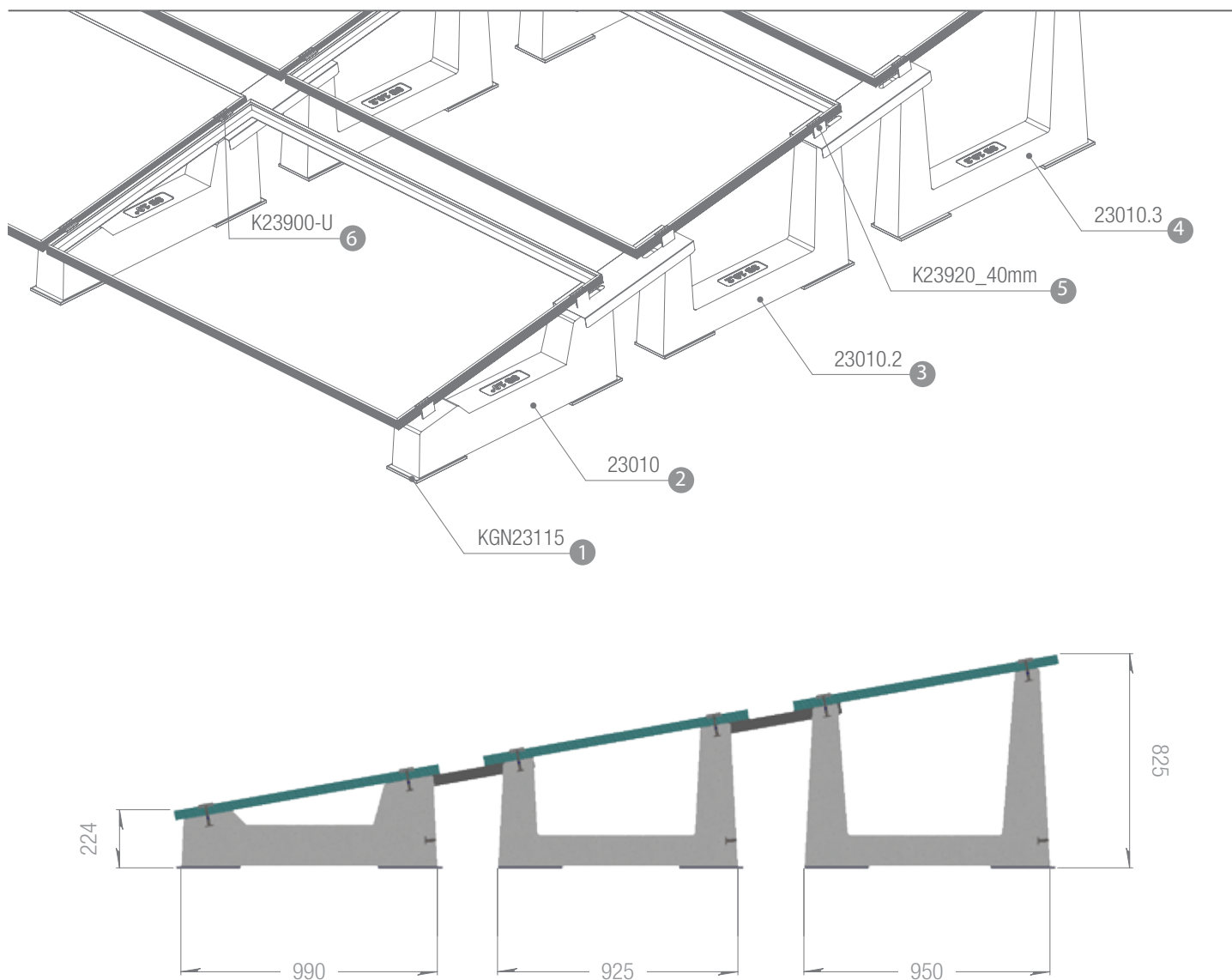
### BALLAST 23010.2 DIMENSIONS



### BALLAST 23010.3 DIMENSIONS



## HORIZONTAL MODULE INSTALLATION – Short Side



### INFO

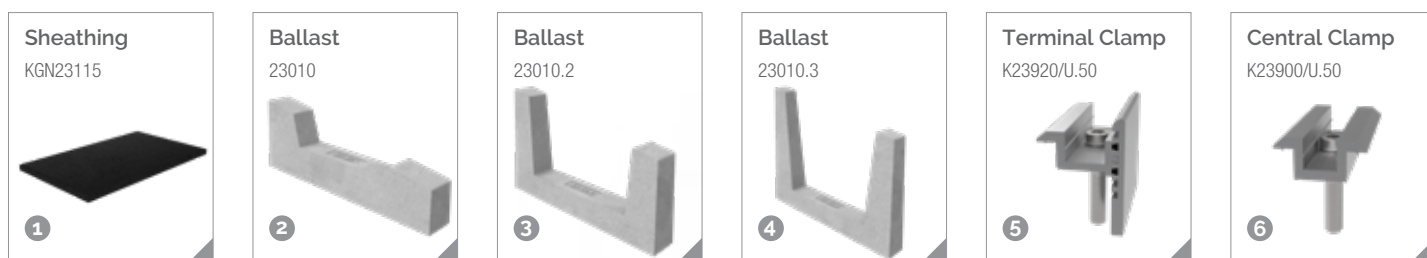
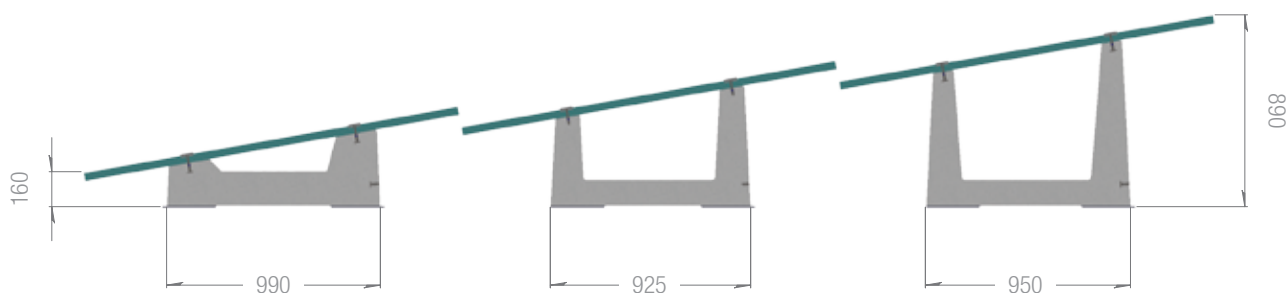
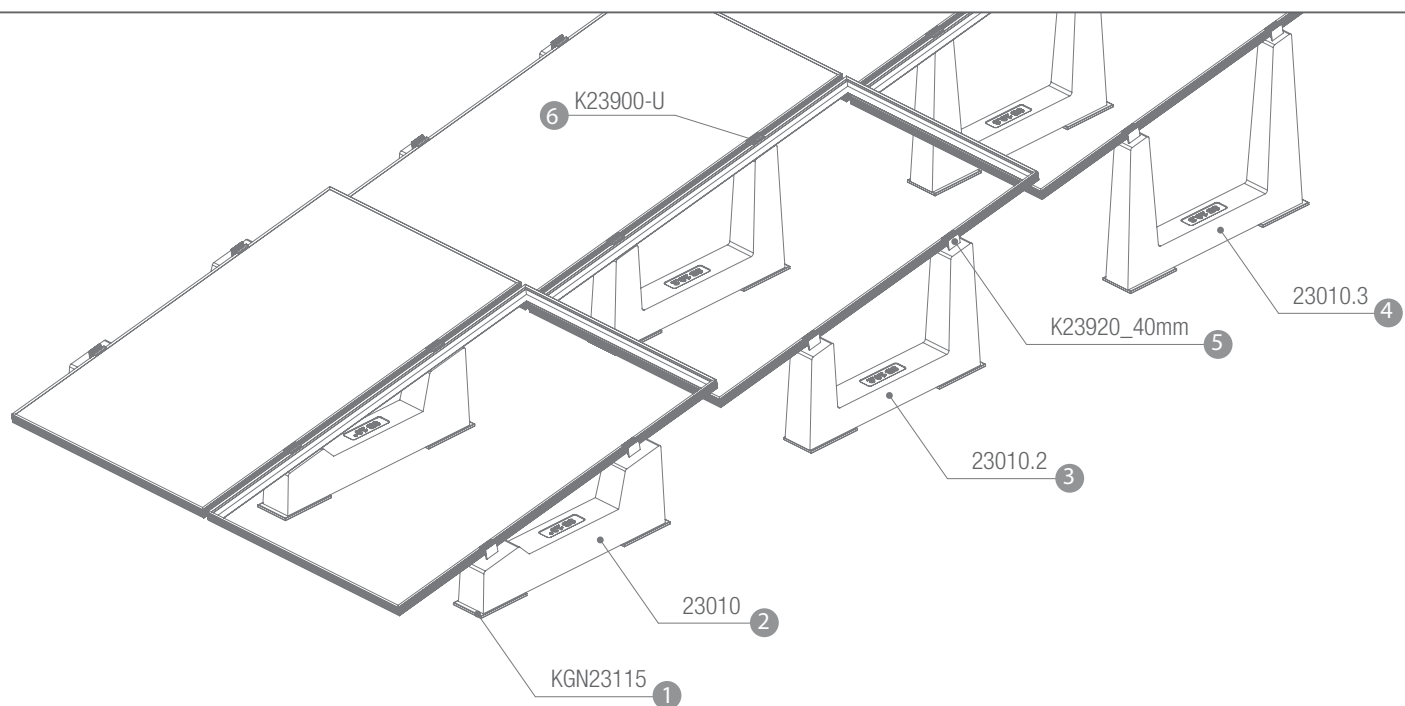
The distance between the rows is indicative and not binding; it may vary depending on the project.

The measurements are based on the use of a panel with dimensions of 1722mm x 1134mm x 35mm. They vary depending on the size of the panel used.

Follow Sun Ballast®'s assembly instructions

The dimensions shown in the figure are all expressed in millimeters.

## VERTICAL MODULE INSTALLATION – Long Side



### INFO

The distance between the rows is indicative and not binding; it may vary depending on the project.

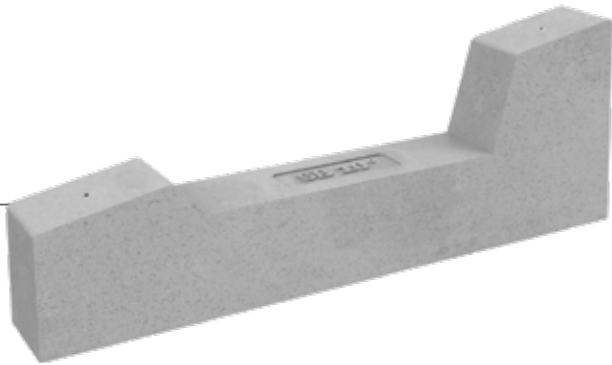
The measurements are based on the use of a panel with dimensions of 1722mm x 1134mm x 35mm. They vary depending on the size of the panel used.

Follow Sun Ballast®'s assembly instructions.

The dimensions shown in the figure are all expressed in millimeters.

