
























SINCE 2012  
IDEAL SOLAR  
MOUNTING SYSTEM  
FOR FLAT ROOFS

# TECHNICAL DATA SHEETS









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# CONNECT 5°

ART. 23005.CF/CR/CRT



The perfect balance between strength and lightness: the Connect system links modules and ballasts into a single reticular structure, reducing roof loads and transportation costs, while ensuring perfectly balanced weight distribution.

**Tilt angle** 5°

**Module positioning** Horizontal - Short side

**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), No-Flex (K23712)

## BALLAST ART. 23005.CF

<b>Ballast weight</b>	20 kg	<b>Pallet dimensions</b>	900x740x656h mm
<b>Quantity per pallet</b>	32 pieces	<b>Pallet weight</b>	654 kg

## BALLAST ART. 23005.CR

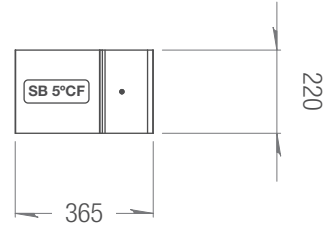
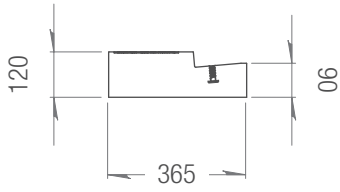
<b>Ballast weight</b>	16 kg	<b>Pallet dimensions</b>	1210x690x428h mm
<b>Quantity per pallet</b>	26 pieces	<b>Pallet weight</b>	431 kg

## BALLAST ART. 23005.CRT

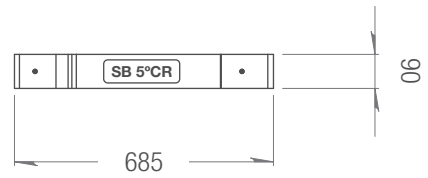
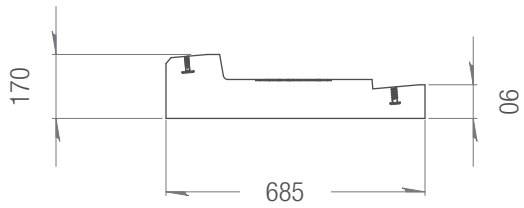
<b>Ballast weight</b>	35 kg	<b>Pallet dimensions</b>	1150x890x493h mm
<b>Quantity per pallet</b>	16 pieces	<b>Pallet weight</b>	576 kg

**BALLAST 23005.CF DIMENSIONS**

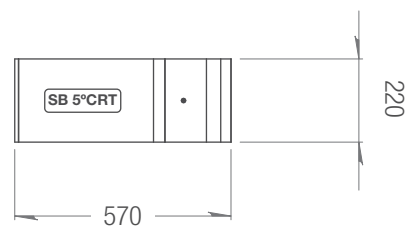
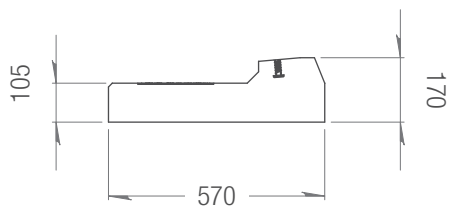
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**BALLAST 23005.CR DIMENSIONS**

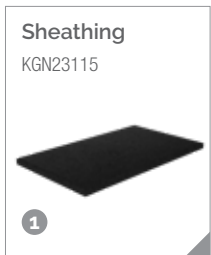
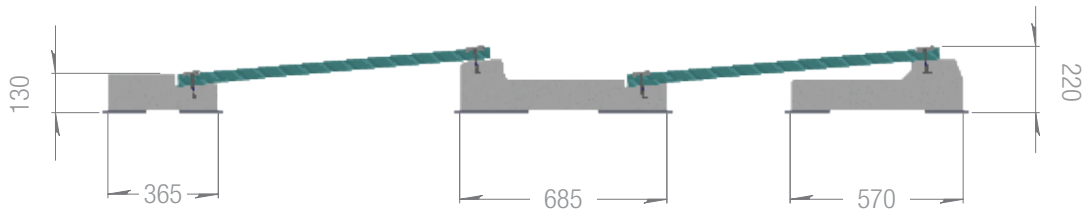
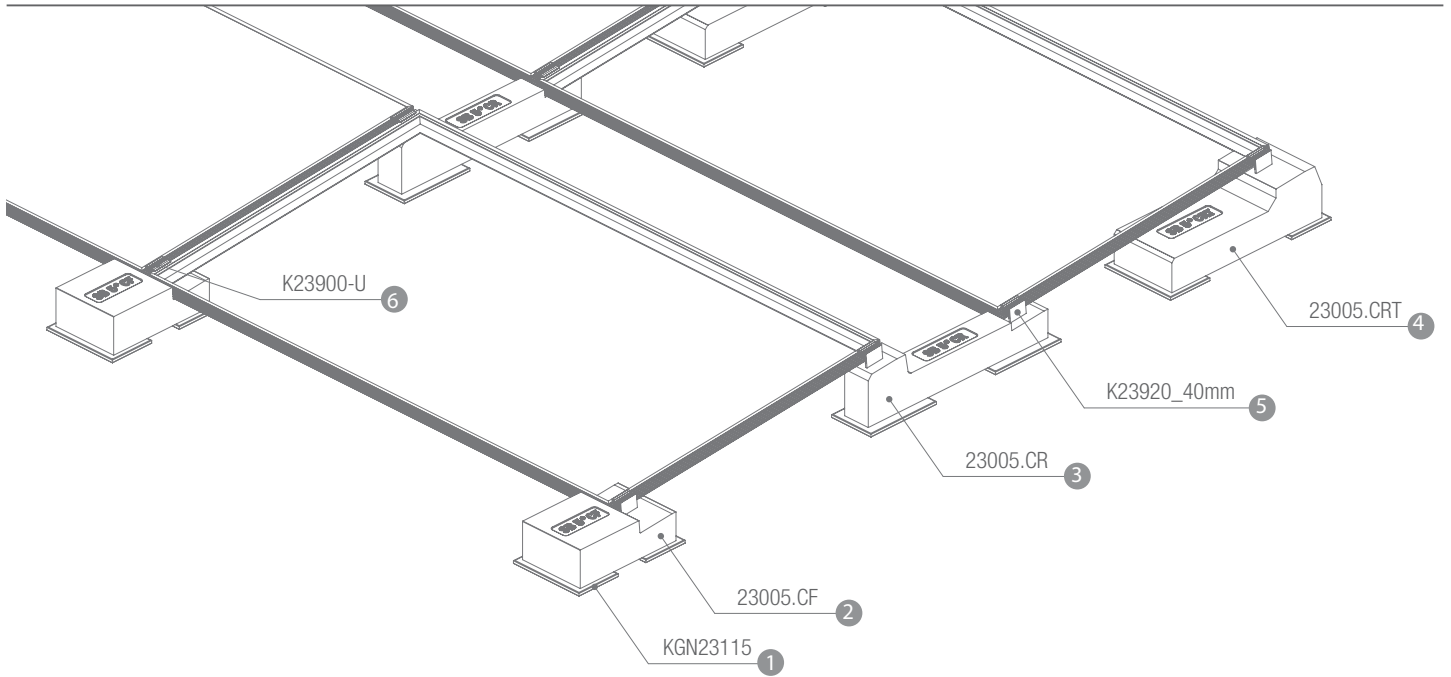
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**BALLAST 23005.CRT DIMENSIONS**

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## 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.

# SAIL CONNECT 5°

ART. 23005.CF/CRC/CRR/CRTT



The Sail Shaped Connect system by Sun Ballast is designed for the horizontal mounting of two consecutive rows of photovoltaic panels, connected through the typical reticular structure of the Connect system. It allows for optimised space on the roof by eliminating the gap between rows. The system also ensures high wind resistance, reduced roof loads, and maximum versatility in the presence of roof obstacles.

**Tilt angle** 5°

**Module positioning** Horizontal – Short Side

**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)

## BALLAST ART. 23005.CF

<b>Ballast weight</b>	20 kg	<b>Pallet dimensions</b>	900x740x656h mm
<b>Quantity per pallet</b>	32 pieces	<b>Pallet weight</b>	654 kg

## BALLAST ART. 23005.CRC

<b>Ballast weight</b>	20 kg	<b>Pallet dimensions</b>	1010x670x492h mm
<b>Quantity per pallet</b>	24 pieces	<b>Pallet weight</b>	493 kg

## BALLAST ART. 23005.CRR

<b>Ballast weight</b>	28 kg	<b>Pallet dimensions</b>	930x910x540h mm
<b>Quantity per pallet</b>	18 pieces	<b>Pallet weight</b>	517 kg

## BALLAST ART. 23005.CRTT

<b>Ballast weight</b>	33 kg	<b>Pallet dimensions</b>	1220x710x537h mm
<b>Quantity per pallet</b>	16 pieces	<b>Pallet weight</b>	543 kg

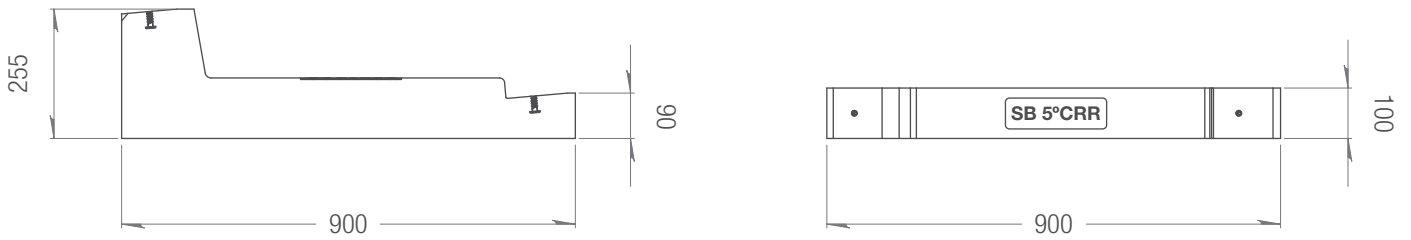
**BALLAST 23005.CF DIMENSIONS**



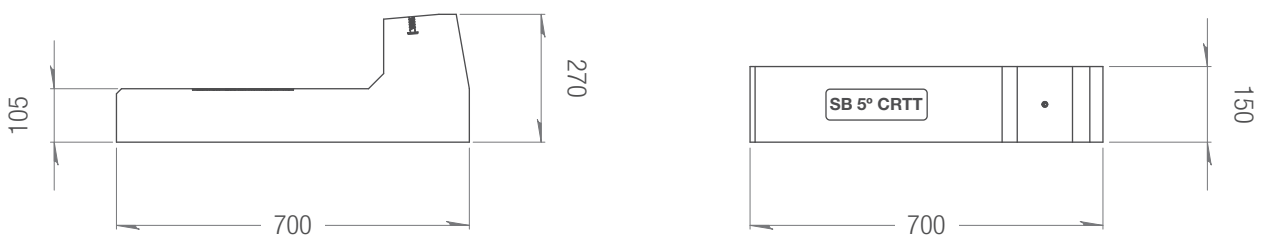
**BALLAST 23005.CRC DIMENSIONS**



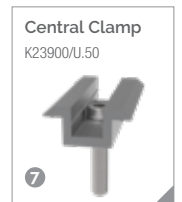
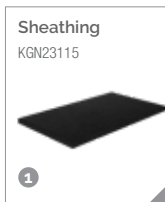
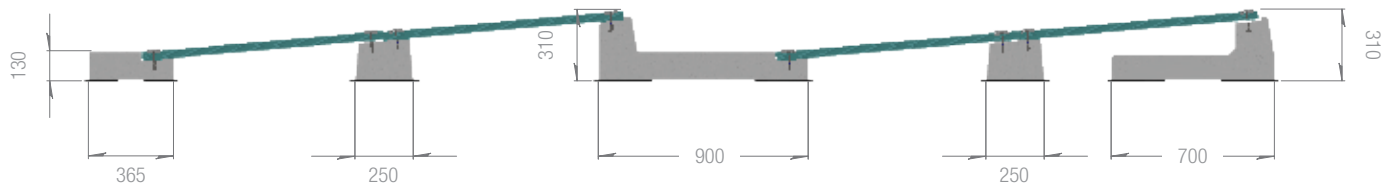
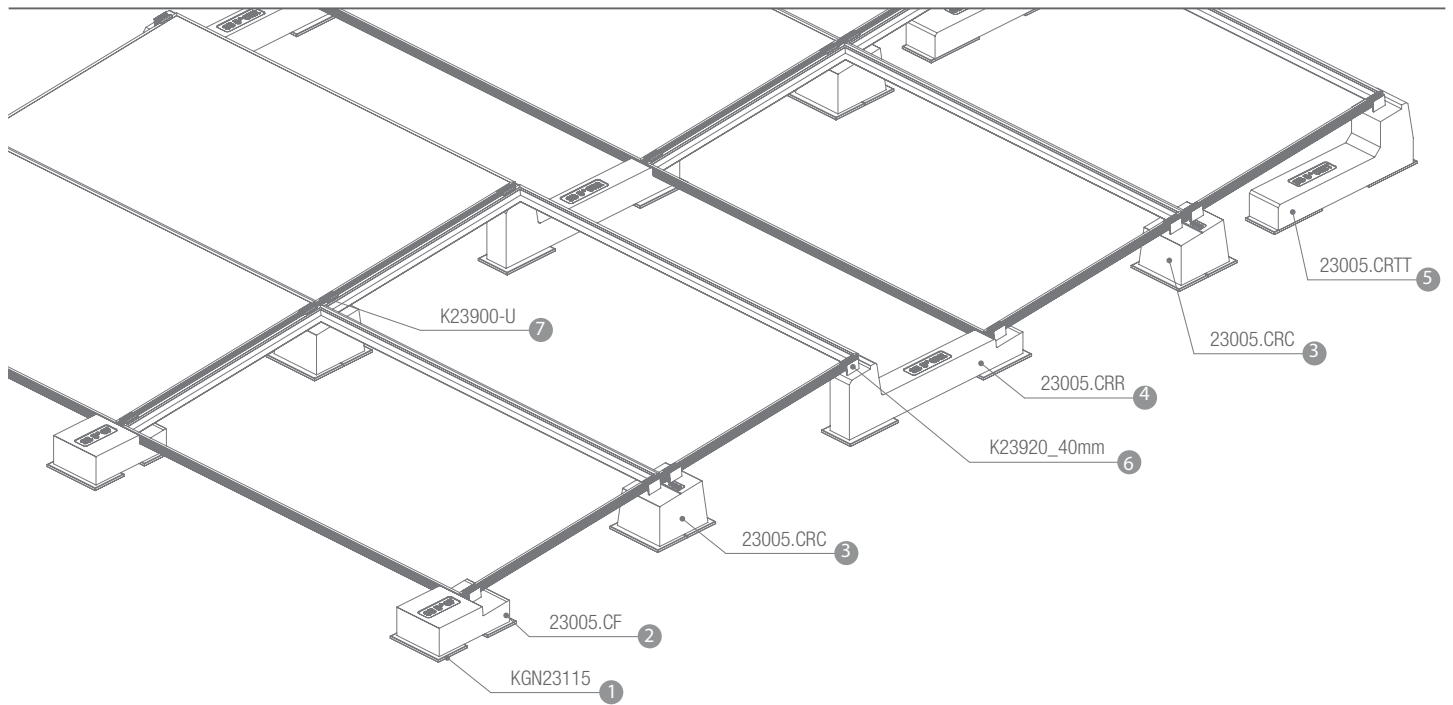
**BALLAST 23005.CRR DIMENSIONS**



**BALLAST 23005.CRTT 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.

# CONNECT 10°

ART. 23010.CF/CR/CRT



The perfect balance between strength and lightness: the Connect system links modules and ballasts into a single reticular structure, reducing roof loads and transportation costs, while ensuring perfectly balanced weight distribution.

**Tilt angle** 10°

**Module positioning** Horizontal - Short side

**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)

## BALLAST ART. 23010.CF

<b>Ballast weight</b>	20 kg	<b>Pallet dimensions</b>	1150x1020x392h mm
<b>Quantity per pallet</b>	28 pieces	<b>Pallet weight</b>	576 kg

## BALLAST ART. 23010.CR

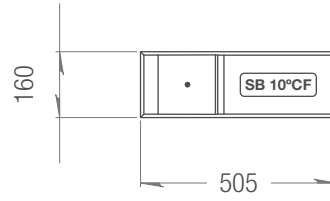
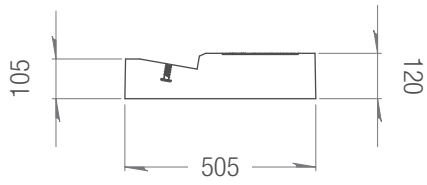
<b>Ballast weight</b>	22 kg	<b>Pallet dimensions</b>	1190x840x530h mm
<b>Quantity per pallet</b>	24 pieces	<b>Pallet weight</b>	543 kg

## BALLAST ART. 23010.CRT

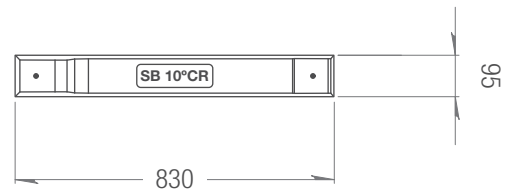
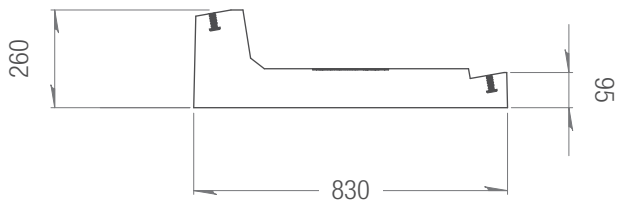
<b>Ballast weight</b>	33 kg	<b>Pallet dimensions</b>	1120x710x533h mm
<b>Quantity per pallet</b>	14 pieces	<b>Pallet weight</b>	476 kg

**BALLAST 23010.CF DIMENSIONS**

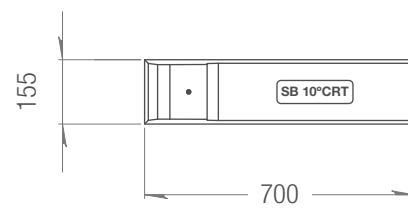
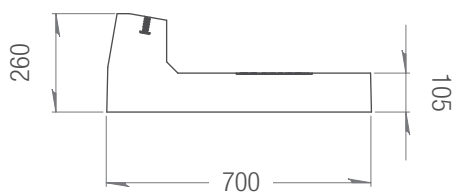
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**BALLAST 23010.CR DIMENSIONS**

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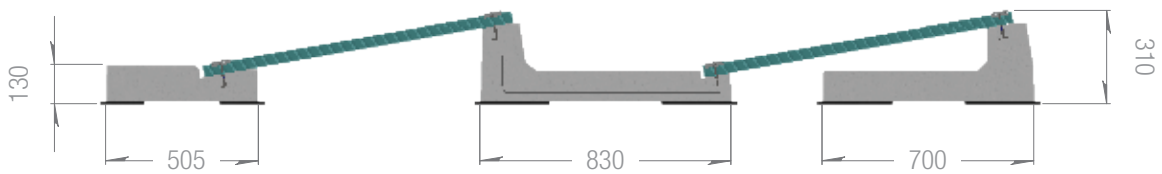
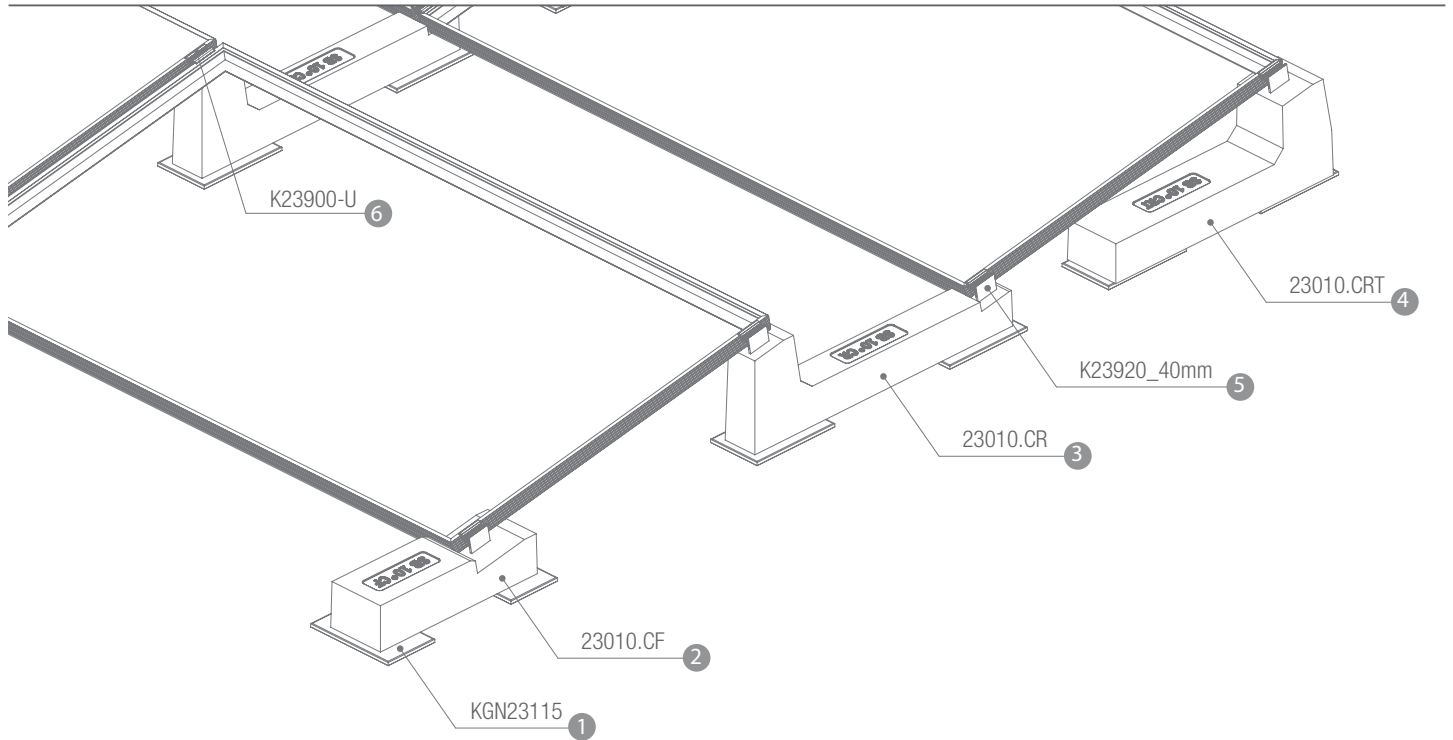
**BALLAST 23010.CRT DIMENSIONS**

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## 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.