# BALLAST 10°

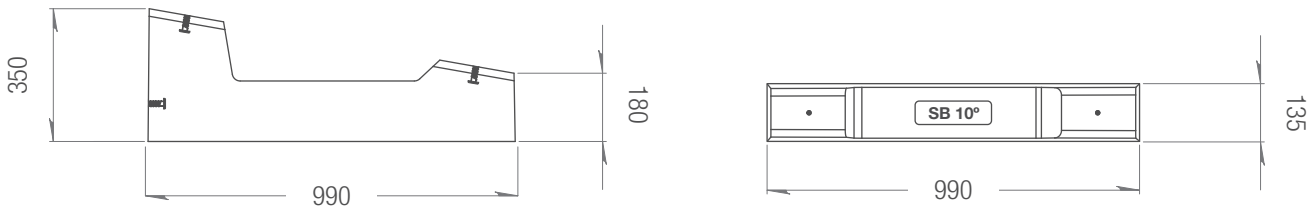
ART. 23010



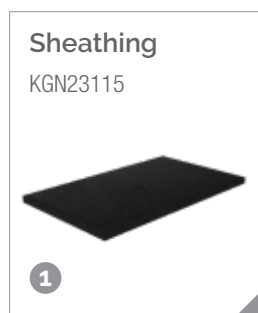
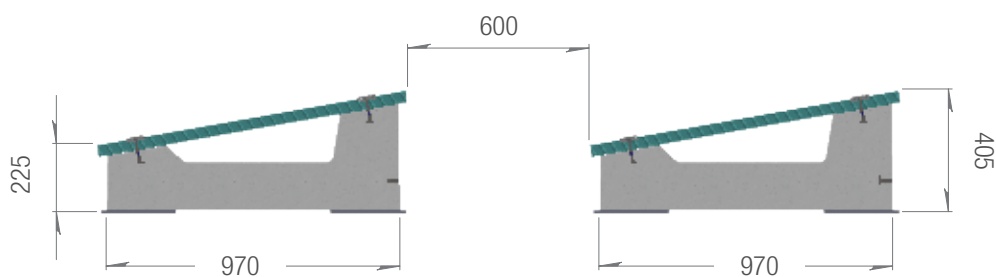
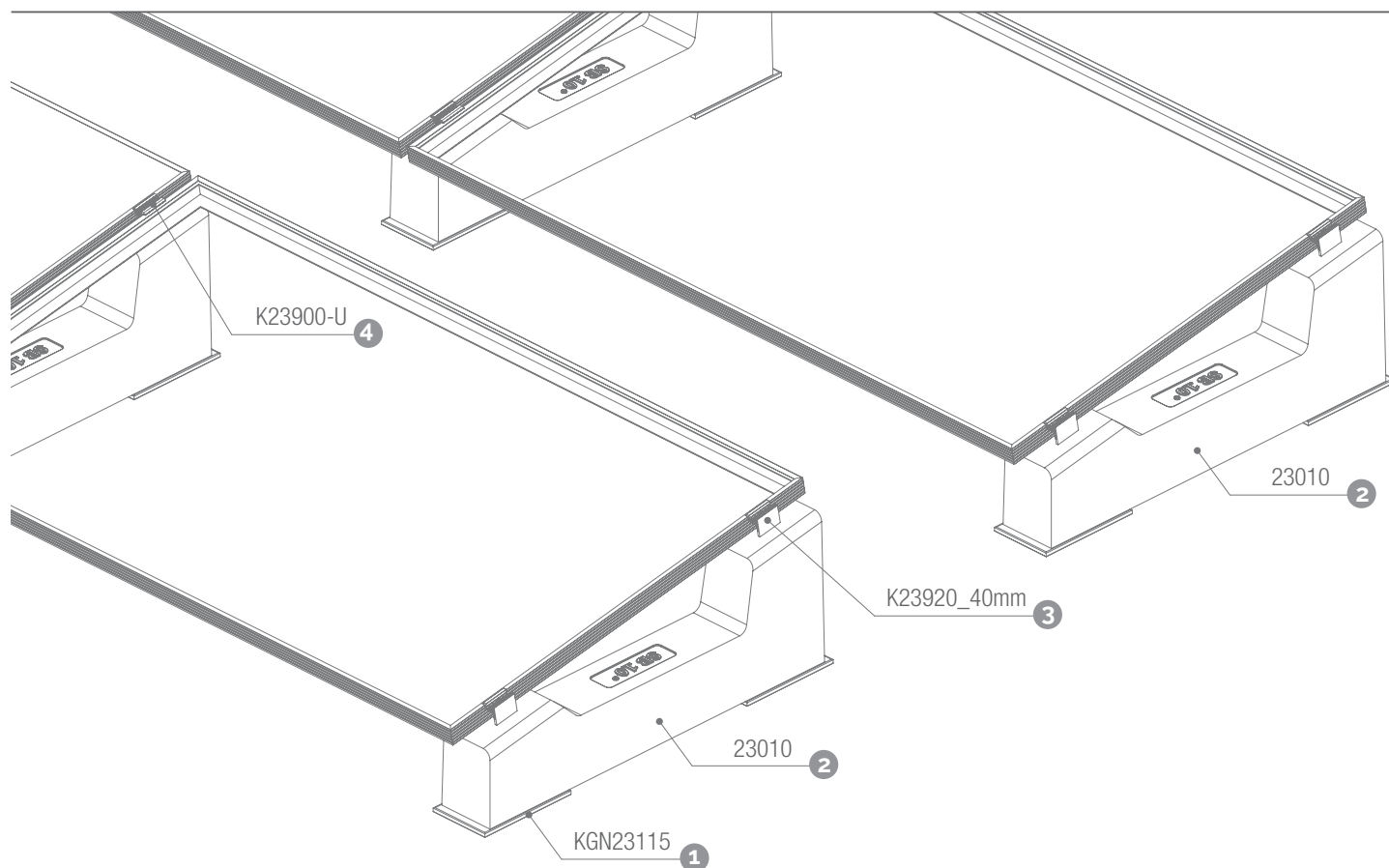
The Single-Row system offers a simple and highly versatile solution: available in a wide range of tilt angles from 0° to 30°, the ballasts allow for mounting of the panels vertically, horizontally, or with an East-West orientation. The mounting system enables flexible modulation of the distance between rows, ensuring an easy and fast installation, even in the presence of roof obstacles.

Tilt angle	10°
Module positioning	Horizontal - Short side / Vertical - Long side
Ballast weight	60 kg
Quantity per pallet	10 pieces
Pallet dimensions	1000x720x682h mm
Pallet weight	612 kg
Compatible accessories	Sheathing (KGN23115), Universal clamps (K23900/U.50, K23920/U.50), PowerClamp (K23900/PWC.50, 23920/PWC), Junction plate (K23804), U-Block (23015.CRP - 23030.CRP), No-Flex (K23712) Cablowind (CW.CABLOWIND.95 - CW.CABLOWIND.160 - CW.CABLOWIND.185)

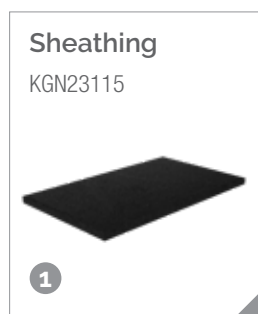
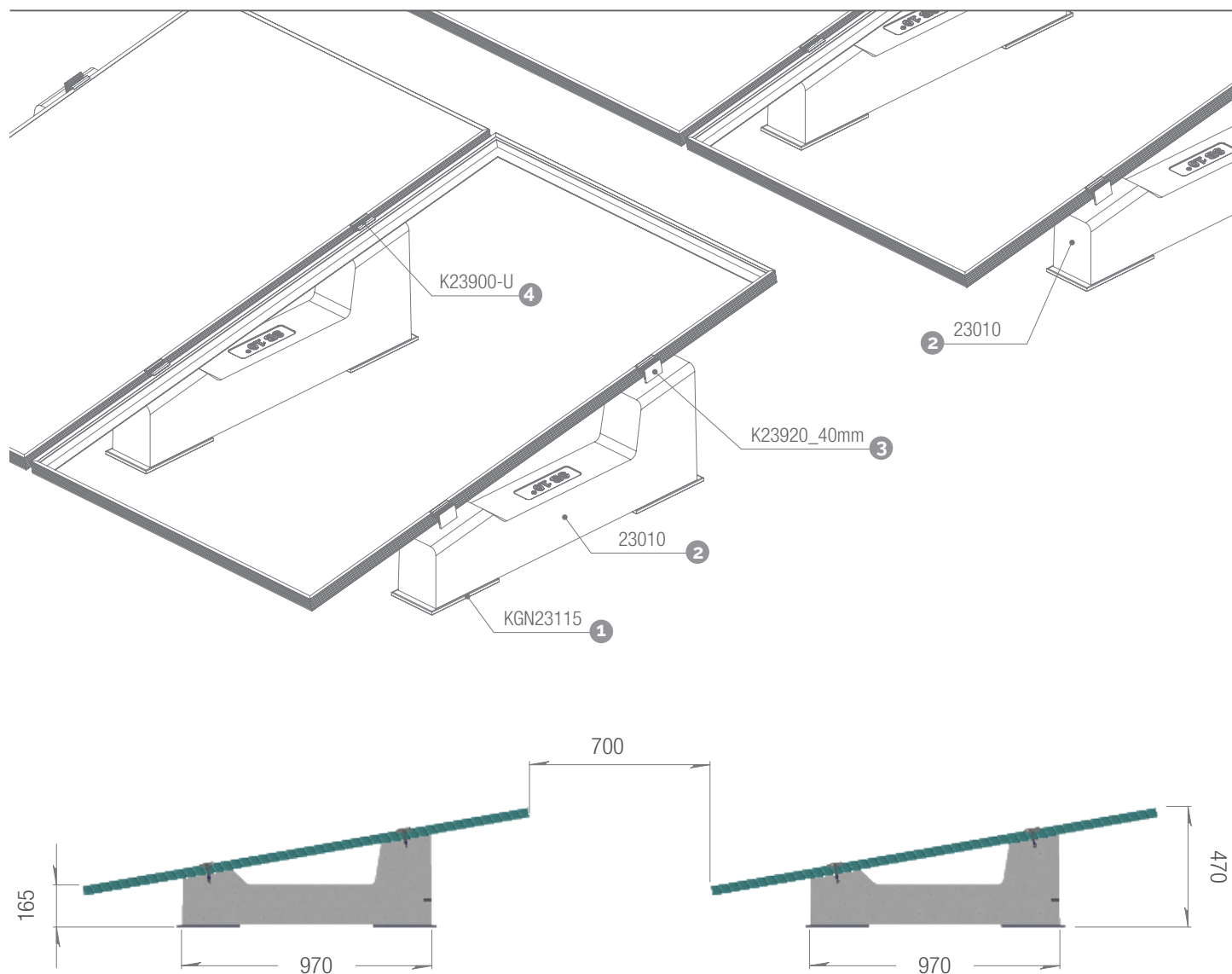
## BALLAST DIMENSIONS



## HORIZONTAL MODULE INSTALLATION - Short Side



## VERTICAL MODULE INSTALLATION - Long Side



### INFO

The distance between the rows is indicative and not binding; it may vary depending on the project.

The measurements are based on the use of a panel with dimensions of 1722mm x 1134mm x 35mm. They vary depending on the size of the panel used.

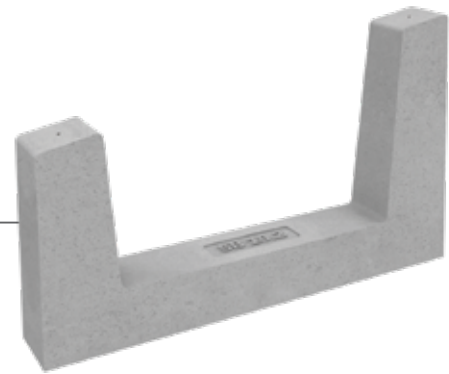
Follow Sun Ballast®'s assembly instructions.

The dimensions shown in the figure are all expressed in millimeters.



# BALLAST 10.2°

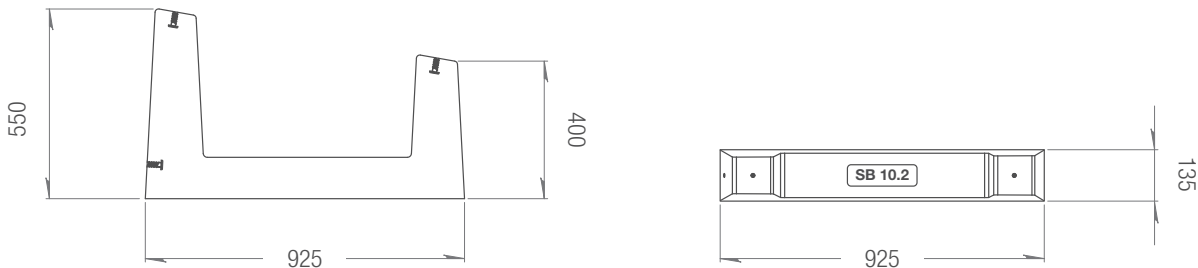
ART. 23010.2



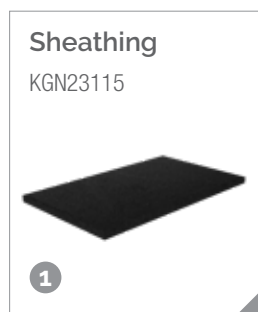
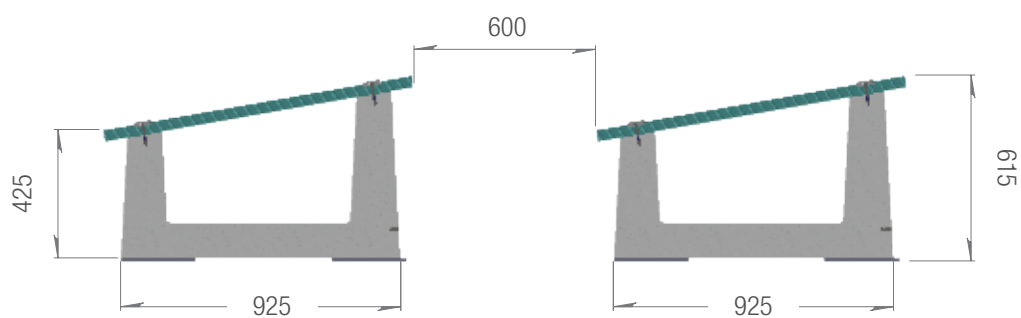
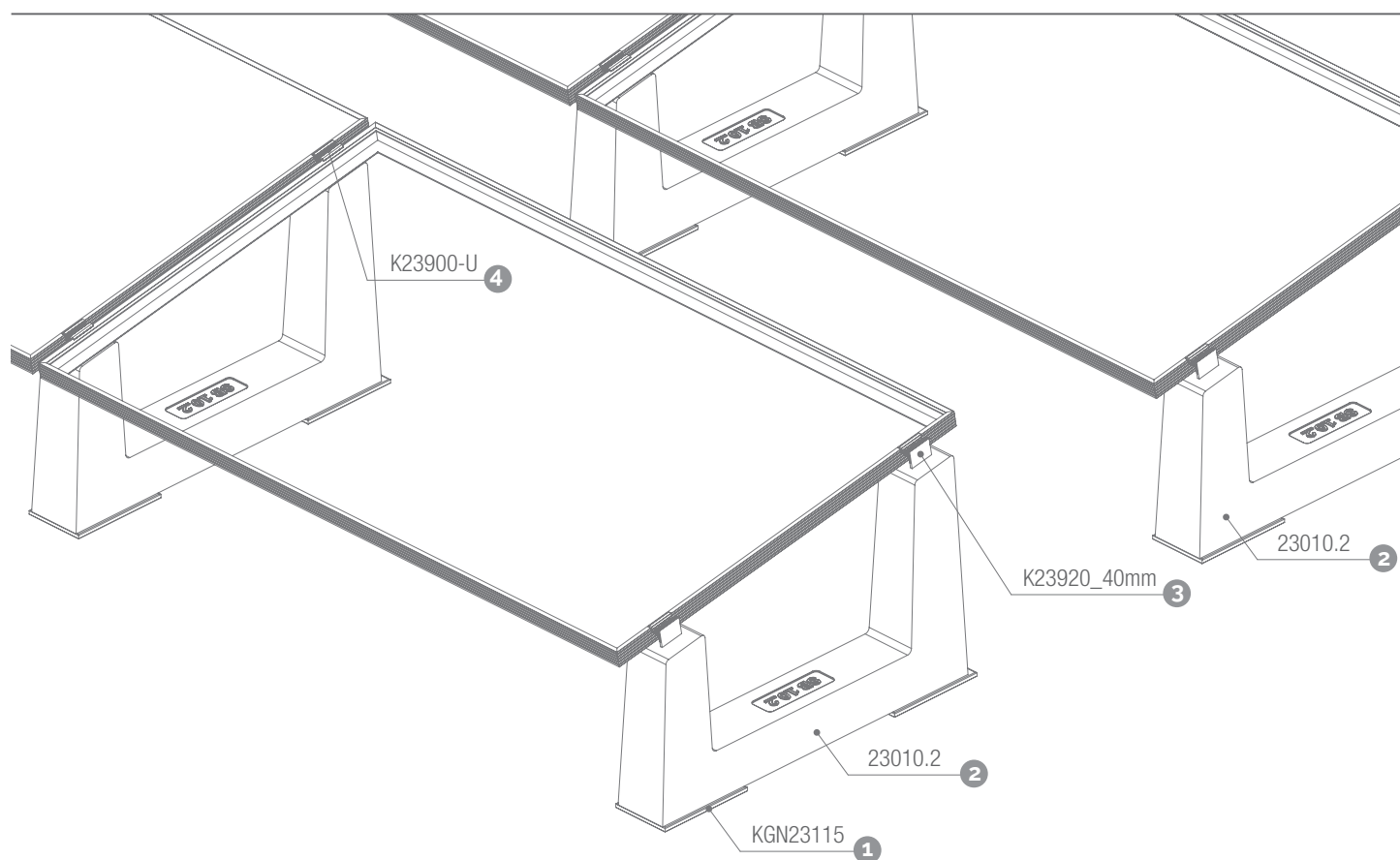
The Single-Row system offers a simple and highly versatile solution: available in a wide range of tilt angles from 0° to 30°, the ballasts allow