# CONNECT 10°.V

ART. 23010.CF/CRV/CRTV



The perfect balance between strength and lightness: the Connect system integrates modules and ballasts into a single reticular structure, reducing roof loads and transport costs, while ensuring perfectly balanced weight distribution. The system is available with a 10° tilt angle, allows for vertical panel mounting, and enables easy and fast installation on any type of flat roof.

**Tilt angle** 10°

**Module positioning** Vertical - Long side

**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)

## BALLAST ART. 23010.CF

<b>Ballast weight</b>	20 kg	<b>Pallet dimensions</b>	1150x1020x392h mm
<b>Quantity per pallet</b>	28 pieces	<b>Pallet weight</b>	576 kg

## BALLAST ART. 23010.CRV

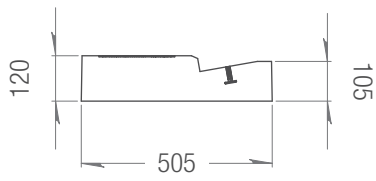
<b>Ballast weight</b>	38 kg	<b>Pallet dimensions</b>	860x1130x613h mm
<b>Quantity per pallet</b>	16 pieces	<b>Pallet weight</b>	621 kg

## BALLAST ART. 23010.CRTV

<b>Ballast weight</b>	33 kg	<b>Pallet dimensions</b>	1110x710x626h mm
<b>Quantity per pallet</b>	18 pieces	<b>Pallet weight</b>	608 kg

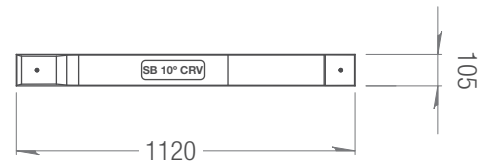
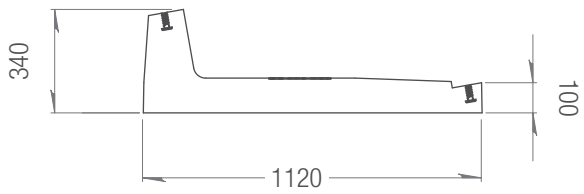
## BALLAST 23010.CF DIMENSIONS

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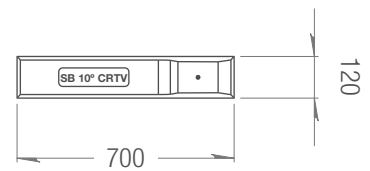
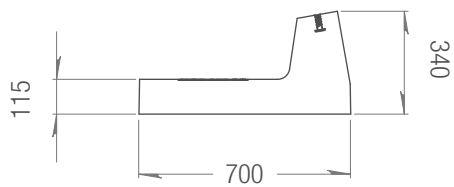
## BALLAST 23010.CRV DIMENSIONS

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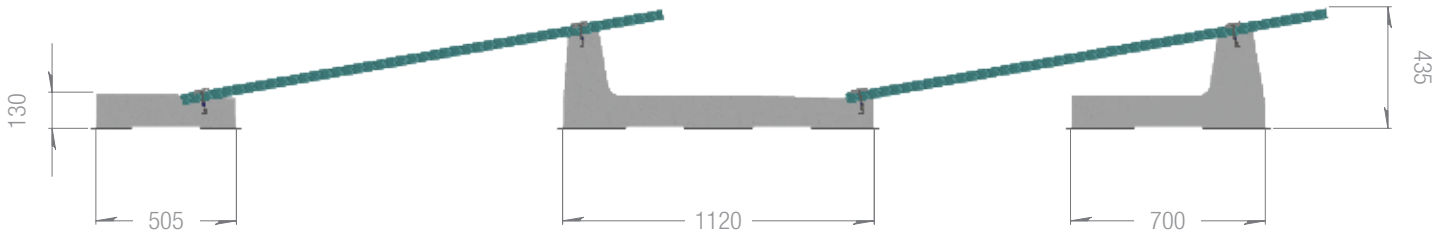
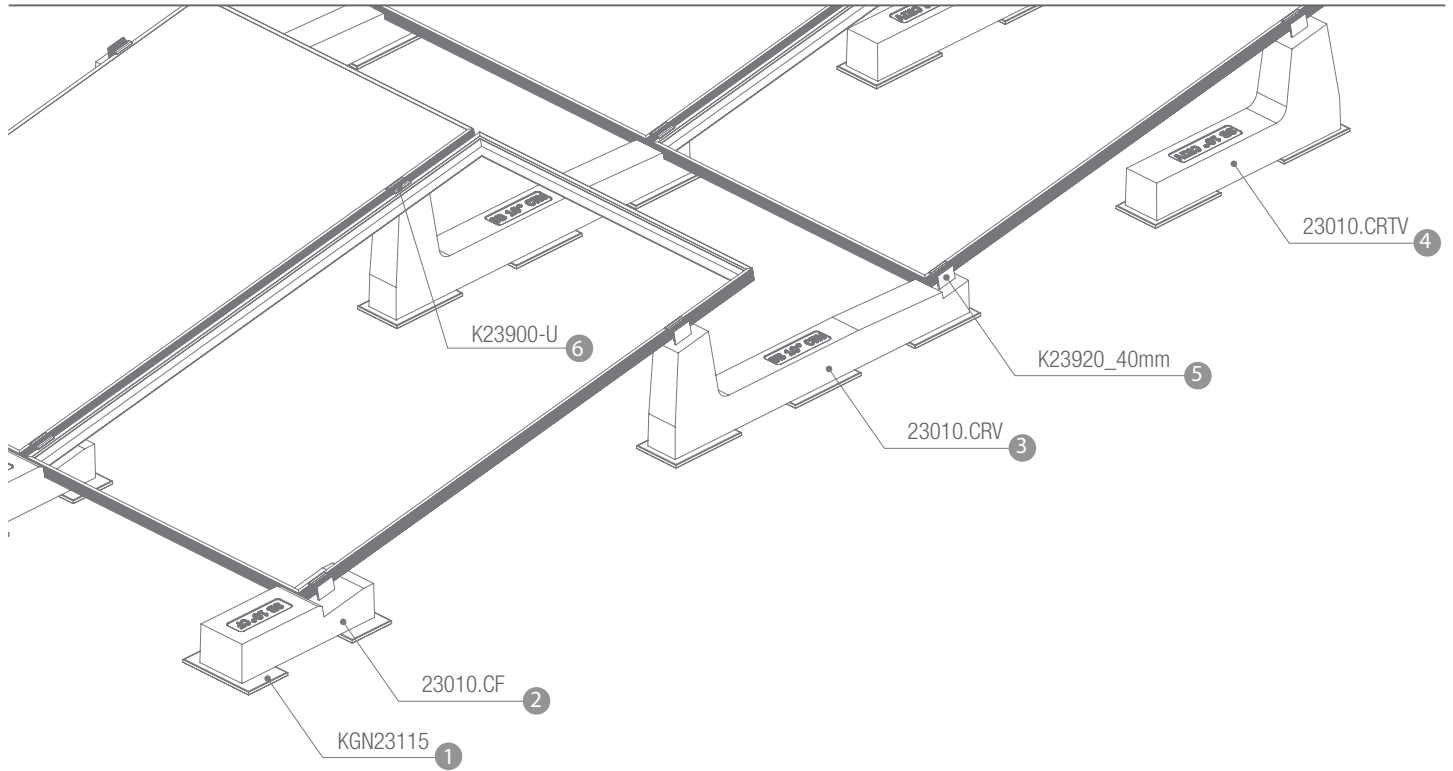


## BALLAST 23010.CRTV DIMENSIONS

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## VERTICAL MODULE INSTALLATION - Long Side



### INFO

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

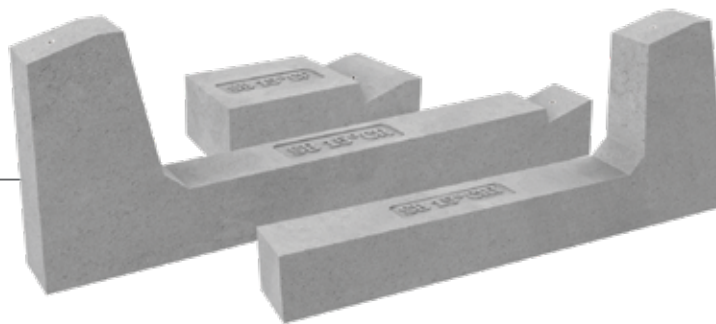
The measurements are based on the use of a panel with dimensions of 1722mm x 1134mm x 35mm. They vary depending on the size of the panel used.

Follow Sun Ballast®'s assembly instructions.

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

# CONNECT 15°

ART. 23015.CF/CR/CRT



The perfect balance between strength and lightness: the Connect system links modules and ballasts into a single reticular structure, reducing roof loads and transportation costs, while ensuring perfectly balanced weight distribution.

**Tilt angle** 15°

**Module positioning** Horizontal - Short side

**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)

## BALLAST ART. 23015.CF

<b>Ballast weight</b>	21 kg	<b>Pallet dimensions</b>	1080x1070x412h mm
<b>Quantity per pallet</b>	28 pieces	<b>Pallet weight</b>	604 kg

## BALLAST ART. 23015.CR

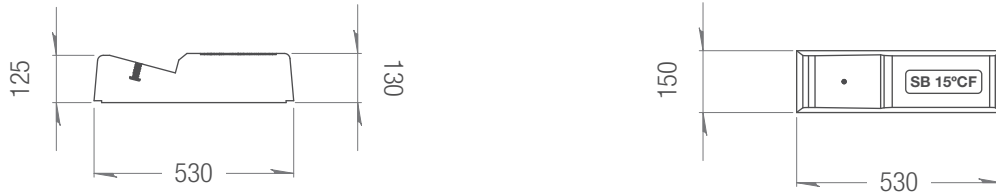
<b>Ballast weight</b>	30 kg	<b>Pallet dimensions</b>	1020x940x614h mm
<b>Quantity per pallet</b>	20 pieces	<b>Pallet weight</b>	614 kg

## BALLAST ART. 23015.CRT

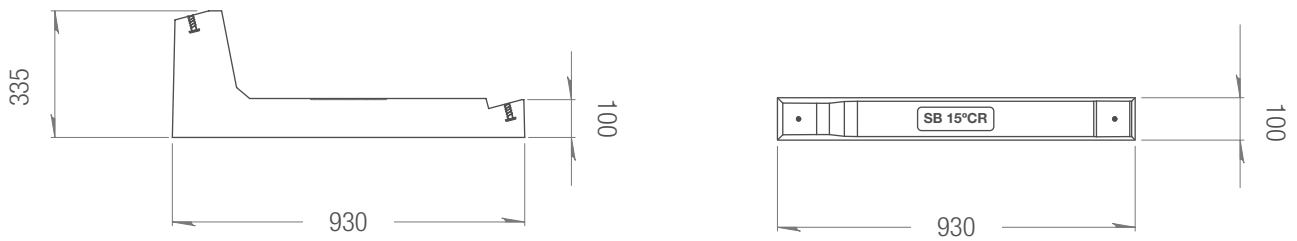
<b>Ballast weight</b>	30 kg	<b>Pallet dimensions</b>	830x810x616h mm
<b>Quantity per pallet</b>	14 pieces	<b>Pallet weight</b>	432 kg

**BALLAST 23015.CF DIMENSIONS**

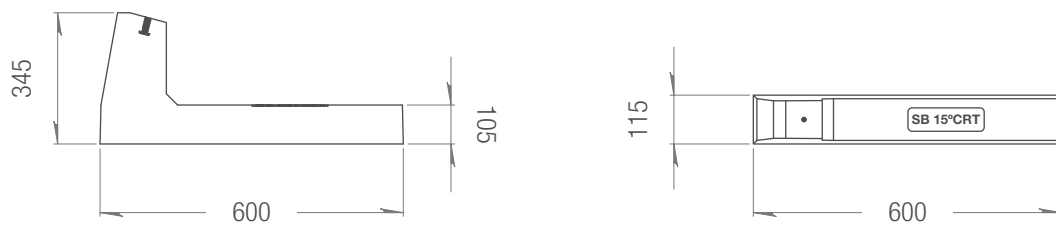
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**BALLAST 23015.CR DIMENSIONS**

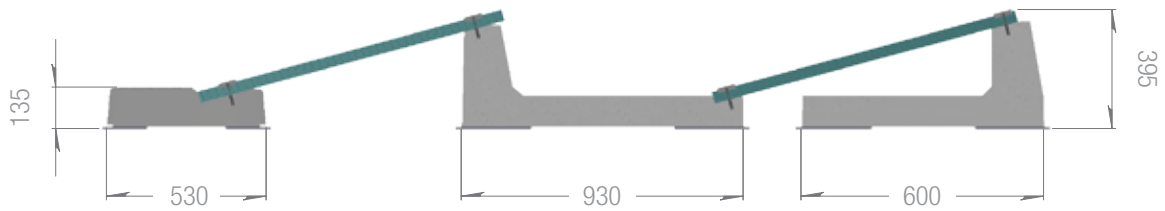
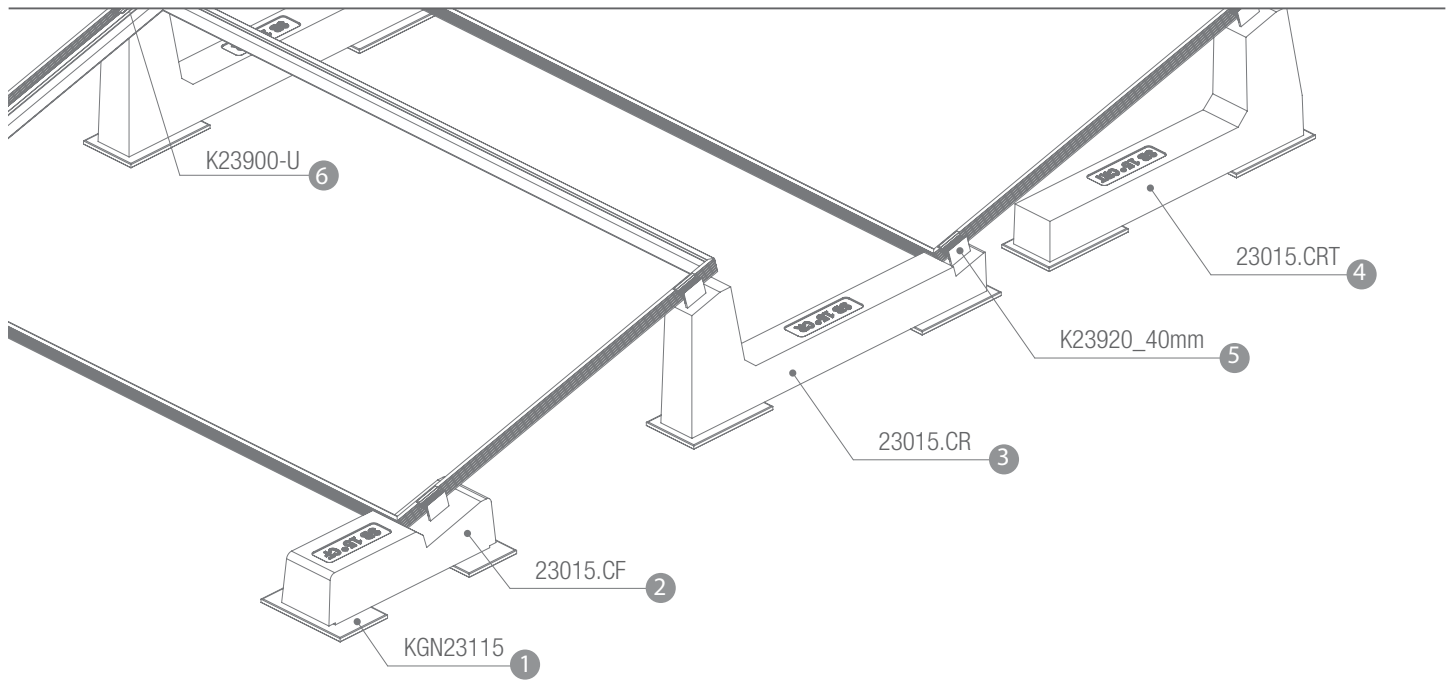
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**BALLAST 23015.CRT DIMENSIONS**

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## 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.

# CONNECT 20°

ART. 23020.CF/CR/CRT



The perfect balance between strength and lightness: the Connect system links modules and ballasts into a single reticular structure, reducing roof loads and transportation costs, while ensuring perfectly balanced weight distribution.