for mounting of the panels vertically, horizontally, or with an East-West orientation. The mounting system enables flexible modulation of the distance between rows, ensuring an easy and fast installation, even in the presence of roof obstacles.

Tilt angle	10°
Module positioning	Horizontal - Short side / Vertical - Long side
Ballast weight	60 kg
Quantity per pallet	8 pieces
Pallet dimensions	1100x570x729h mm
Pallet weight	494 kg
Compatible accessories	Sheathing (KGN23115), Universal clamps (K23900/U.50, K23920/U.50), PowerClamp (K23900/PWC.50, 23920/PWC), Junction plate (K23804), U-Block (23015.CRP - 23030.CRP), No-Flex (K23712) Cablwind (CW.CABLOWIND.95 - CW.CABLOWIND.160 - CW.CABLOWIND.185)

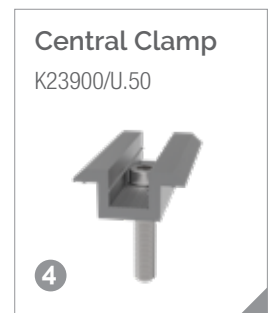
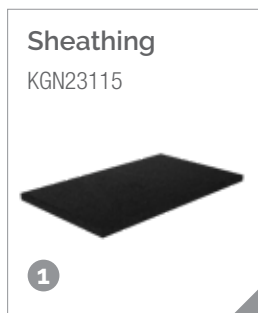
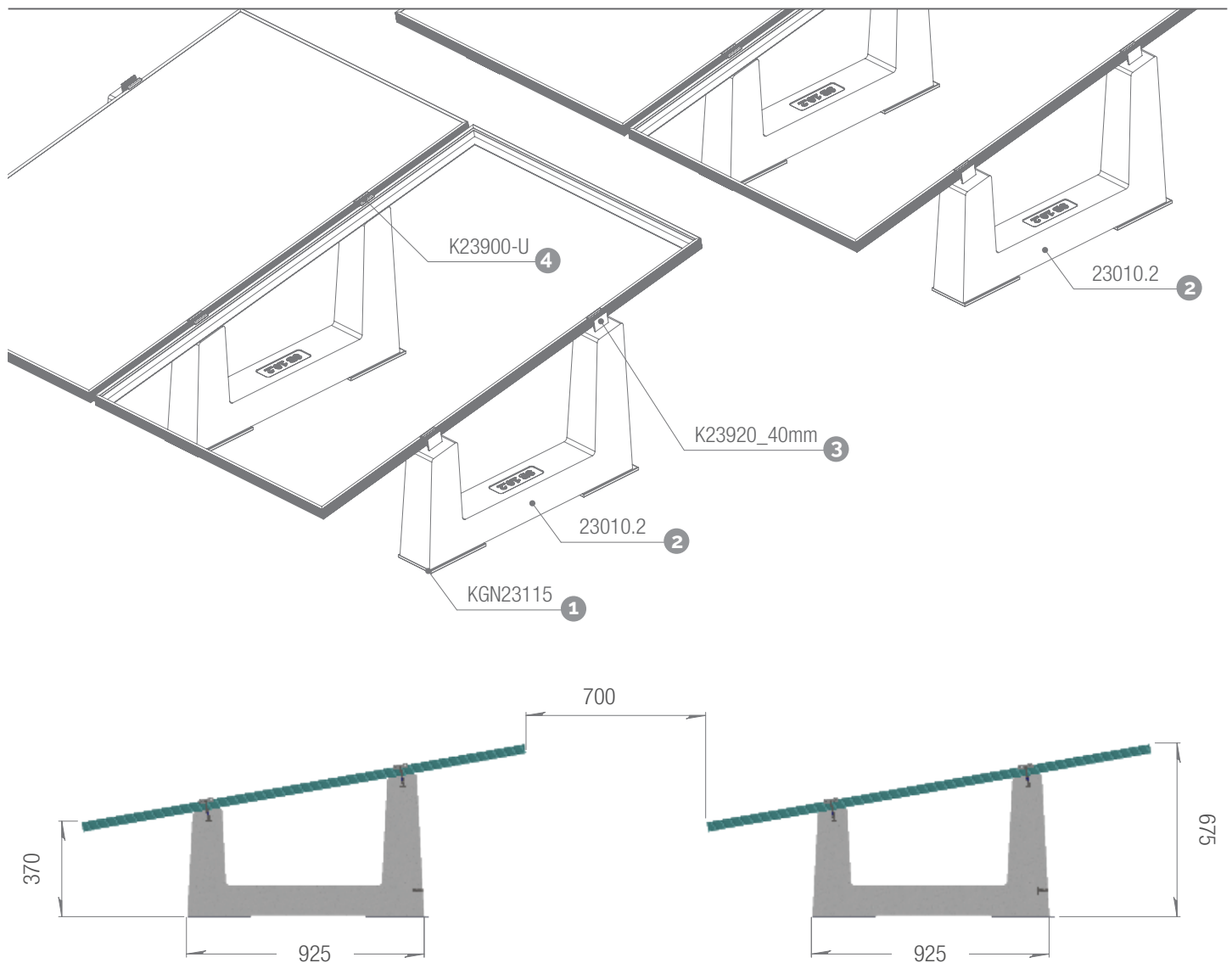
## BALLAST DIMENSIONS



## HORIZONTAL MODULE INSTALLATION - Short Side



## VERTICAL MODULE INSTALLATION - Long Side



### INFO

The distance between the rows is indicative and not binding; it may vary depending on the project.

The measurements are based on the use of a panel with dimensions of 1722mm x 1134mm x 35mm. They vary depending on the size of the panel used.

Follow Sun Ballast®'s assembly instructions.

The dimensions shown in the figure are all expressed in millimeters.

# BALLAST 10.3°

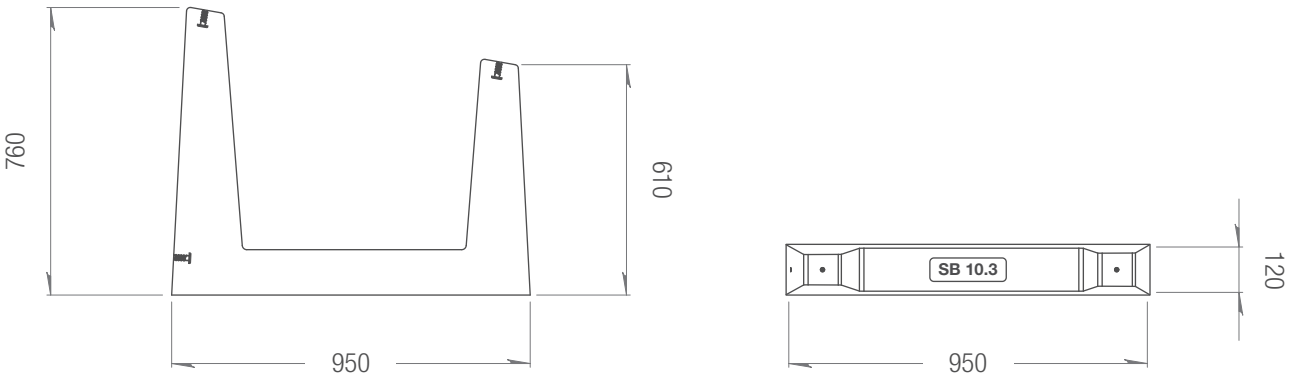
ART. 23010.3



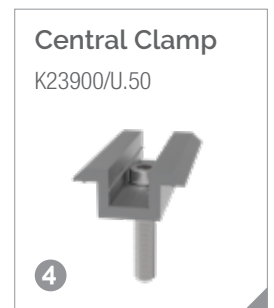
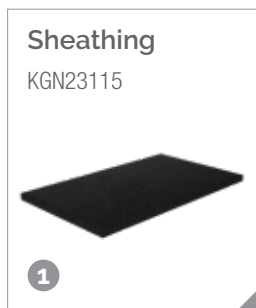
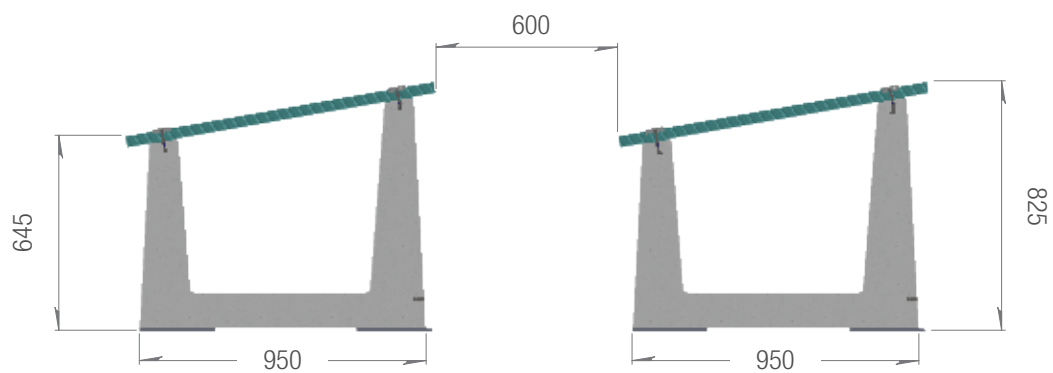
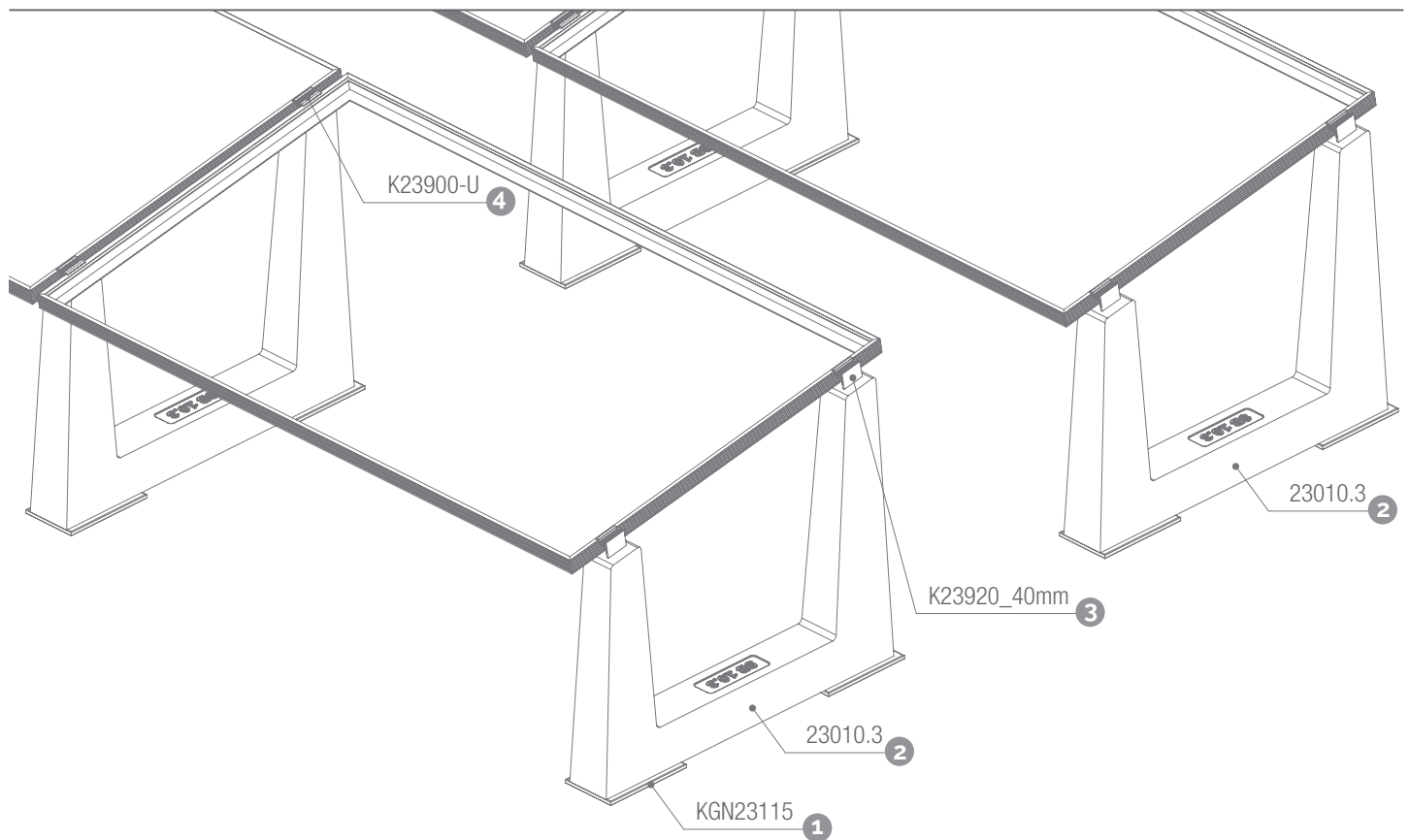
The Single-Row system offers a simple and highly versatile solution: available in a wide range of tilt angles from 0° to 30°, the ballasts allow for mounting of the panels vertically, horizontally, or with an East-West orientation. The mounting system enables flexible modulation of the distance between rows, ensuring an easy and fast installation, even in the presence of roof obstacles.