**Tilt angle** 20°

**Module positioning** Horizontal - Short side

**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)

## BALLAST ART. 23020.CF

<b>Ballast weight</b>	22 kg	<b>Pallet dimensions</b>	1050x1010x412h mm
<b>Quantity per pallet</b>	28 pieces	<b>Pallet weight</b>	630 kg

## BALLAST ART. 23020.CR

<b>Ballast weight</b>	33 kg	<b>Pallet dimensions</b>	880x1090x729h mm
<b>Quantity per pallet</b>	18 pieces	<b>Pallet weight</b>	607 kg

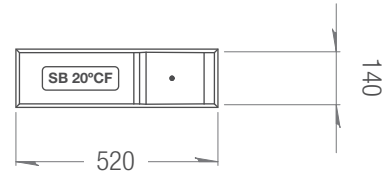
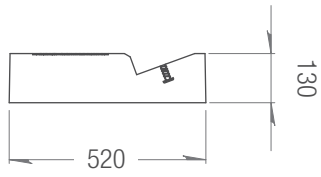
## BALLAST ART. 23020.CRT

<b>Ballast weight</b>	35 kg	<b>Pallet dimensions</b>	1080x610x736h mm
<b>Quantity per pallet</b>	16 pieces	<b>Pallet weight</b>	575 kg

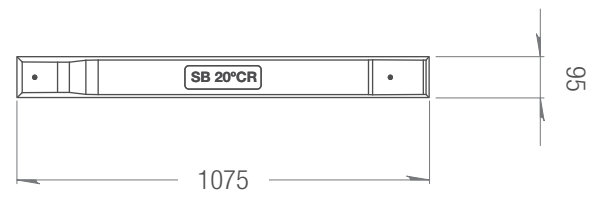
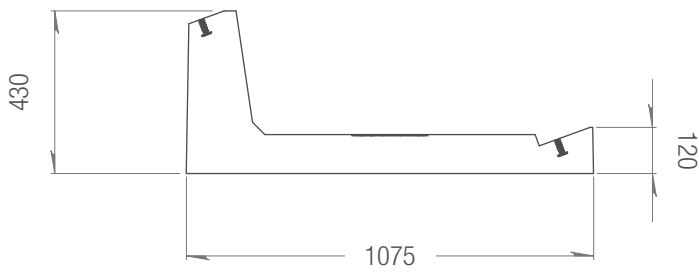


**BALLAST 23020.CF DIMENSIONS**

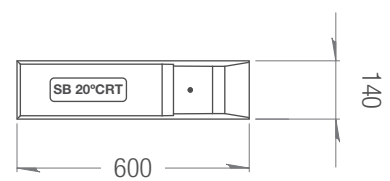
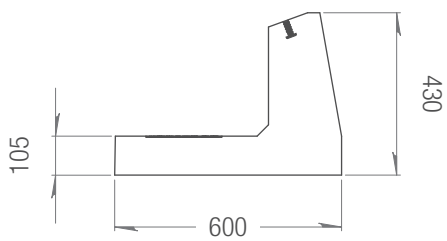
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**BALLAST 23020.CR DIMENSIONS**

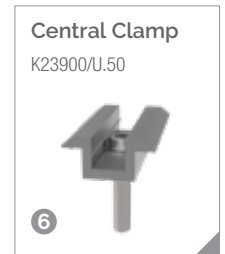
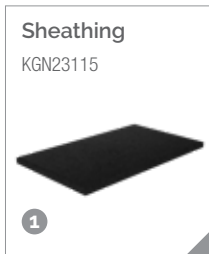
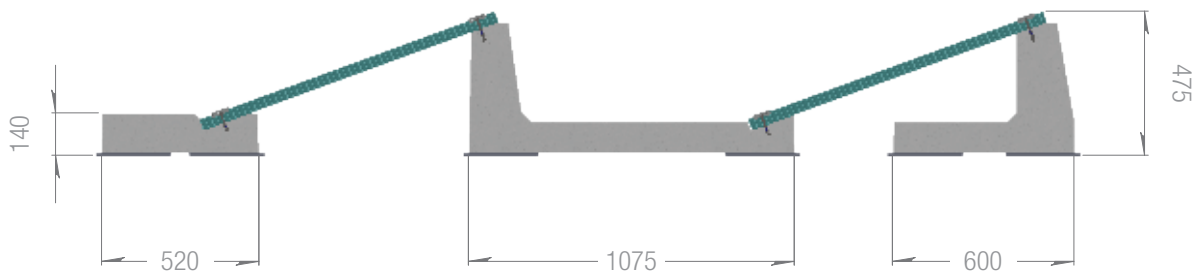
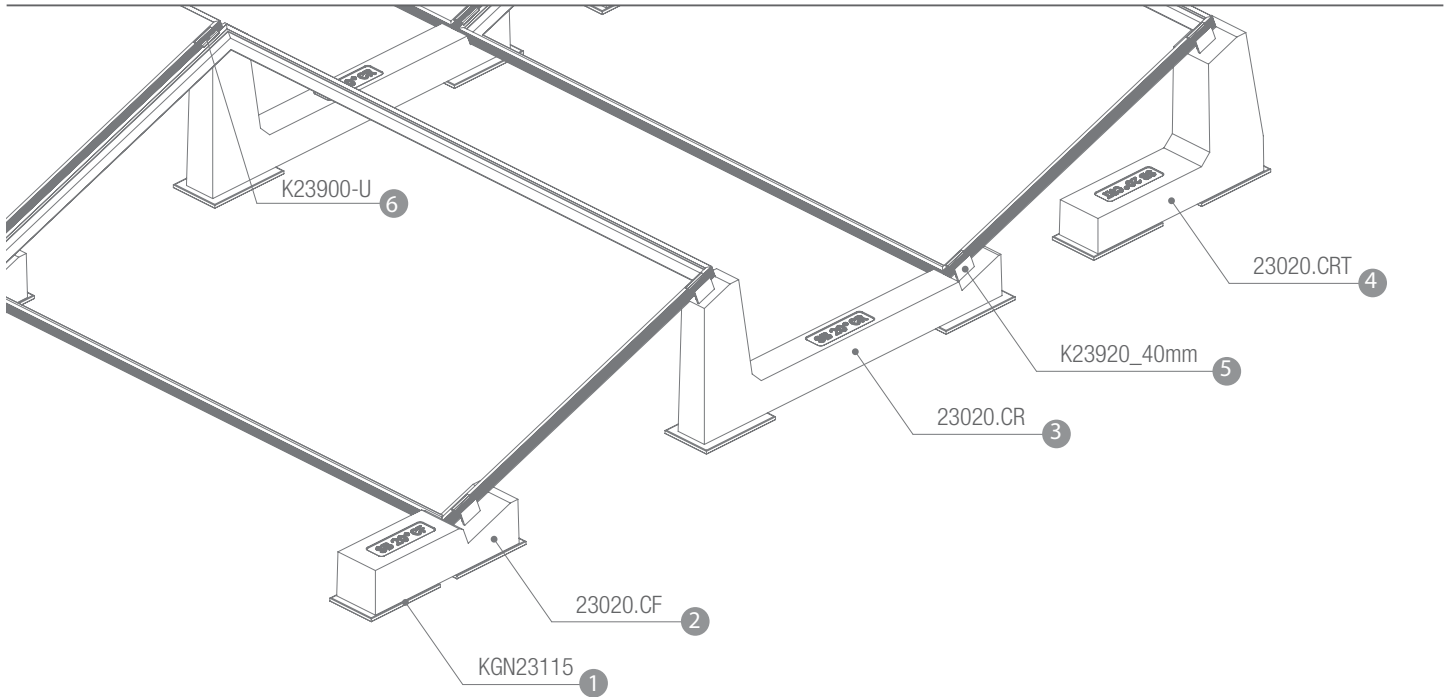
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**BALLAST 23020.CRT DIMENSIONS**

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## 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.

# CONNECT 30°

ART. 23030.CF/CR/CRT



The perfect balance between strength and lightness: the Connect system links modules and ballasts into a single reticular structure, reducing roof loads and transportation costs, while ensuring perfectly balanced weight distribution.

**Tilt angle** 30°

**Module positioning** Horizontal - Short side

**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)

## BALLAST ART. 23030.CF

<b>Ballast weight</b>	21 kg	<b>Pallet dimensions</b>	1230x810x402h mm
<b>Quantity per pallet</b>	24 pieces	<b>Pallet weight</b>	520 kg

## BALLAST ART. 23030.CR

<b>Ballast weight</b>	45 kg	<b>Pallet dimensions</b>	1280x730x740h mm
<b>Quantity per pallet</b>	12 pieces	<b>Pallet weight</b>	558 kg

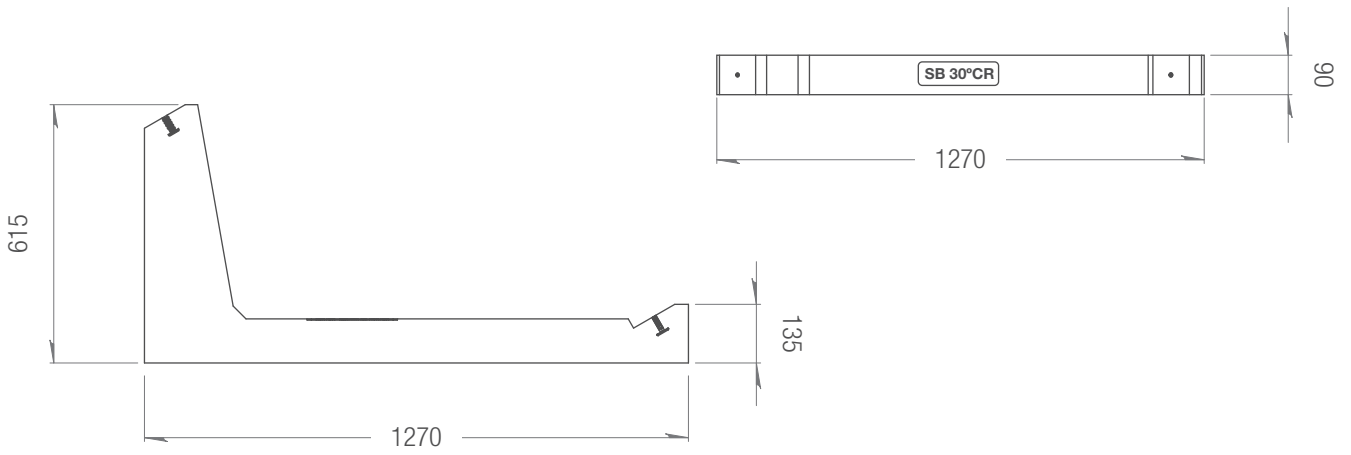
## BALLAST ART. 23030.CRT

<b>Ballast weight</b>	44 kg	<b>Pallet dimensions</b>	730x790x788h mm
<b>Quantity per pallet</b>	10 pieces	<b>Pallet weight</b>	452 kg

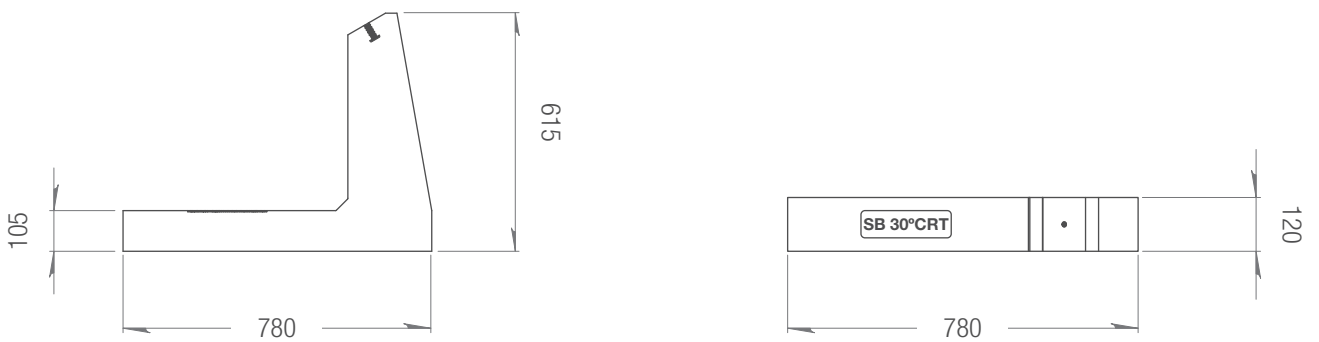
### BALLAST 23030.CF DIMENSIONS



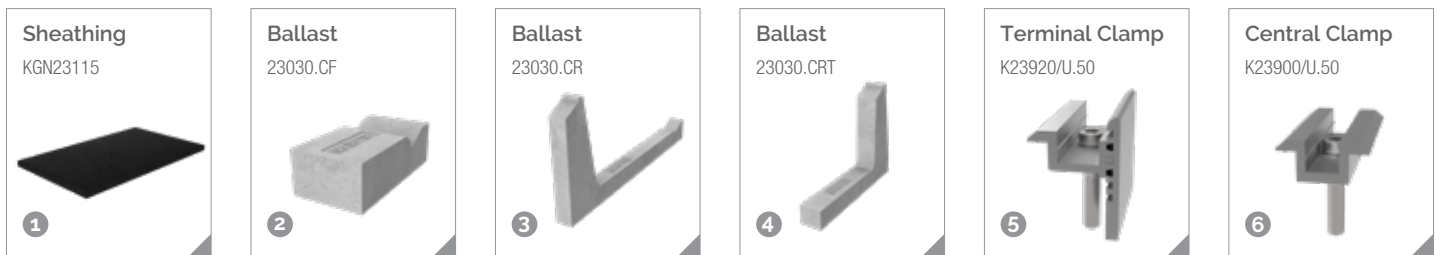
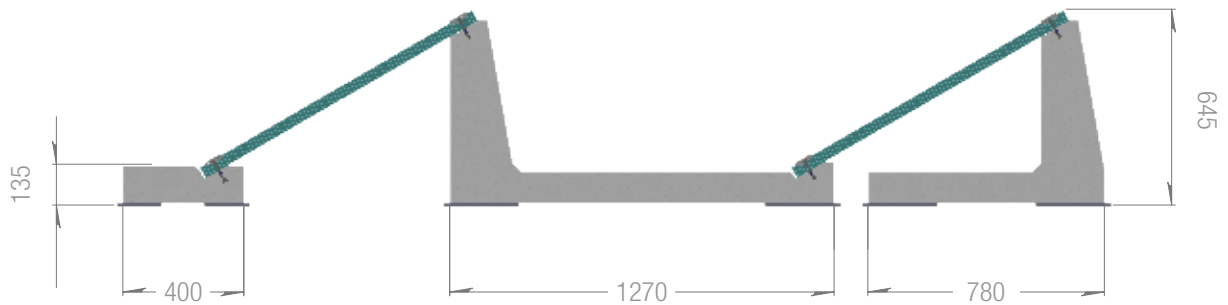
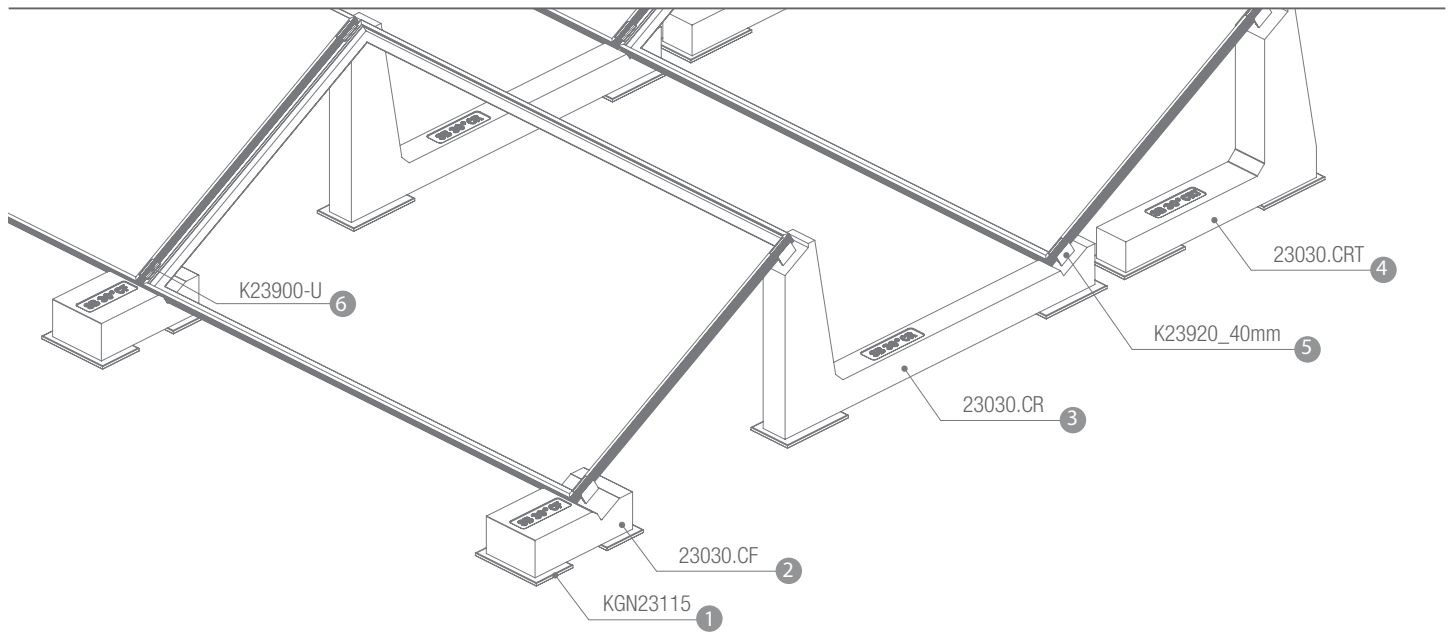
### BALLAST 23030.CR DIMENSIONS



### BALLAST 23030.CRT 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.

# BALLAST 0°

ART. 23000



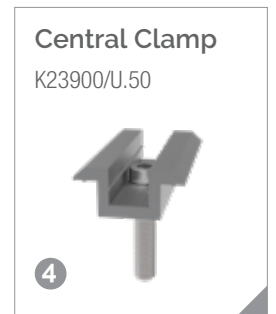
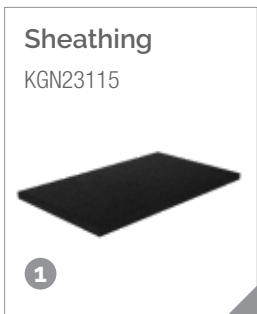
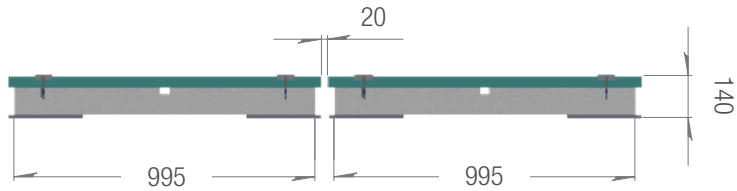
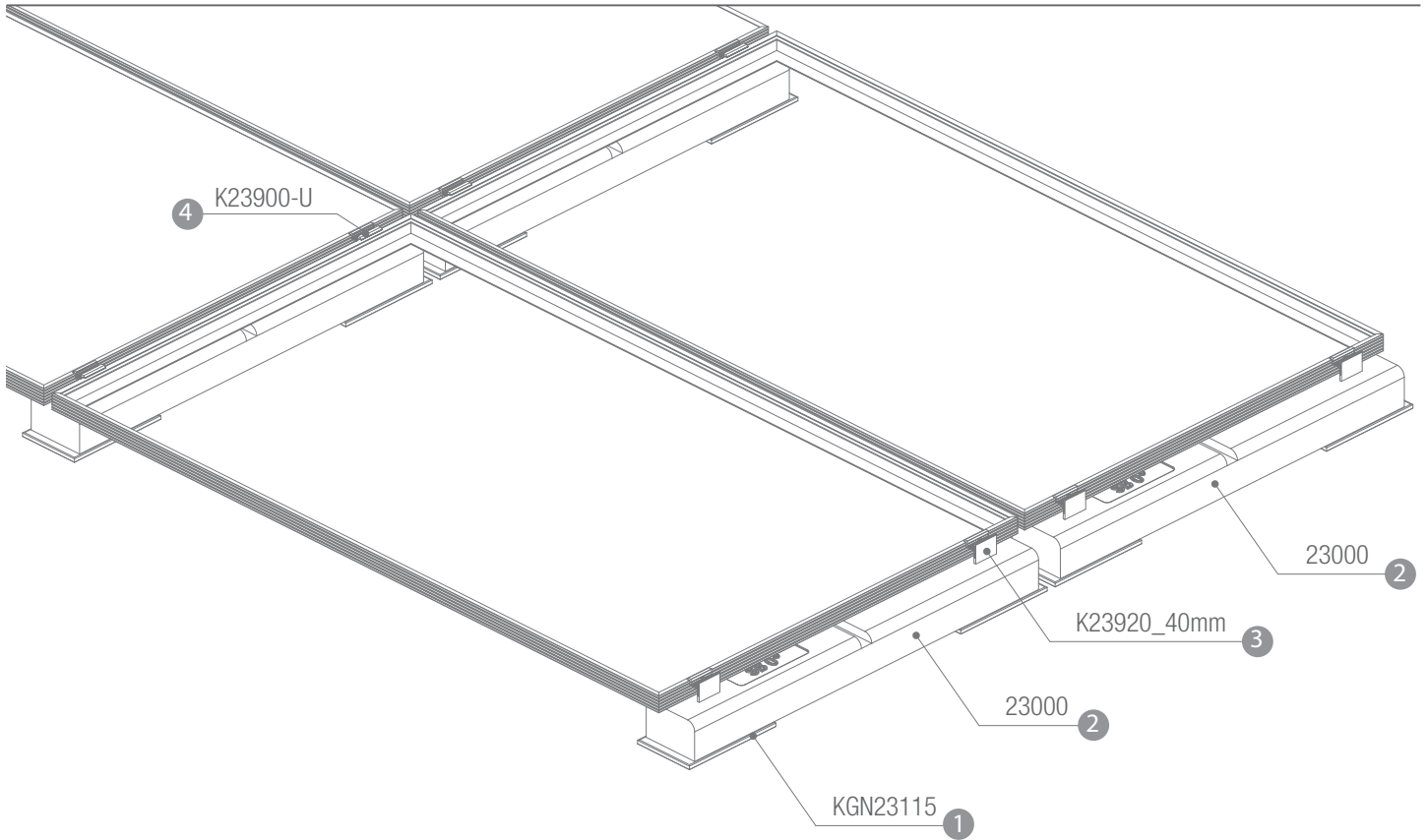
The Single-Row system offers a simple and highly versatile solution: available in a wide range of tilt angles from 0° to 30°, the ballasts allow for mounting of the panels vertically, horizontally, or with an East-West orientation. The mounting system enables flexible modulation of the distance between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