Tilt angle	10°
Module positioning	Horizontal - Short side / Vertical - Long side
Ballast weight	65 kg
Quantity per pallet	8 pieces
Pallet dimensions	1125x775x668h mm
Pallet weight	537 kg
Compatible accessories	Sheathing (KGN23115), Universal clamps (K23900/U.50, K23920/U.50), PowerClamp (K23900/PWC.50, 23920/PWC), Junction plate (K23804), U-Block (23015.CRP - 23030.CRP), No-Flex (K23712) Cablowind (CW.CABLOWIND.95 - CW.CABLOWIND.160 - CW.CABLOWIND.185)

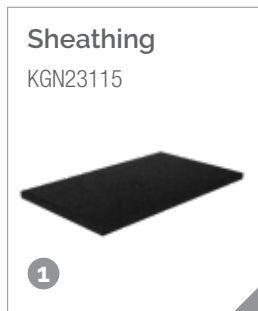
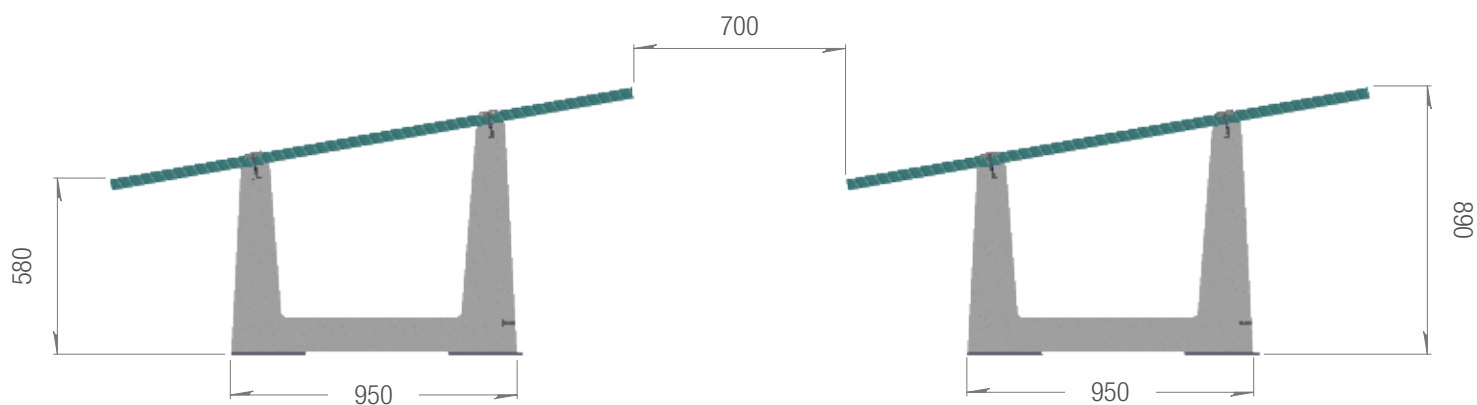
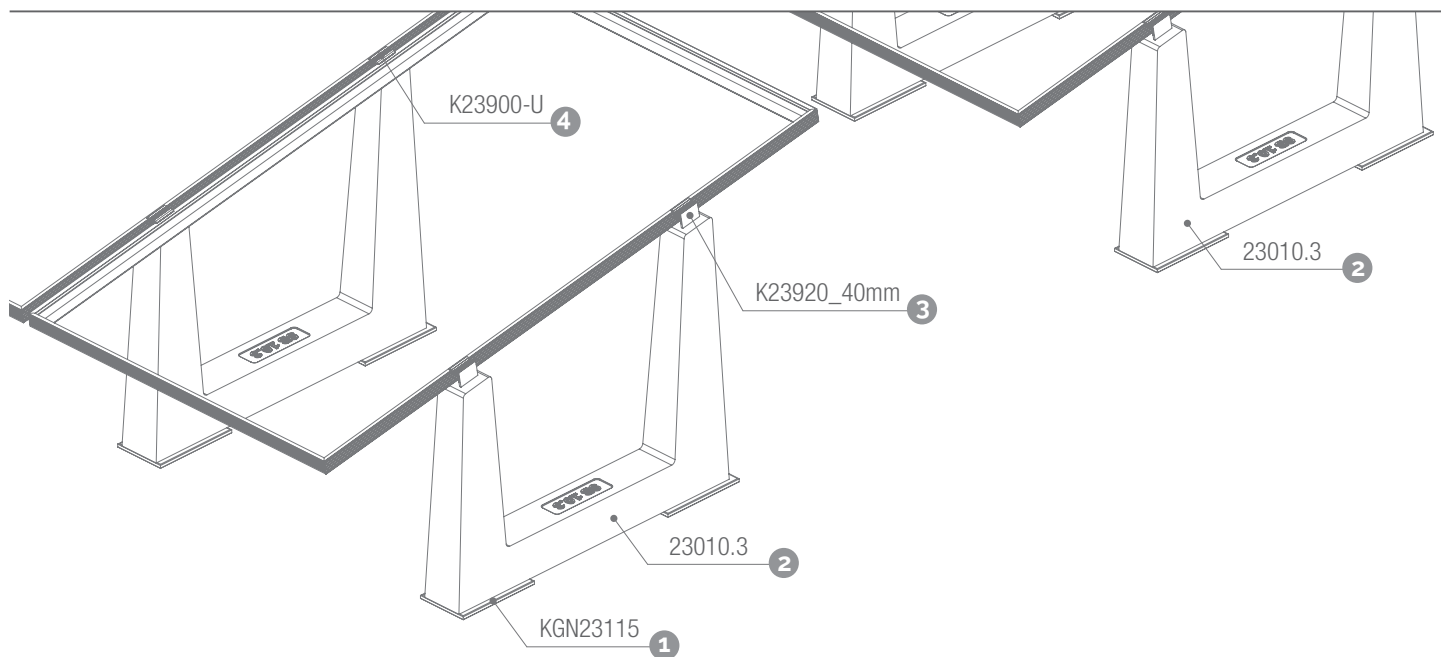
## BALLAST DIMENSIONS