<b>Tilt angle</b>	0°
<b>Module positioning</b>	Horizontal - Short side / Vertical - Long side
<b>Ballast weight</b>	30 kg
<b>Quantity per pallet</b>	18 pieces
<b>Pallet dimensions</b>	1015x870x434h mm
<b>Pallet weight</b>	552 kg
<b>Compatible accessories</b>	Sheathing (KGN23115), Universal clamps (K23900/U.50, K23920/U.50), PowerClamp (K23900/PWC.50, 23920/PWC), Junction plate (K23804), No-Flex (K23712)

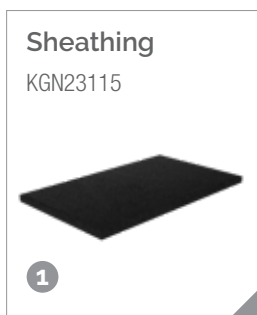
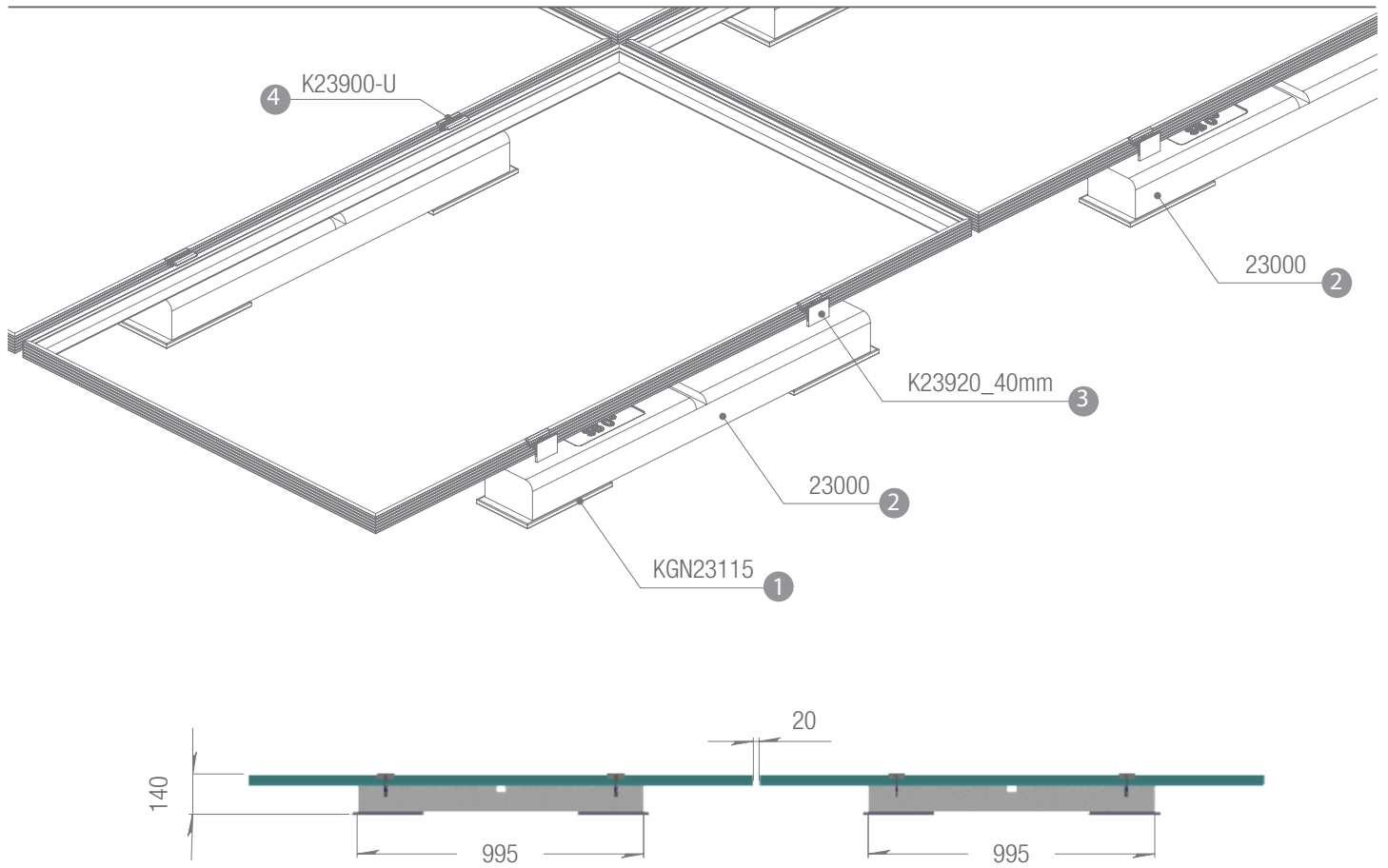
## BALLAST DIMENSIONS



**HORIZONTAL MODULE INSTALLATION - Short Side**



## VERTICAL MODULE INSTALLATION - Long Side



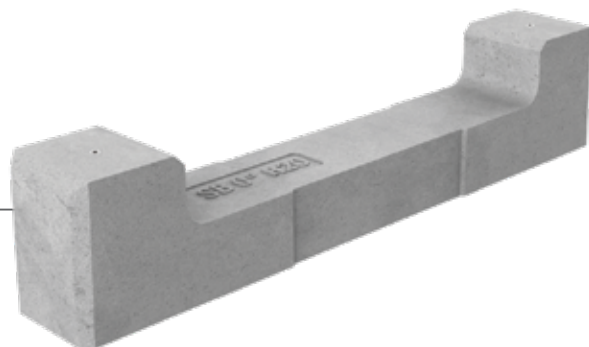
### INFO

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 0°

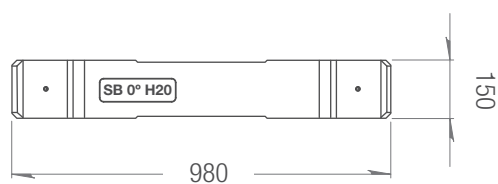
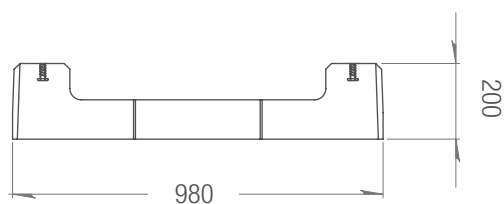
ART. 23000.H20



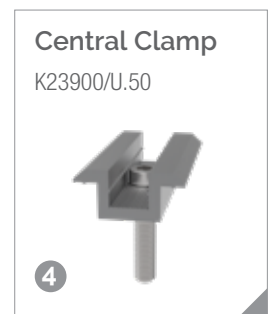
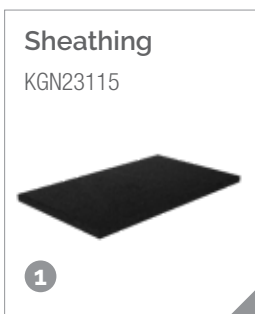
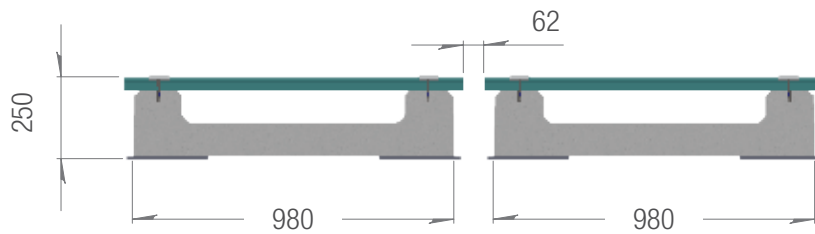
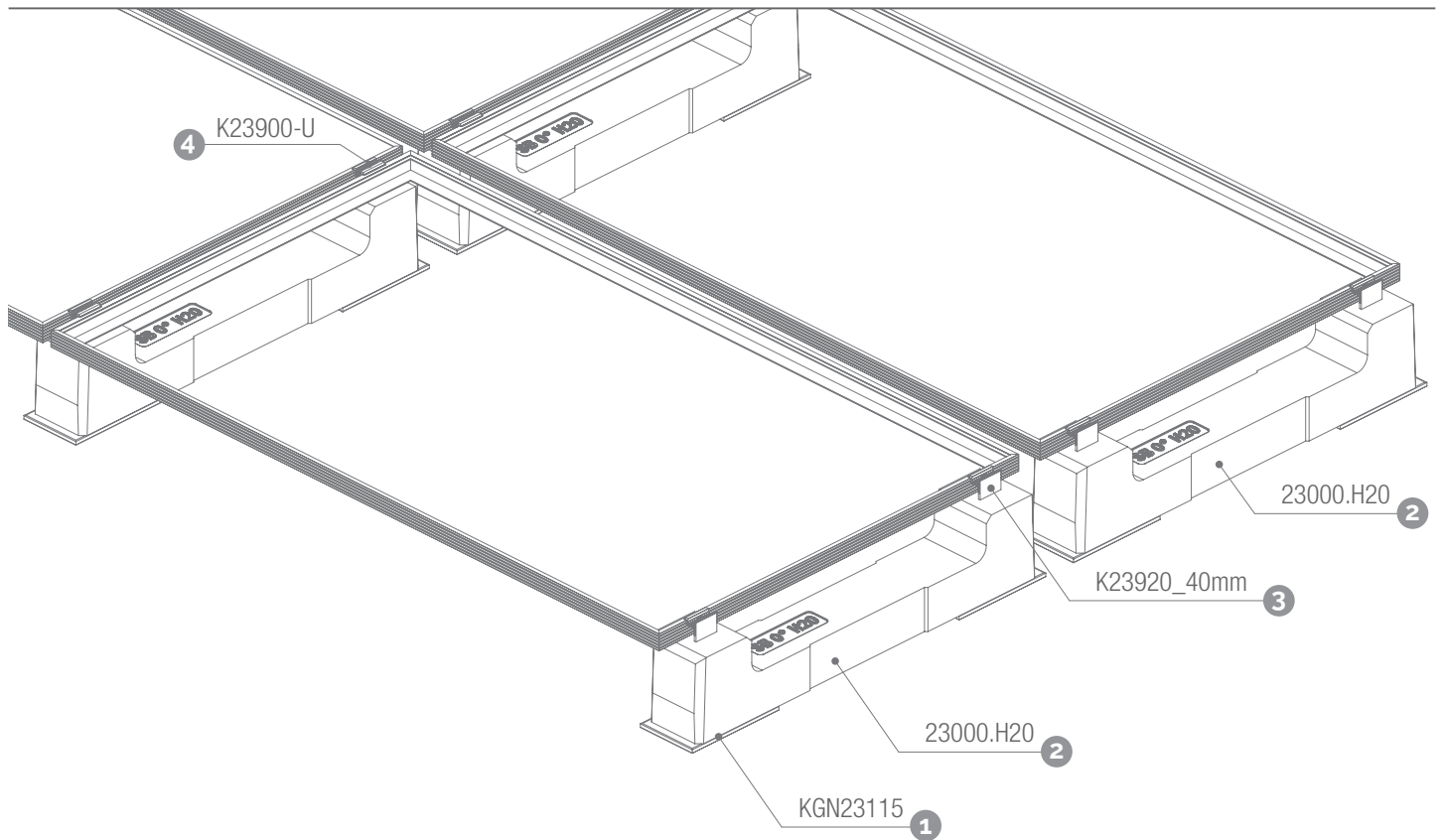
The Single-Row system offers a simple and highly versatile solution: available in a wide range of tilt angles from 0° to 30°, the ballasts allow for mounting of the panels vertically, horizontally, or with an East-West orientation. The mounting system enables flexible modulation of the distance between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

<b>Tilt angle</b>	0°
<b>Module positioning</b>	Horizontal - Short side / Vertical - Long side
<b>Ballast weight</b>	45 kg
<b>Quantity per pallet</b>	12 pieces
<b>Pallet dimensions</b>	1000x930x552h mm
<b>Pallet weight</b>	552 kg
<b>Compatible accessories</b>	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)

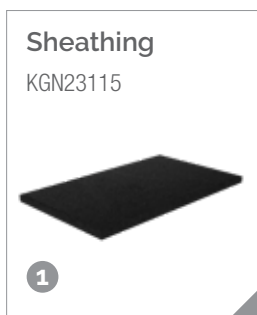
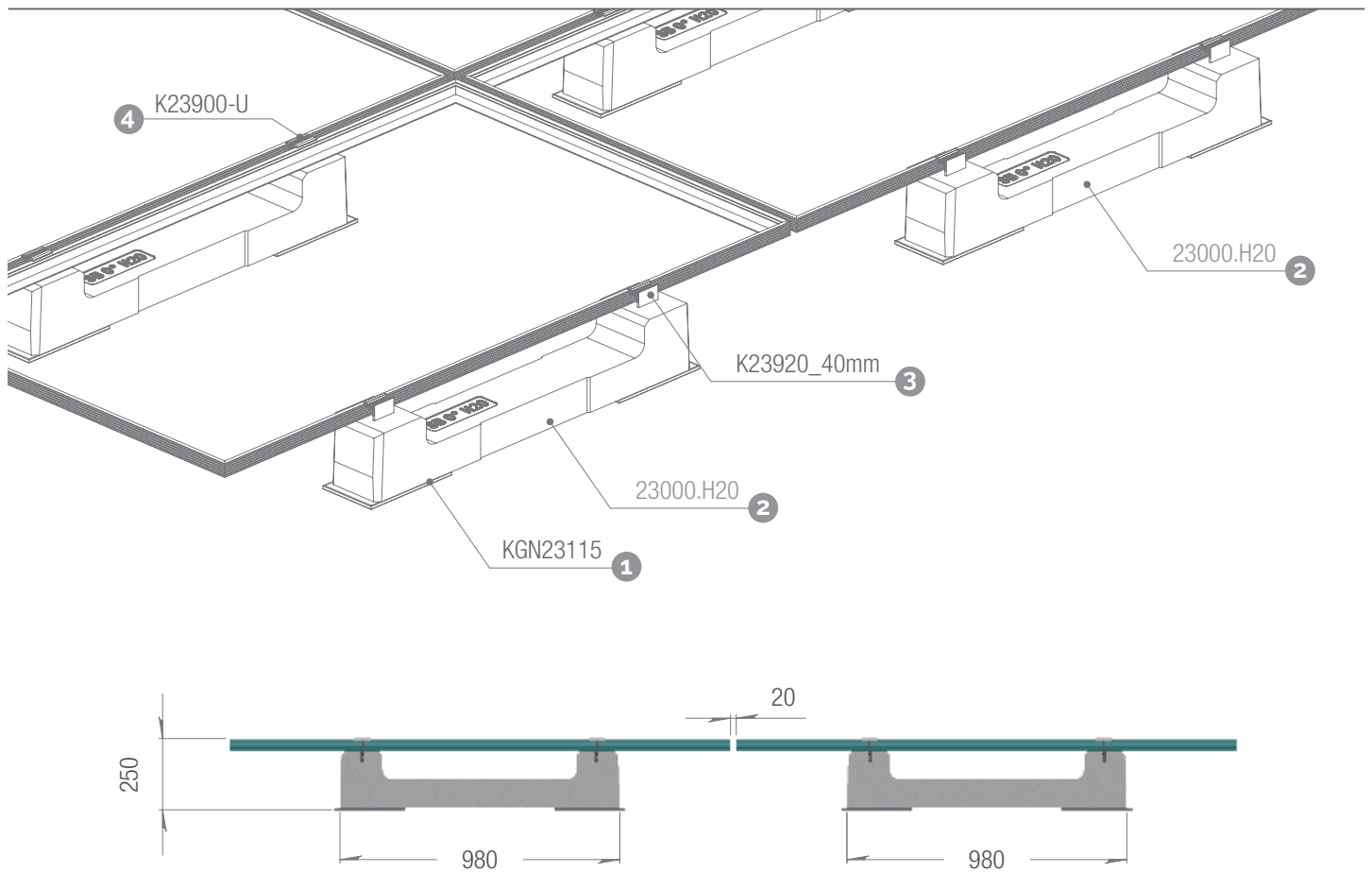
## BALLAST DIMENSIONS



## 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.

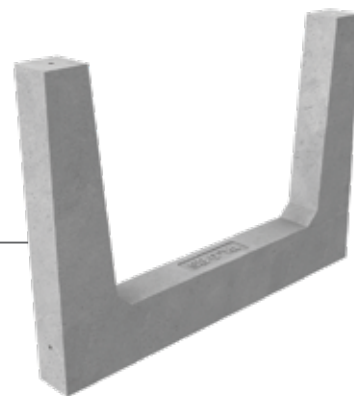
The measurements are based on the use of a panel with dimensions of 1722mm x 1134mm x 35mm. They vary depending on the size of the panel used.

Follow Sun Ballast®'s assembly instructions.

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

# BALLAST 0°

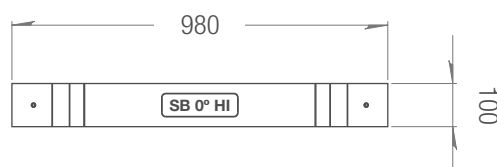
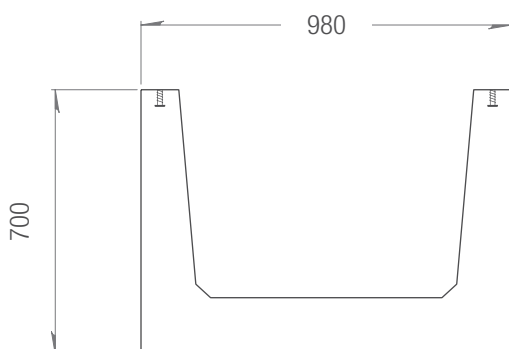
ART. 23000.HI



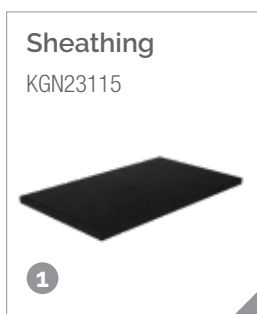
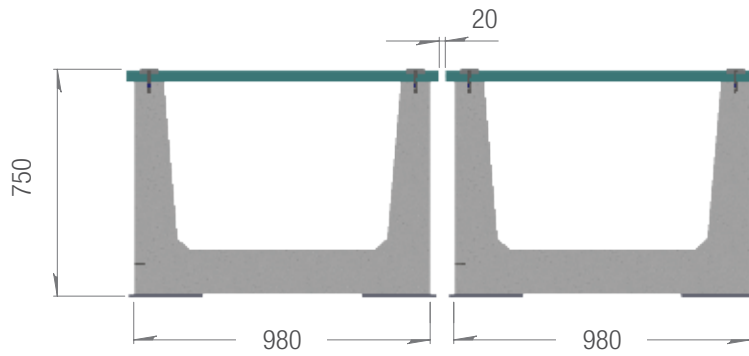
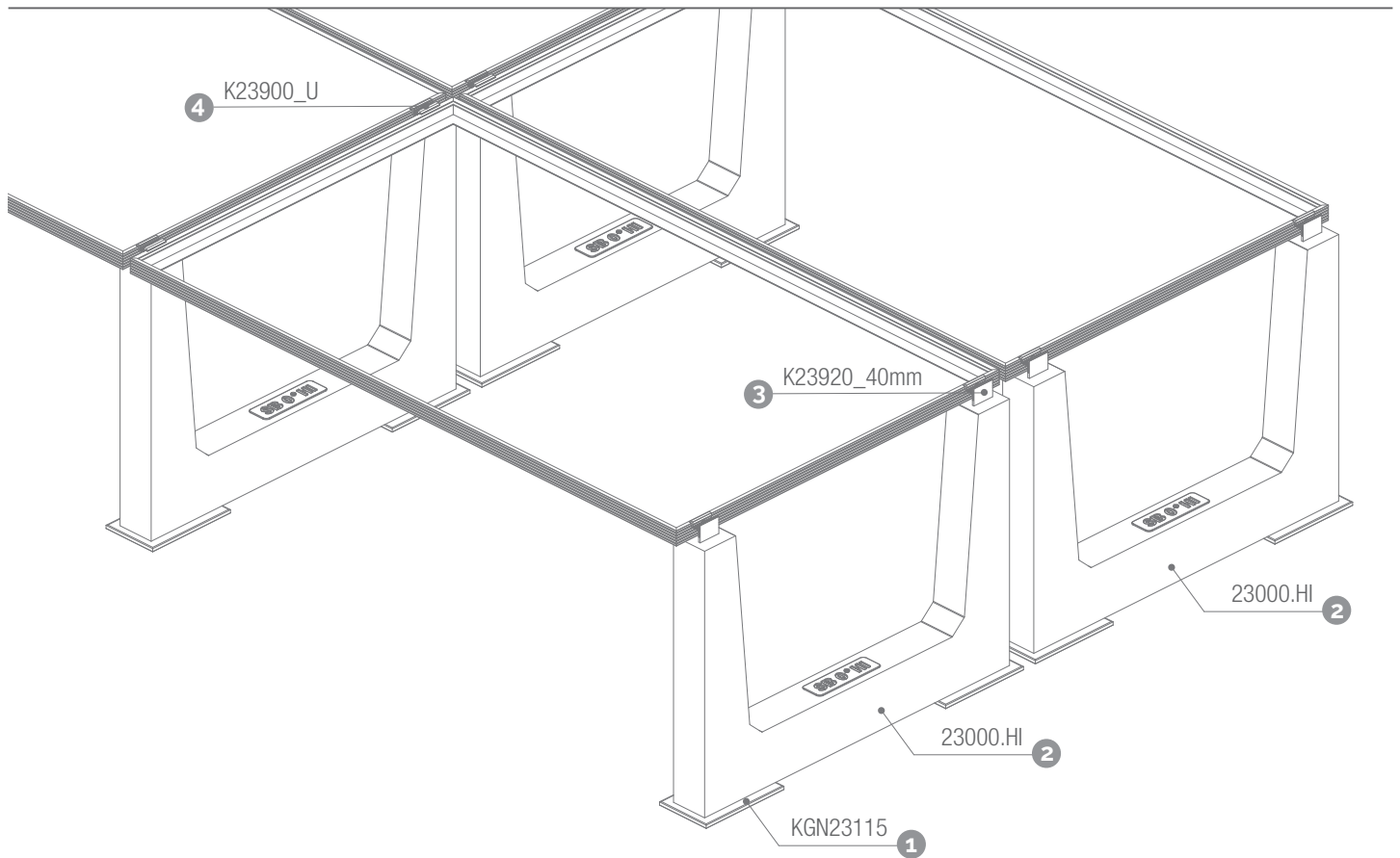
The Single-Row system offers a simple and highly versatile solution: available in a wide range of tilt angles from 0° to 30°, the ballasts allow for mounting of the panels vertically, horizontally, or with an East-West orientation. The mounting system enables flexible modulation of the distance between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

<b>Tilt angle</b>	0°
<b>Module positioning</b>	Horizontal - Short side / Vertical - Long side
<b>Ballast weight</b>	70 kg
<b>Quantity per pallet</b>	8 pieces
<b>Pallet dimensions</b>	1000x1420x576h mm
<b>Pallet weight</b>	576 kg
<b>Compatible accessories</b>	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)

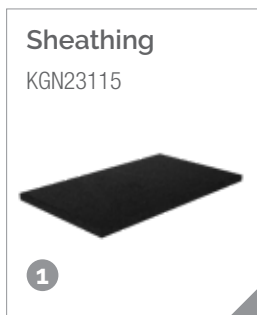
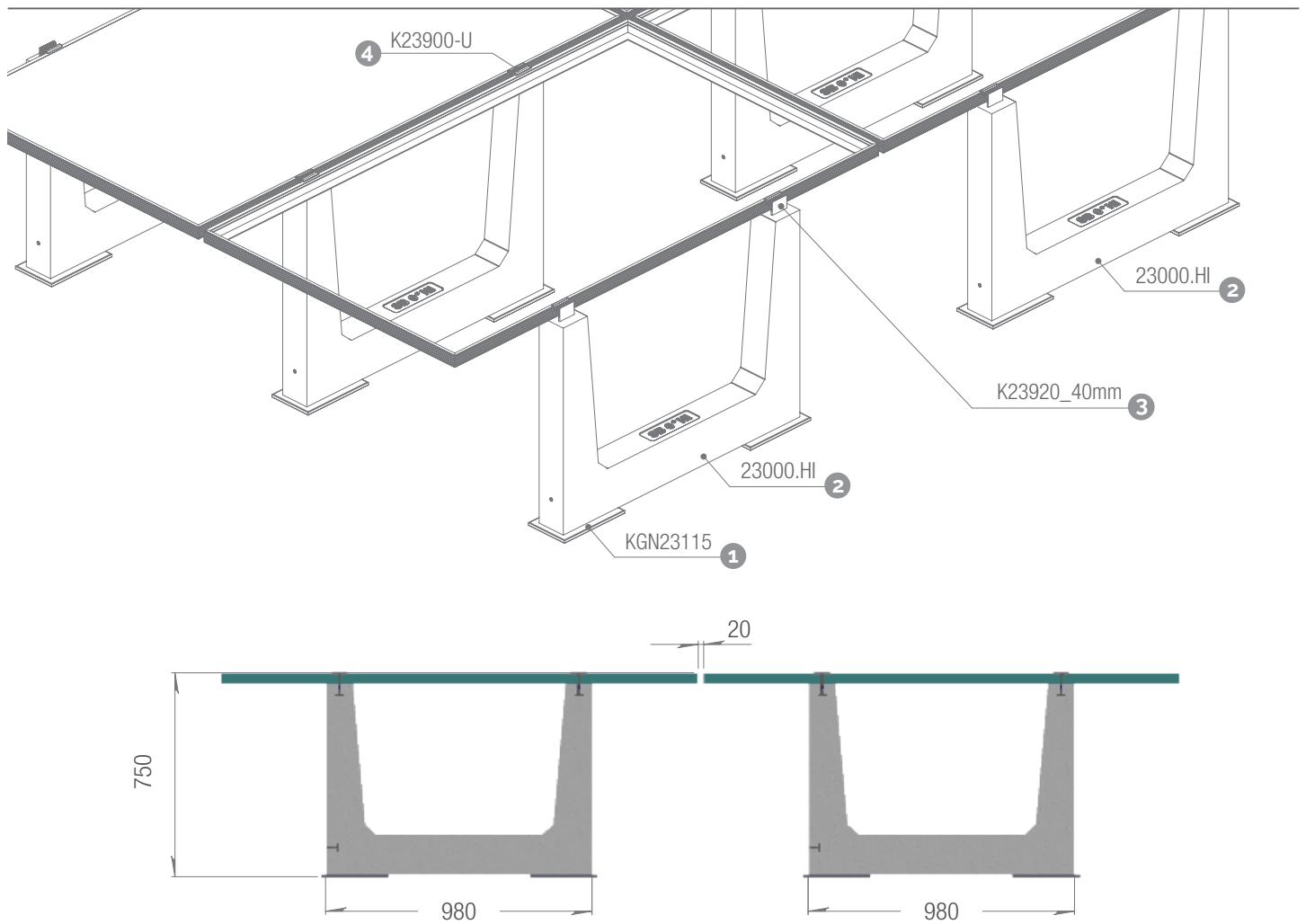
## BALLAST DIMENSIONS



## 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 0°

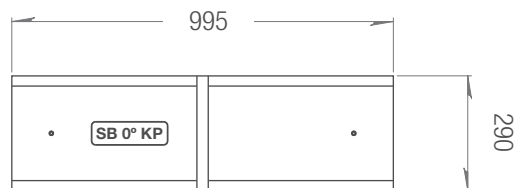
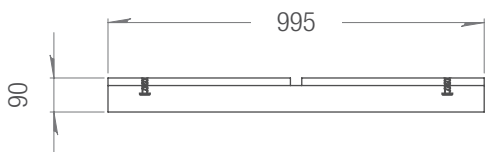
ART. 23000.KP



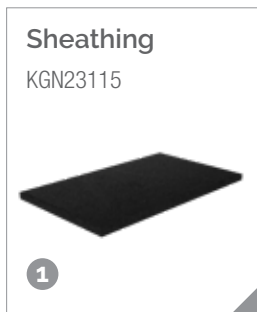
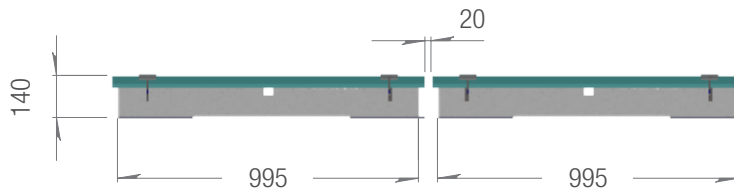
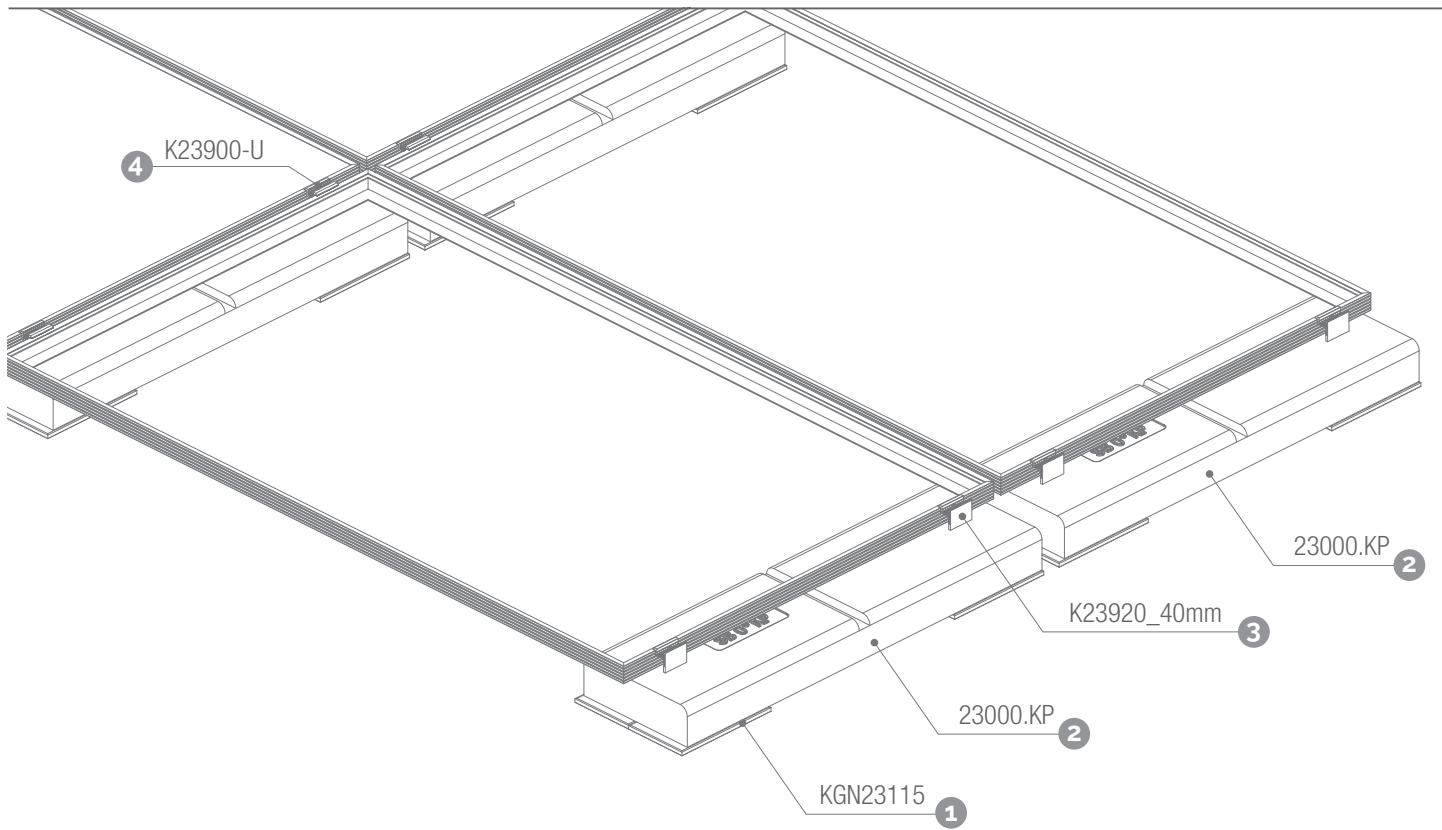
The Single-Row system offers a simple and highly versatile solution: available in a wide range of tilt angles from 0° to 30°, the ballasts allow for mounting of the panels vertically, horizontally, or with an East-West orientation. The mounting system enables flexible modulation of the distance between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

<b>Tilt angle</b>	0°
<b>Module positioning</b>	Horizontal - Short side / Vertical - Long side
<b>Ballast weight</b>	60 kg
<b>Quantity per pallet</b>	9 pieces
<b>Pallet dimensions</b>	1015x900x434h mm
<b>Pallet weight</b>	552 kg
<b>Compatible accessories</b>	Sheathing (KGN23115), Universal clamps (K23900/U.50, K23920/U.50), PowerClamp (K23900/PWC.50, 23920/PWC), Junction plate (K23804), No-Flex (K23712)

## BALLAST DIMENSIONS

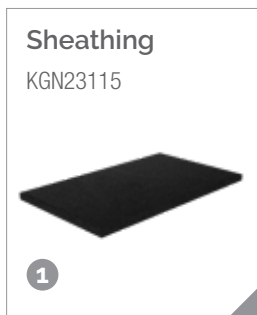
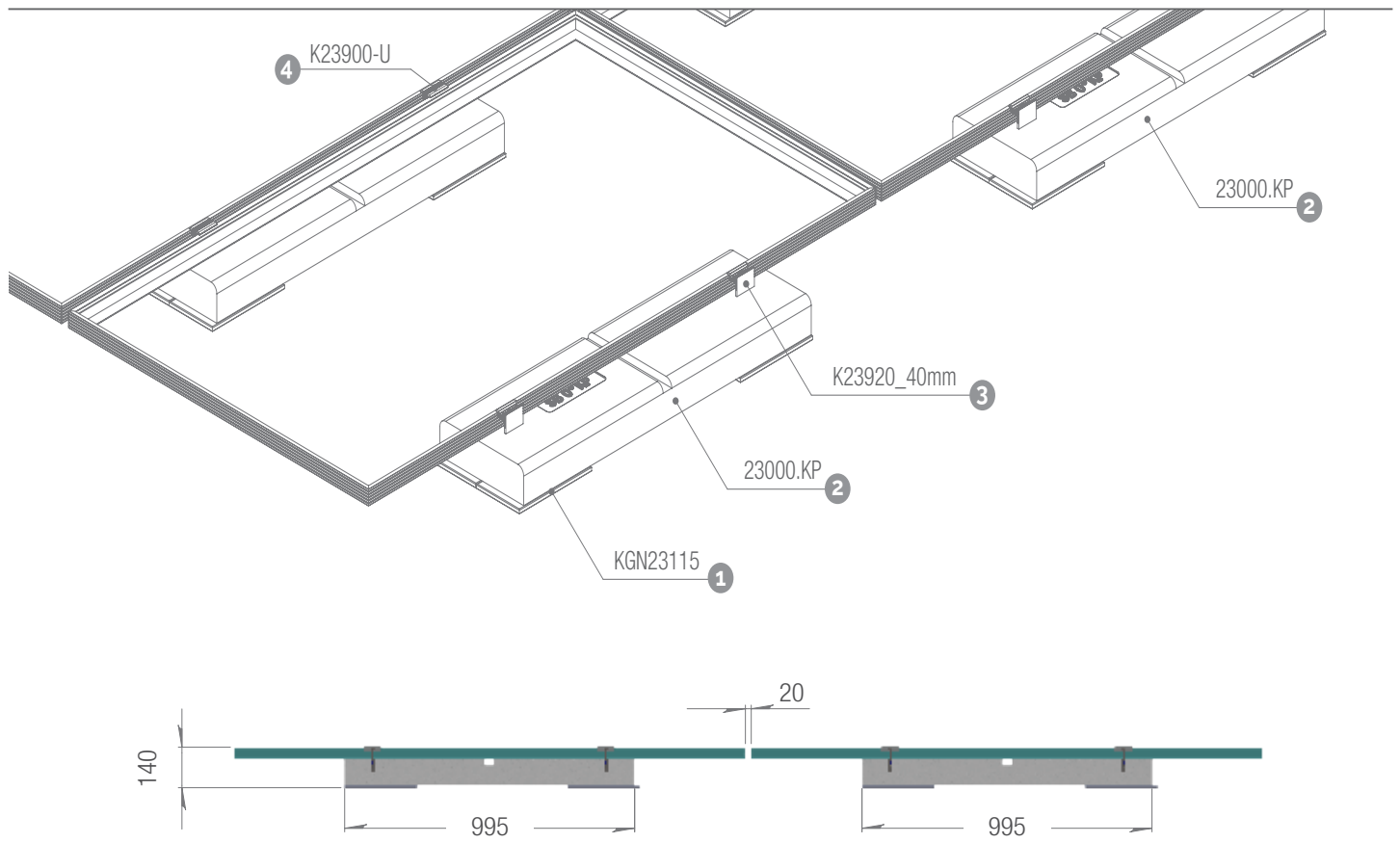


## HORIZONTAL MODULE INSTALLATION - Short Side





## 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 3°

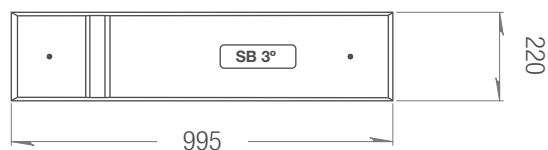
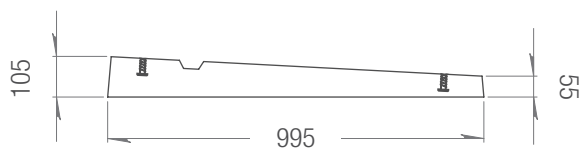
ART. 23003



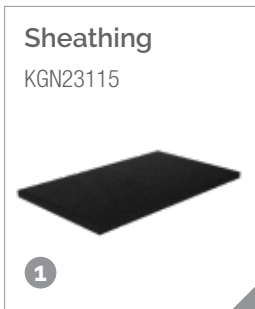
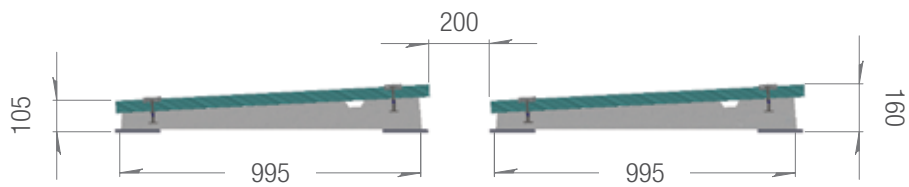
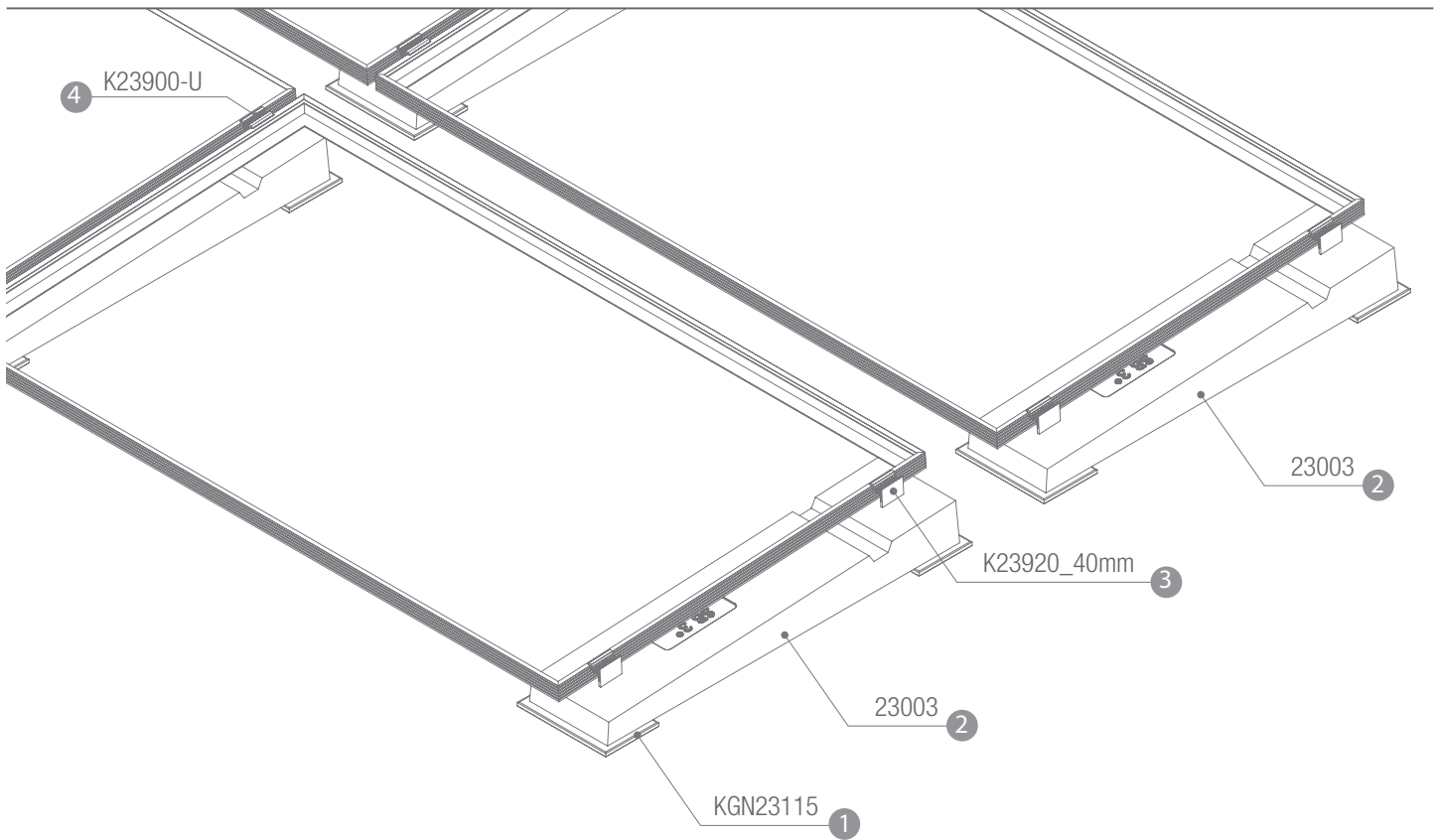
The Single-Row system offers a simple and highly versatile solution: available in a wide range of tilt angles from 0° to 30°, the ballasts allow for mounting of the panels vertically, horizontally, or with an East-West orientation. The mounting system enables flexible modulation of the distance between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