## HORIZONTAL MODULE INSTALLATION - Short Side



## VERTICAL MODULE INSTALLATION - Long Side



### INFO

The distance between the rows is indicative and not binding; it may vary depending on the project.

The measurements are based on the use of a panel with dimensions of 1722mm x 1134mm x 35mm. They vary depending on the size of the panel used.

Follow Sun Ballast®'s assembly instructions.

The dimensions shown in the figure are all expressed in millimeters.

## TECHNICAL CHARACTERISTICS

### Description:

Precast unreinforced concrete ballast.  
(Inside, there is an iron rod to increase mechanical flexibility)

- Exposure class: XC4;
- Strength class: C32/40;
- Minimum cement content: 340 kg/m<sup>3</sup>;
- Fire resistance class: Class 0 (Italian class) A1 (European class with ref. UNI EN 13501-1:2019);
- Maximum H<sub>2</sub>O penetration depth under pressure 500 kPa: 15 mm;
- Maximum H<sub>2</sub>O penetration depth under pressure 500 kPa: 15 mm;
- Weight tolerance:  $\pm 5\%$ ;
- Measurement:  $\pm 5$  mm;
- Determination of pullout force of M8 threaded insert embedded in CLS element by direct pulling of M8 threaded bar screwed into it.

Results of the tensile test at 15 KN (1530 kg):

No slipping of the threaded insert;

Fracture of the threaded bar.

BASIC S.R.L Benefit Corporation, in the person of its legal representative, declares that production complies with UNI EN 206 and UNI 11104 standards, instructions, and procedures of the quality management system by UNI EN ISO 9001:2015 with TUV certification.

Any modification made to the product referred to in this declaration without the manufacturer's authorization voids this declaration of technical requirements. The technical characteristics of the product are listed below.





**Made to last**  
Patented systems

## CONTACTS

---

### INFORMATION AND FIRST CONTACT

[info@sunballast.com](mailto:info@sunballast.com)

---

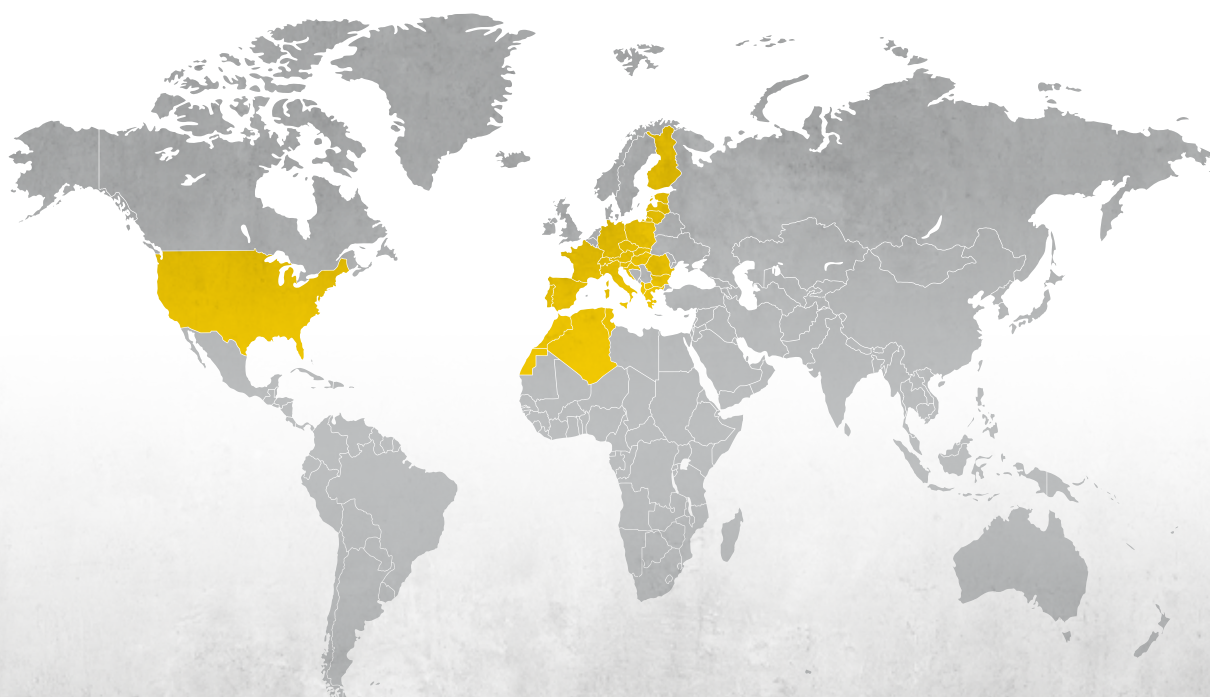
### COMMERCIAL CONSULTING

[commerciale@sunballast.com](mailto:commerciale@sunballast.com)

---

### TECHNICAL SUPPORT

[tecnico@sunballast.com](mailto:tecnico@sunballast.com)



# MADE TO LAST.

[www.sunballast.com](http://www.sunballast.com)