<b>Tilt angle</b>	3°
<b>Module positioning</b>	Horizontal - Short side / Vertical - Long side
<b>Ballast weight</b>	41 kg
<b>Quantity per pallet</b>	12 pieces
<b>Pallet dimensions</b>	1000x700x500h mm
<b>Pallet weight</b>	504 kg
<b>Compatible accessories</b>	Sheathing (KGN23115), Universal clamps (K23900/U.50, K23920/U.50), PowerClamp (K23900/PWC.50, 23920/PWC), Junction plate (K23804), No-Flex (K23712)

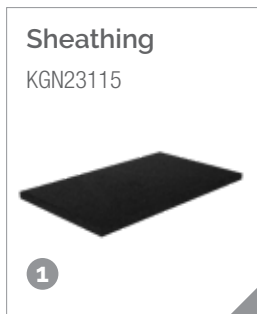
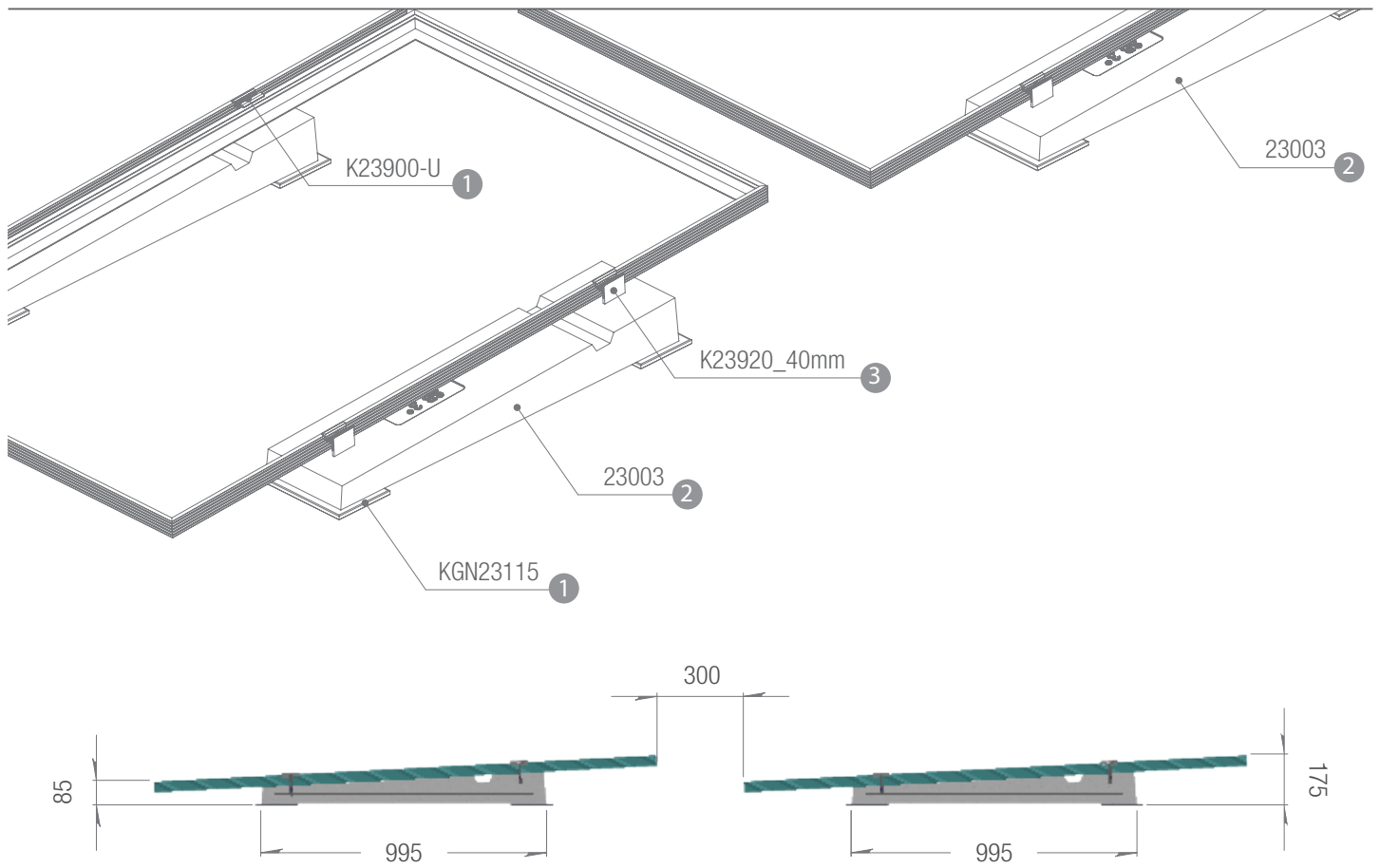
## BALLAST DIMENSIONS



## 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 5°L

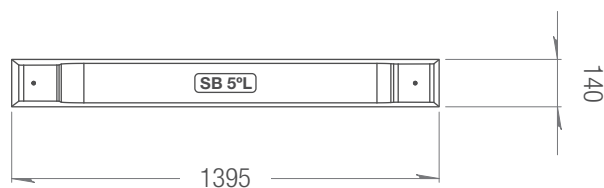
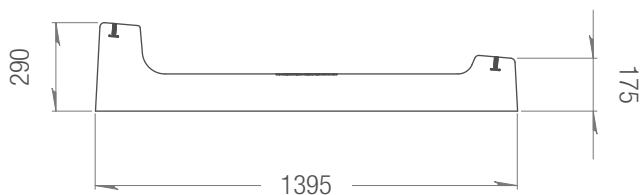
ART. 23005.L



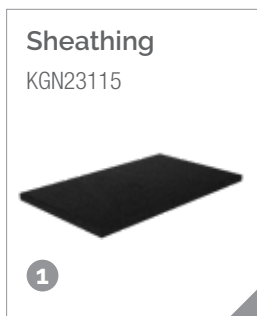
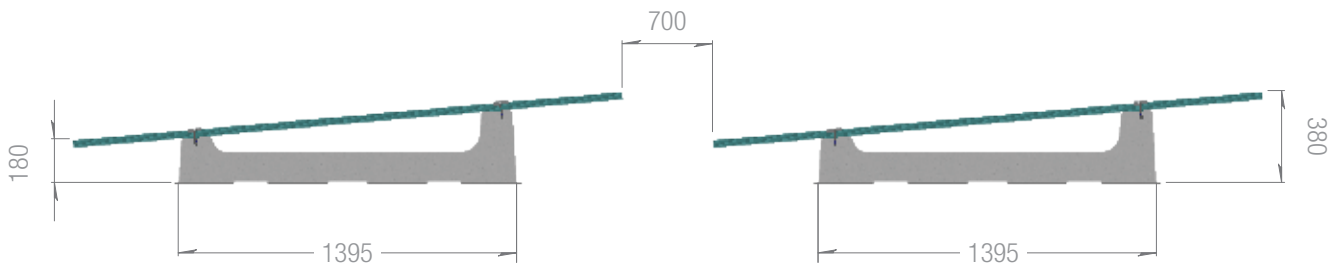
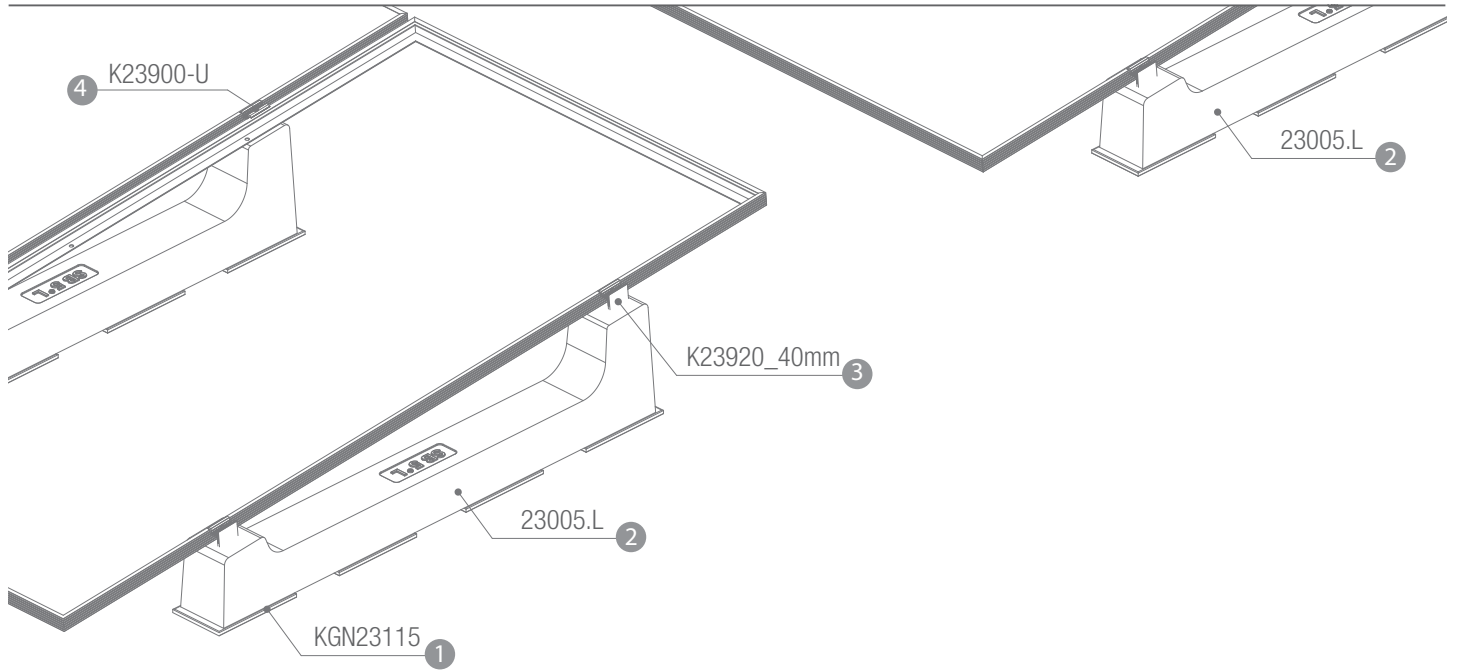
The Mono-XL ballasts with a 10° tilt angle offer a simple and versatile solution for large-size PV panels: vertical mounting ensures high holding strength and stability, while the ability to freely adjust the spacing between rows allows for quick installation, even in the presence of roof obstacles.

<b>Tilt angle</b>	5°
<b>Module positioning</b>	Vertical – Long Side
<b>Ballast weight</b>	65 kg
<b>Quantity per pallet</b>	10 pieces
<b>Pallet dimensions</b>	1410x720x620h mm
<b>Pallet weight</b>	661 kg
<b>Compatible accessories</b>	Sheathing (KGN23115), Universal clamps (K23900/U.50, K23920/U.50), PowerClamp (K23900/PWC.50, 23920/PWC), U-Block (23015.CRP - 23030.CRP)

## BALLAST DIMENSIONS



## 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 2278mm 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°L

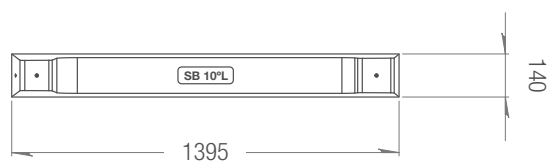
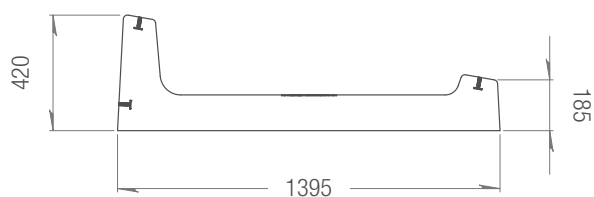
ART. 23010.L



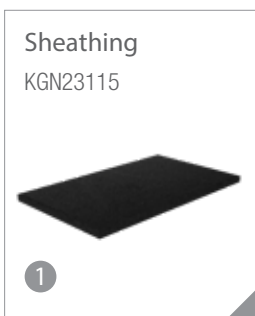
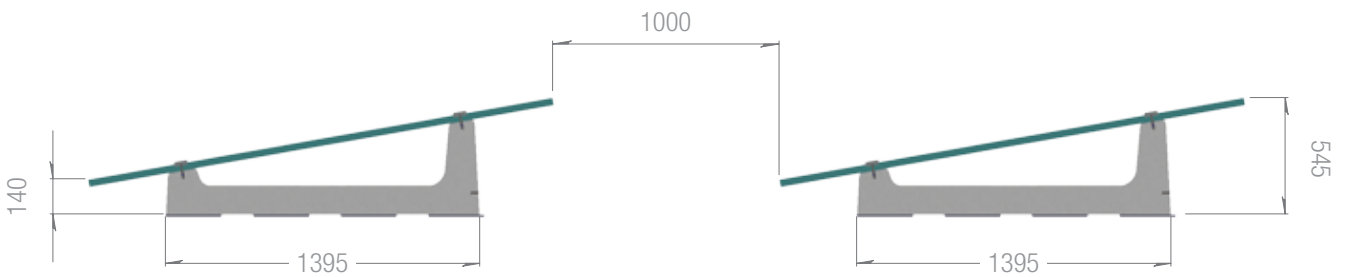
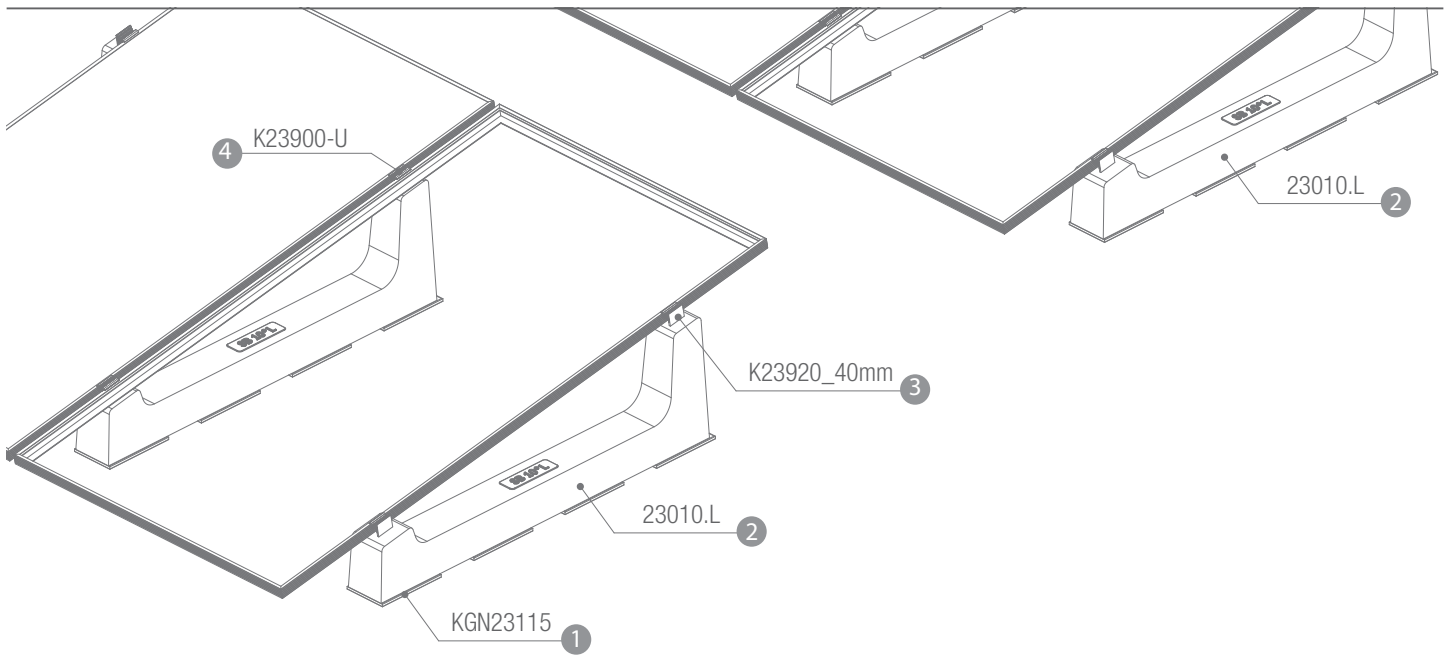
The Mono-XL ballasts with a 10° tilt angle offer a simple and versatile solution for large-size PV panels: vertical mounting ensures high holding strength and stability, while the ability to freely adjust the spacing between rows allows for quick installation, even in the presence of roof obstacles.

<b>Tilt angle</b>	10°
<b>Module positioning</b>	Vertical – Long Side
<b>Ballast weight</b>	70 kg
<b>Quantity per pallet</b>	10 pieces
<b>Pallet dimensions</b>	1410x740x760h mm
<b>Pallet weight</b>	712 kg
<b>Compatible accessories</b>	Sheathing (KGN23115), Universal clamps (K23900/U.50, K23920/U.50), PowerClamp (K23900/PWC.50, 23920/PWC), U-Block (23015.CRP - 23030.CRP), Junction plate (K23804), Cablowind (CW.CABLOWIND.95)

## BALLAST DIMENSIONS



## 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 2278mm x 1134mm x 35mm. They vary depending on the size of the panel used.

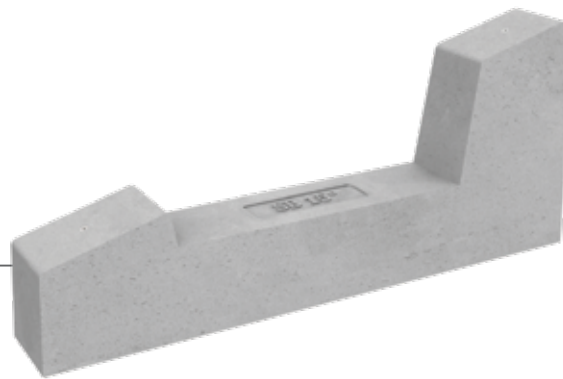
Follow Sun Ballast®'s assembly instructions.

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



# BALLAST 15°

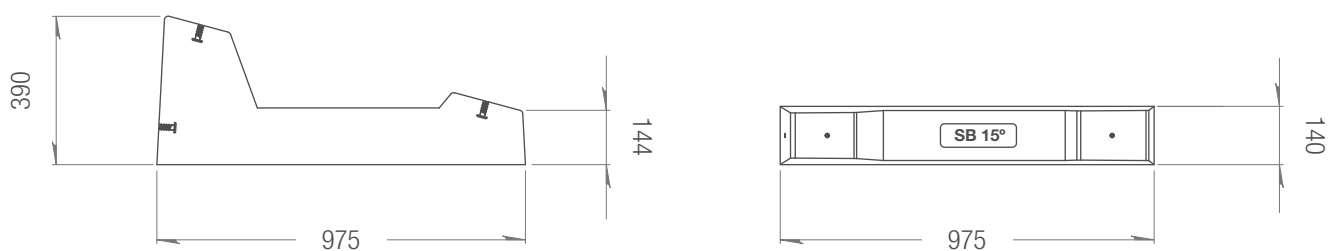
ART. 23015



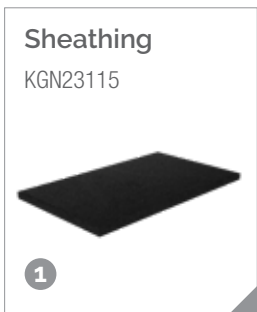
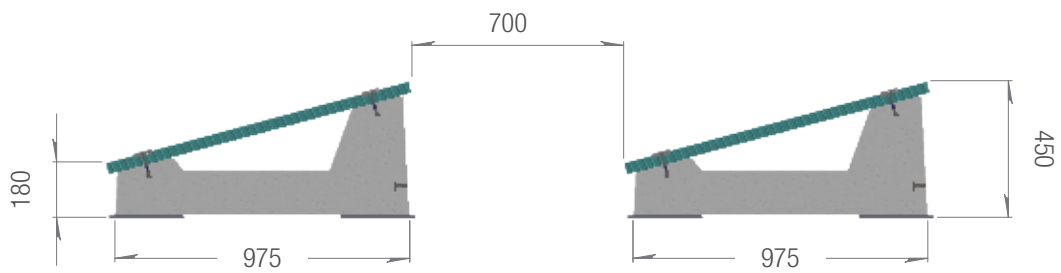
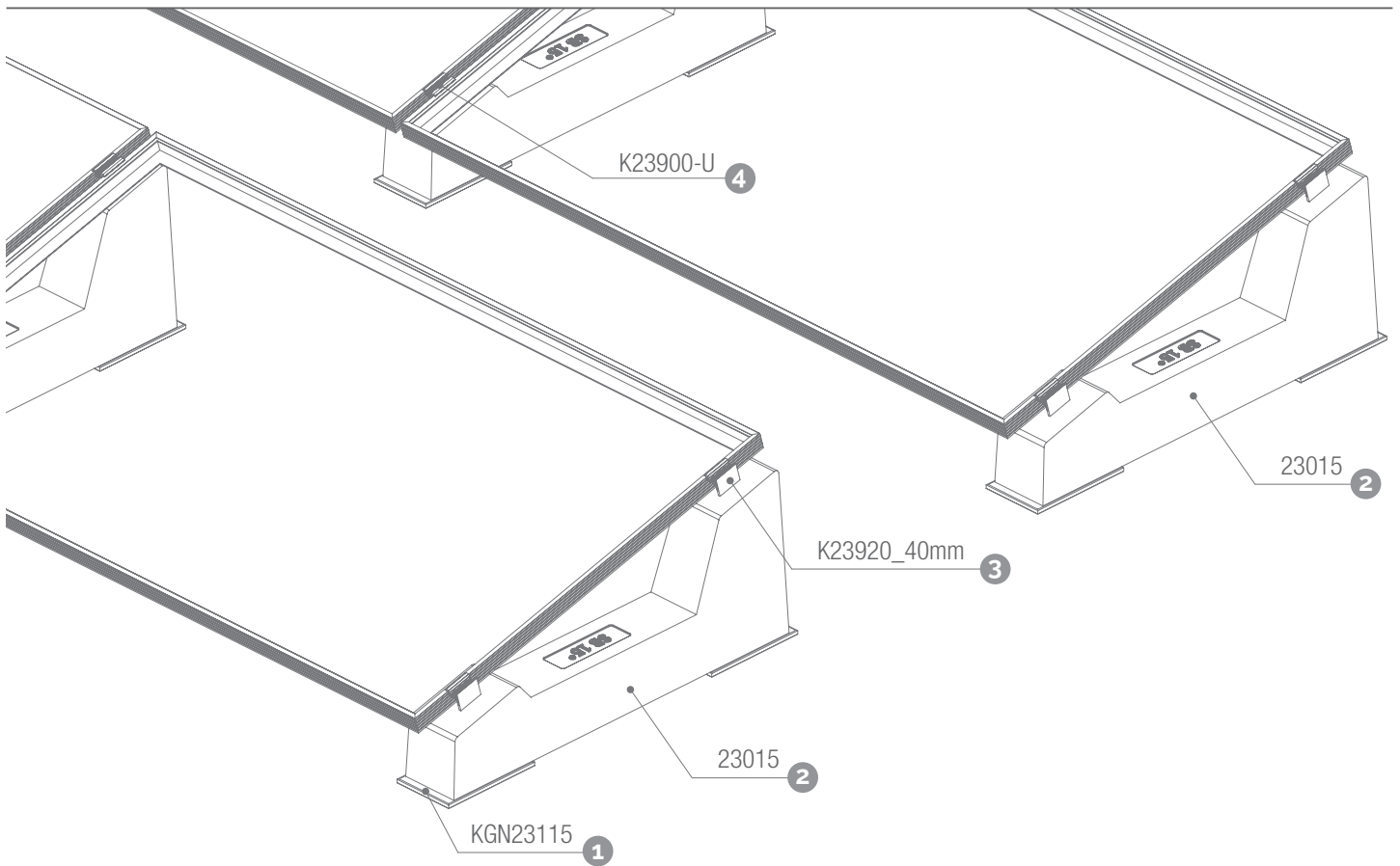
The Single-Row system offers a simple and highly versatile solution: available in a wide range of tilt angles from 0° to 30°, the ballasts allow for mounting of the panels vertically, horizontally, or with an East-West orientation. The mounting system enables flexible modulation of the distance between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

<b>Tilt angle</b>	15°
<b>Module positioning</b>	Horizontal - Short side / Vertical - Long side
<b>Ballast weight</b>	60 kg
<b>Quantity per pallet</b>	8 pieces
<b>Pallet dimensions</b>	990x720x690h mm
<b>Pallet weight</b>	610 kg
<b>Compatible accessories</b>	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)

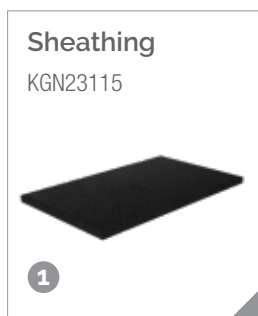
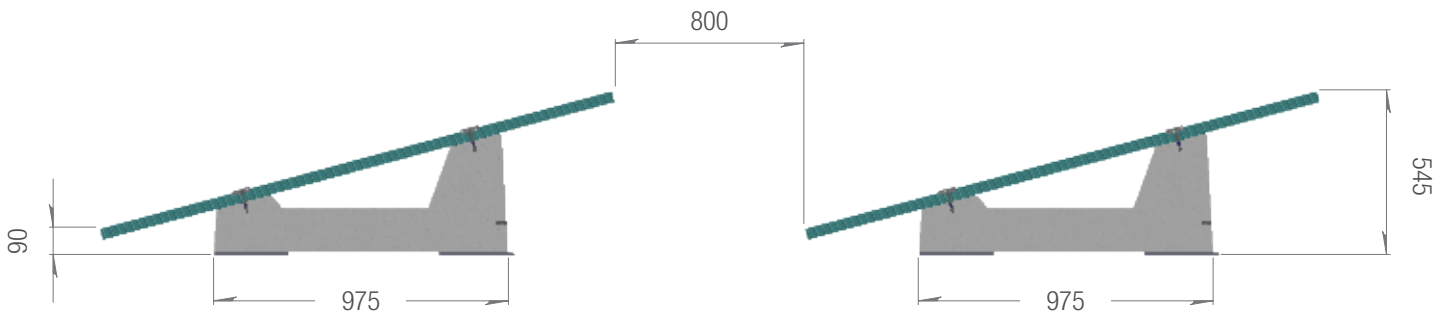
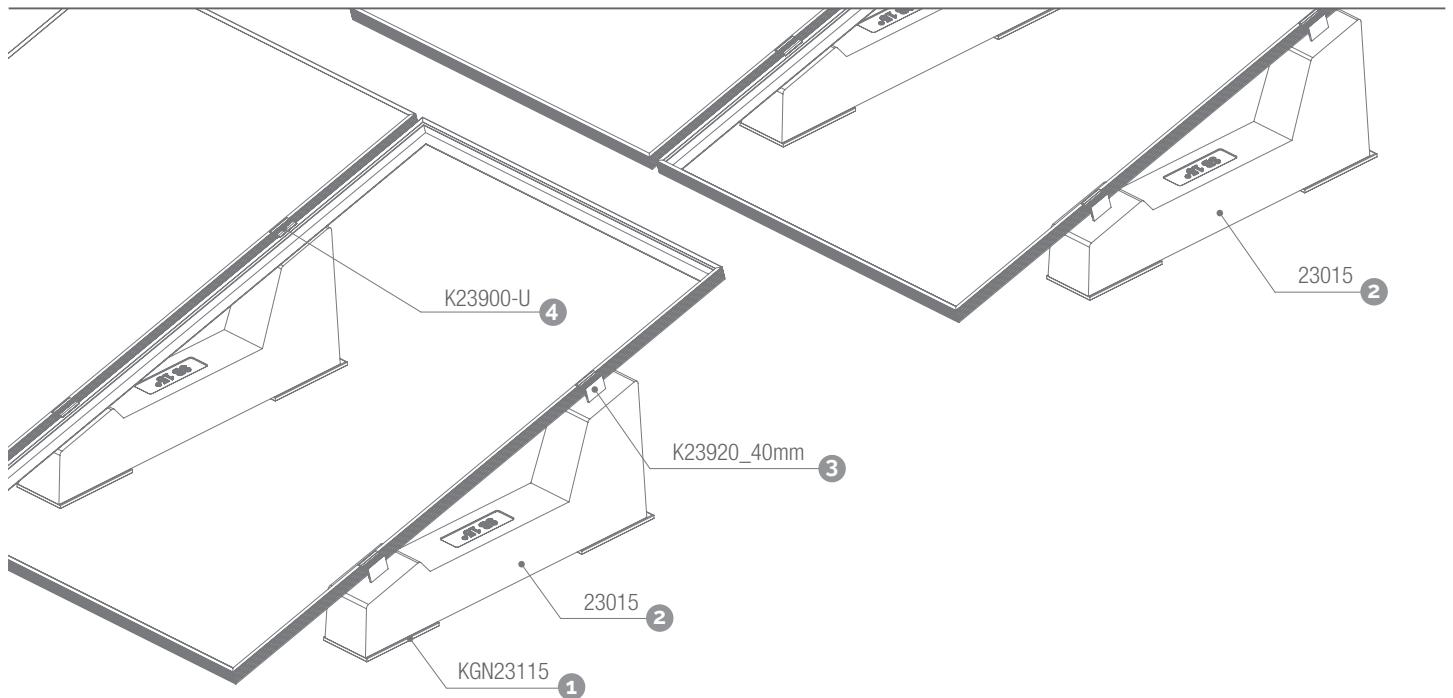
## BALLAST DIMENSIONS



## 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 20°

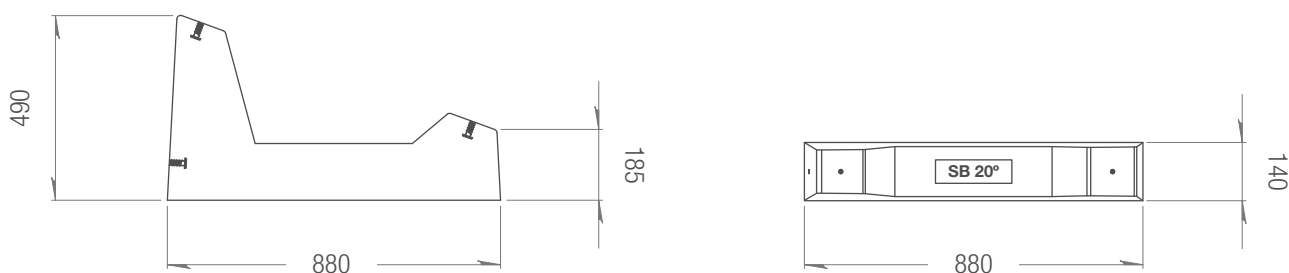
ART. 23020



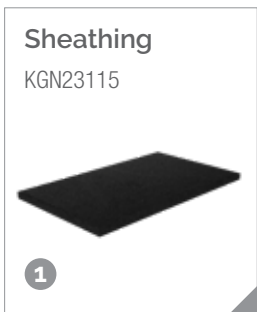
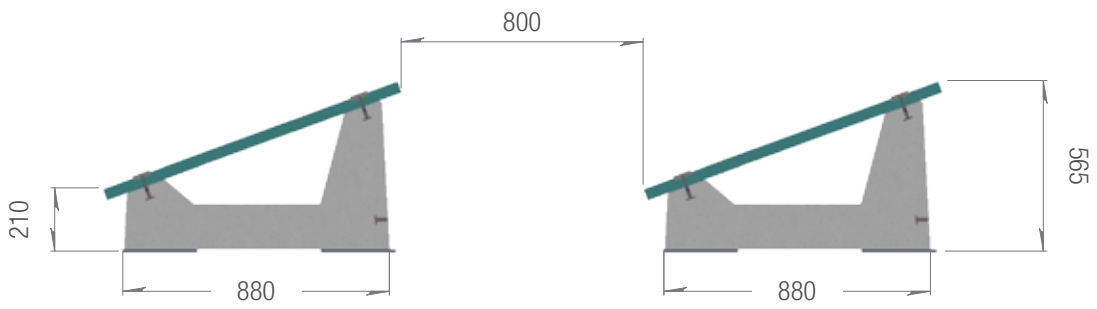
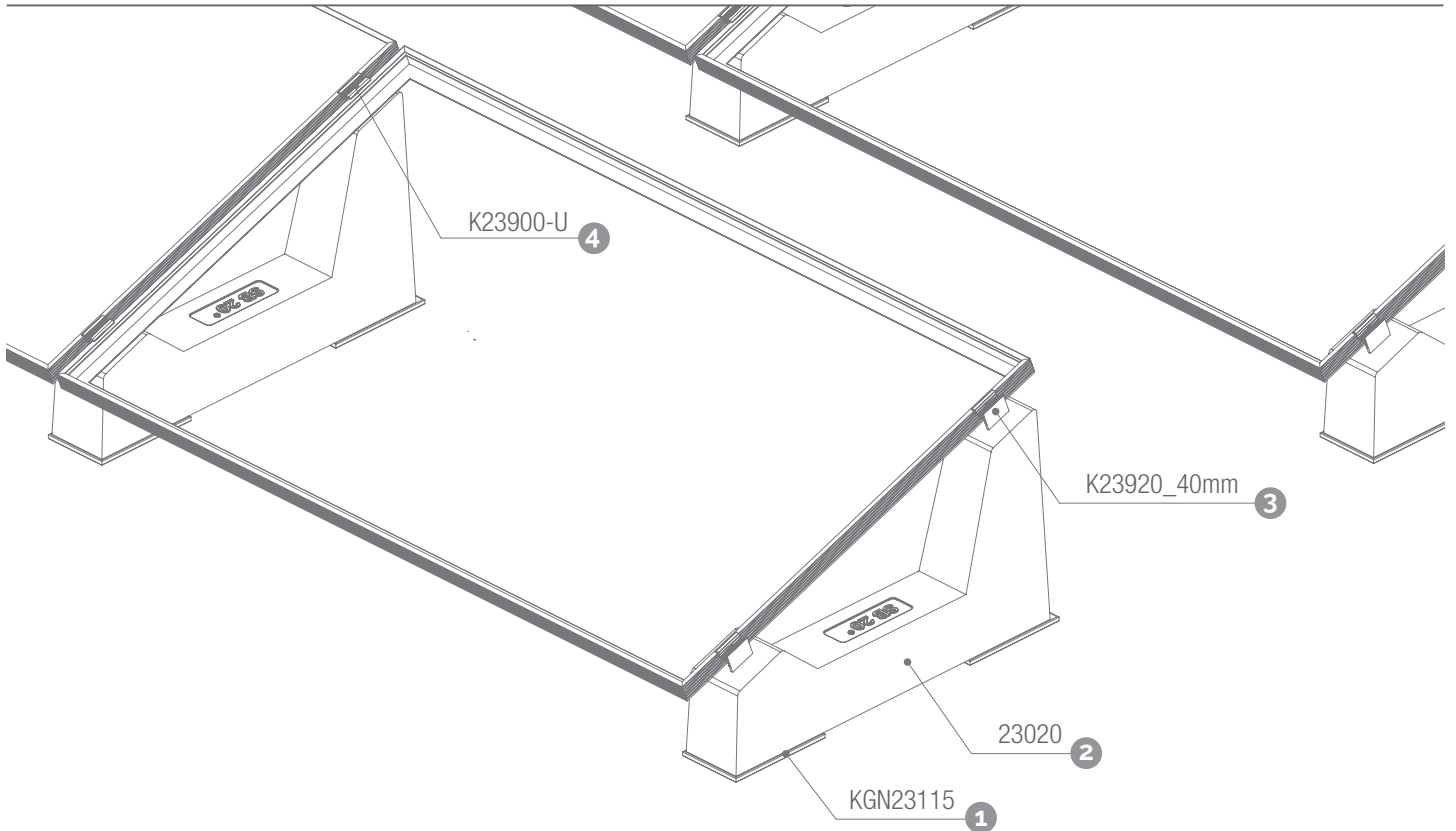
The Single-Row system offers a simple and highly versatile solution: available in a wide range of tilt angles from 0° to 30°, the ballasts allow for mounting of the panels vertically, horizontally, or with an East-West orientation. The mounting system enables flexible modulation of the distance between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

<b>Tilt angle</b>	20°
<b>Module positioning</b>	Horizontal - Short side / Vertical - Long side
<b>Ballast weight</b>	61 kg
<b>Quantity per pallet</b>	10 pieces
<b>Pallet dimensions</b>	700x900x890h mm
<b>Pallet weight</b>	626 kg
<b>Compatible accessories</b>	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)

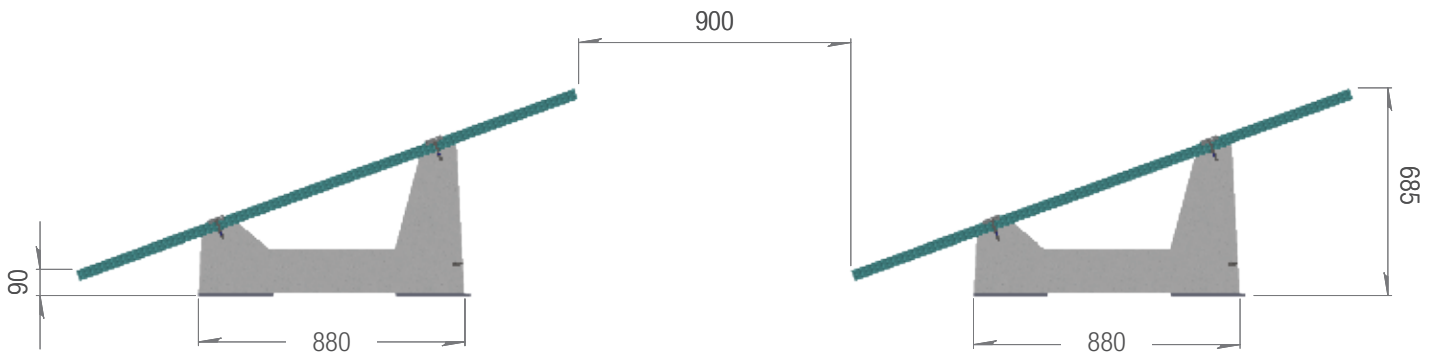
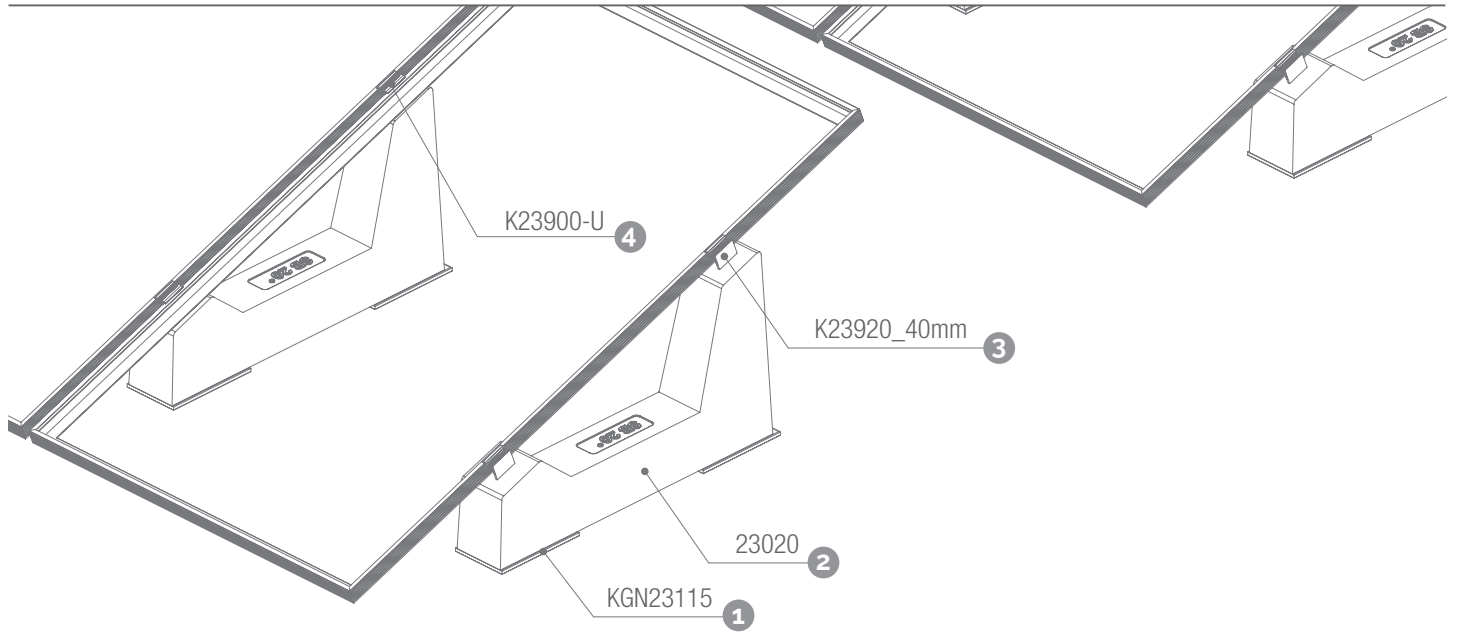
## BALLAST DIMENSIONS



## 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 30°

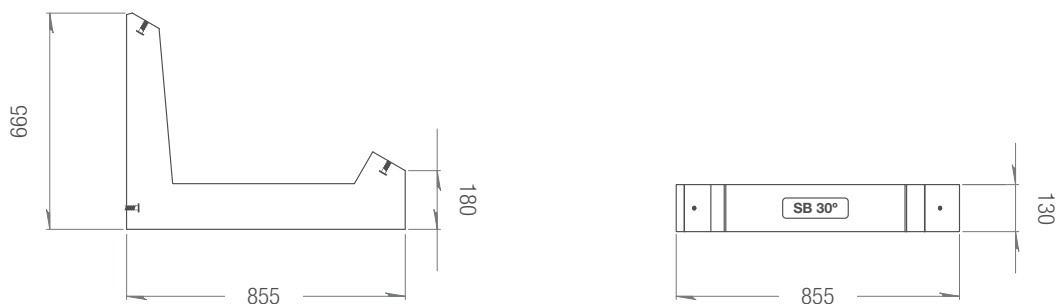
ART. 23030



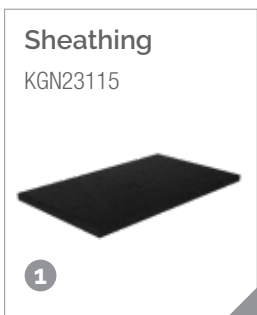
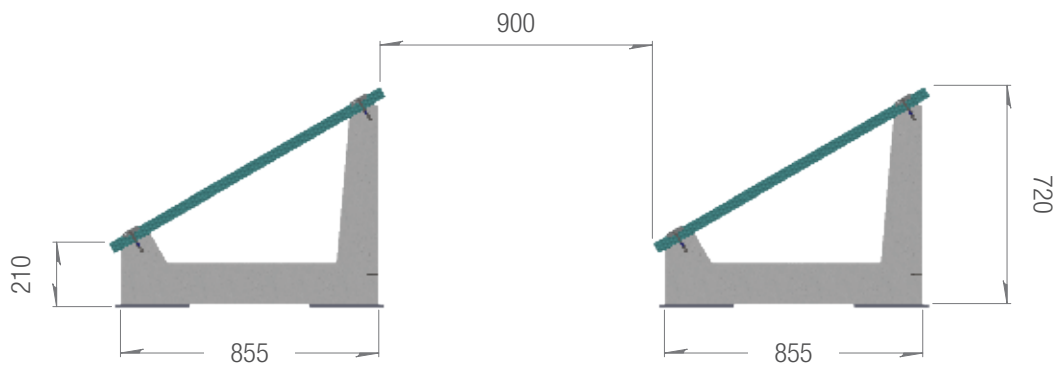
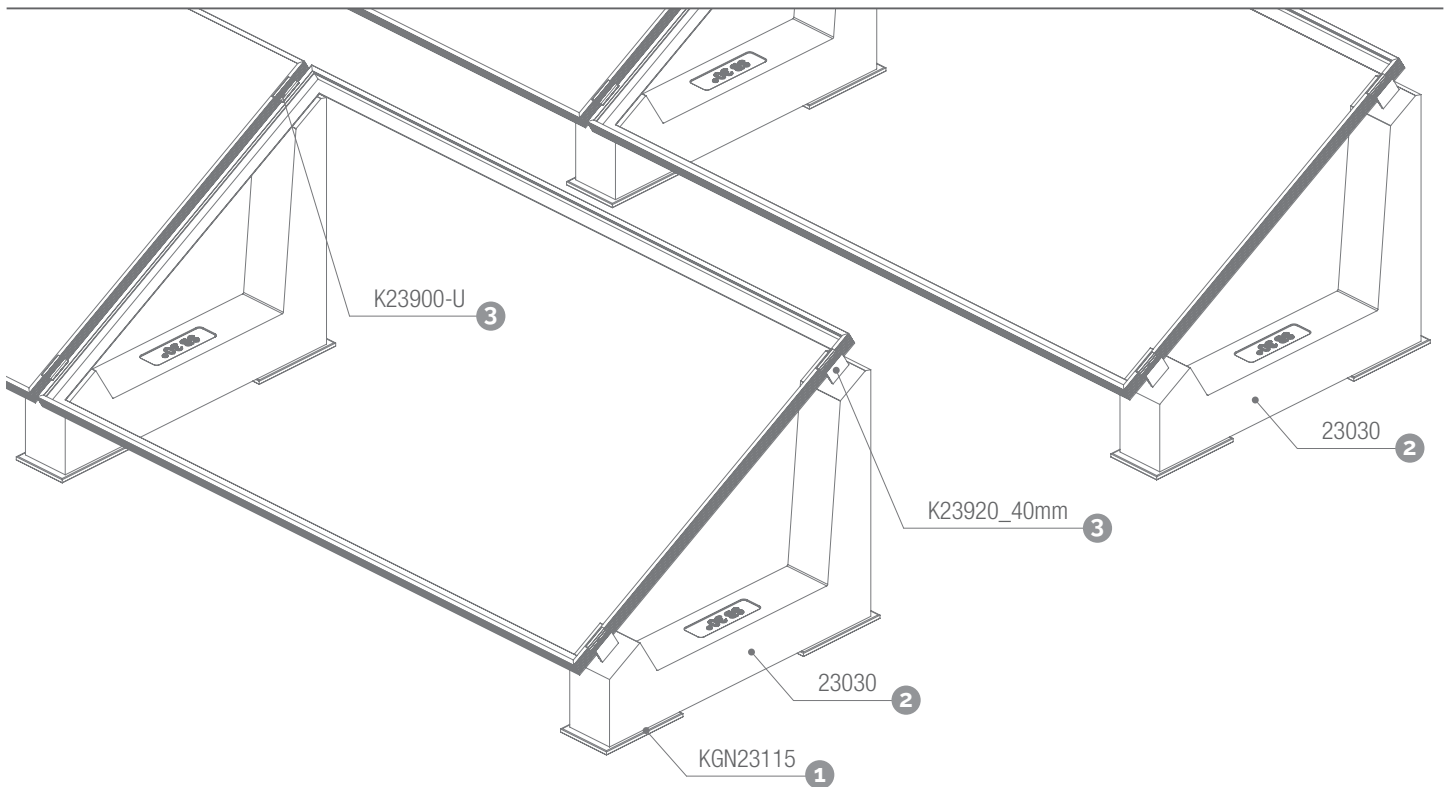
The Single-Row system offers a simple and highly versatile solution: available in a wide range of tilt angles from 0° to 30°, the ballasts allow for mounting of the panels vertically, horizontally, or with an East-West orientation. The mounting system enables flexible modulation of the distance between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

<b>Tilt angle</b>	30°
<b>Module positioning</b>	Horizontal - Short side / Vertical - Long side
<b>Ballast weight</b>	59 kg
<b>Quantity per pallet</b>	10 pieces
<b>Pallet dimensions</b>	860x860x838h mm
<b>Pallet weight</b>	604 kg
<b>Compatible accessories</b>	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

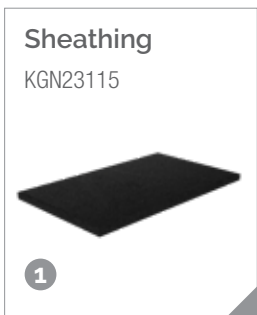
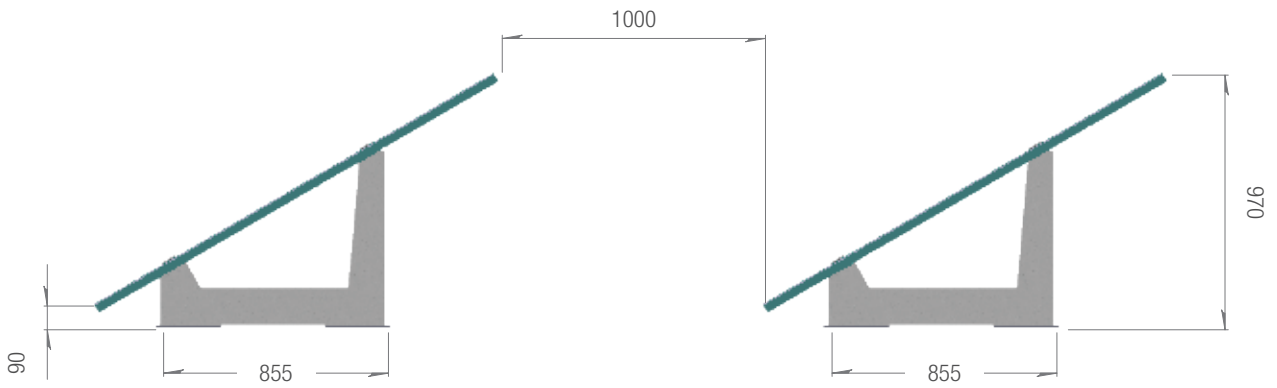
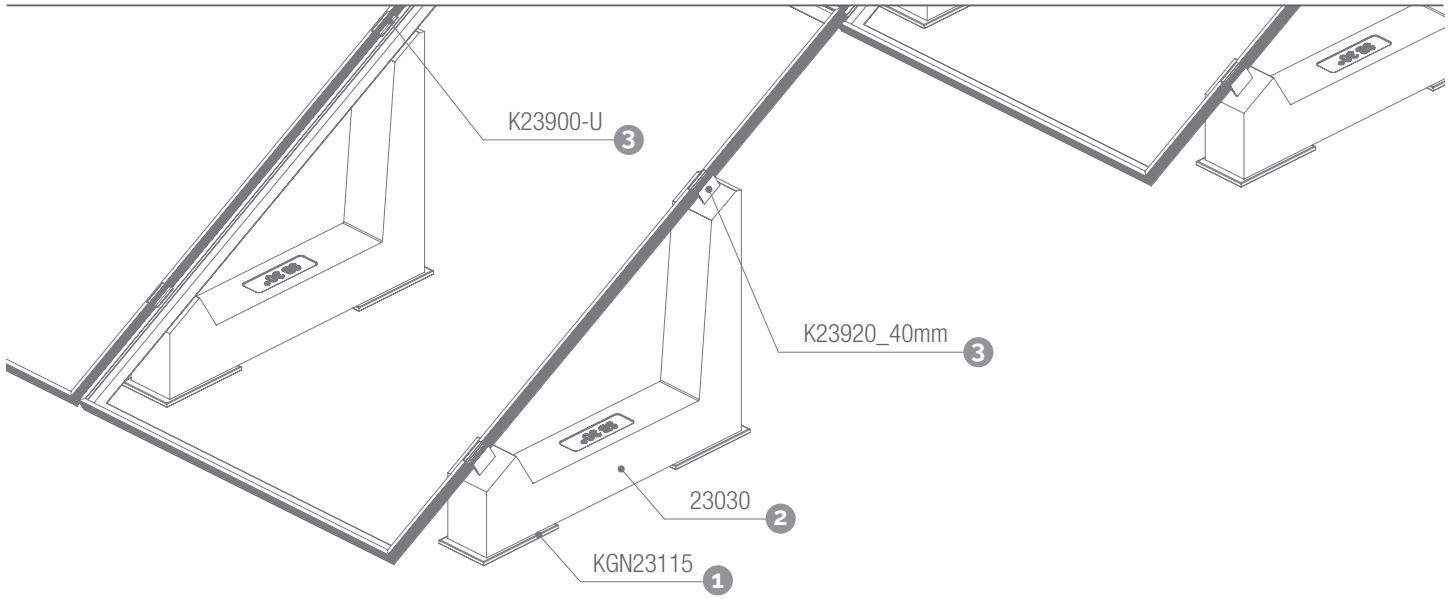


**HORIZONTAL MODULE INSTALLATION - Short Side**





## 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.

# SAIL 5°

ART. 23005/.2/.3/.4/.5/.6



The Sail system with a 5° tilt angle allows for the installation of six 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 easy and fast management of roof obstacles.

<b>Tilt angle</b>	5°
<b>Module positioning</b>	Horizontal – Short Side / Vertical – Long Side
<b>Compatible accessories</b>	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. 23005

<b>Ballast weight</b>	40 kg
<b>Quantity per pallet</b>	14 pieces
<b>Pallet dimensions</b>	1010x1020x417h mm
<b>Pallet weight</b>	573 kg

## BALLAST ART. 23005.2

<b>Ballast weight</b>	55 kg
<b>Quantity per pallet</b>	10 pieces
<b>Pallet dimensions</b>	950x730x627h mm
<b>Pallet weight</b>	560 kg

## BALLAST ART. 23005.3

<b>Ballast weight</b>	61 kg
<b>Quantity per pallet</b>	10 pieces
<b>Pallet dimensions</b>	950x730x838h mm
<b>Pallet weight</b>	620 kg

## BALLAST ART. 23005.4

<b>Ballast weight</b>	61 kg
<b>Quantity per pallet</b>	8 pieces
<b>Pallet dimensions</b>	970x590x1050h mm
<b>Pallet weight</b>	498 kg

## BALLAST ART. 23005.5

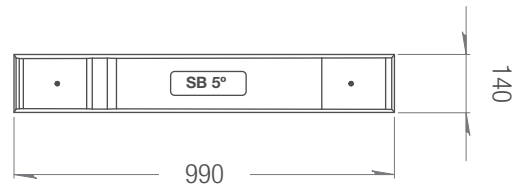
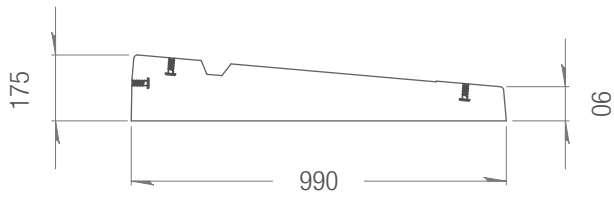
<b>Ballast weight</b>	61 kg
<b>Quantity per pallet</b>	8 pieces
<b>Pallet dimensions</b>	1100x670x629h mm
<b>Pallet weight</b>	500 kg

## BALLAST ART. 23005.6

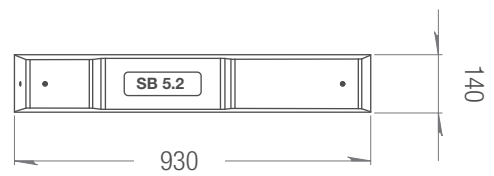
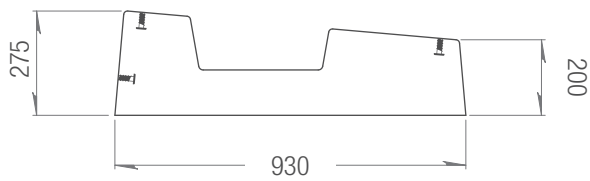
<b>Ballast weight</b>	67 kg
<b>Quantity per pallet</b>	8 pieces
<b>Pallet dimensions</b>	1100x770x629h mm
<b>Pallet weight</b>	548 kg

**BALLAST 23005 DIMENSIONS**

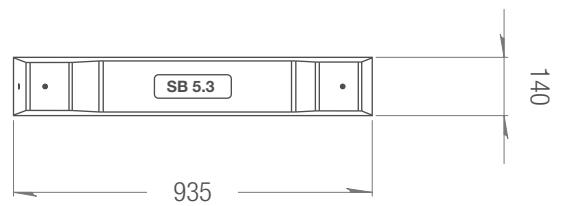
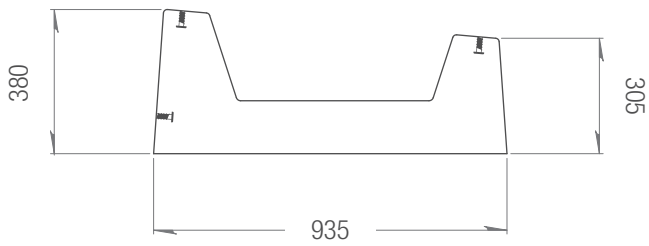
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**BALLAST 23005.2 DIMENSIONS**

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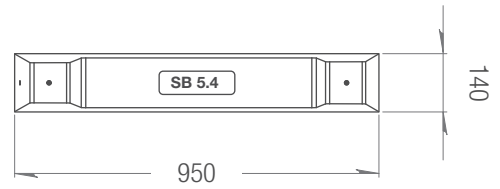
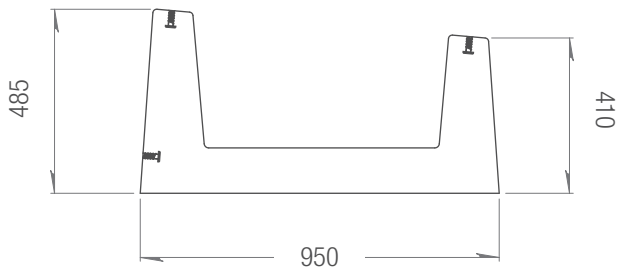
**BALLAST 23005.3 DIMENSIONS**

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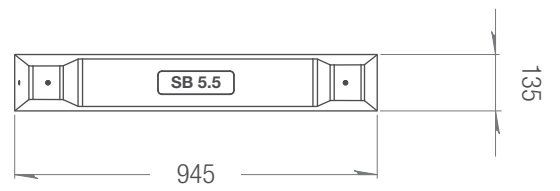
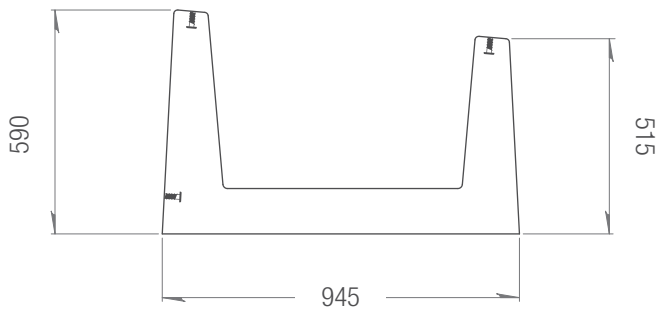


**BALLAST 23005.4 DIMENSIONS**

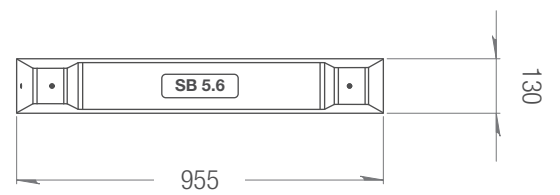
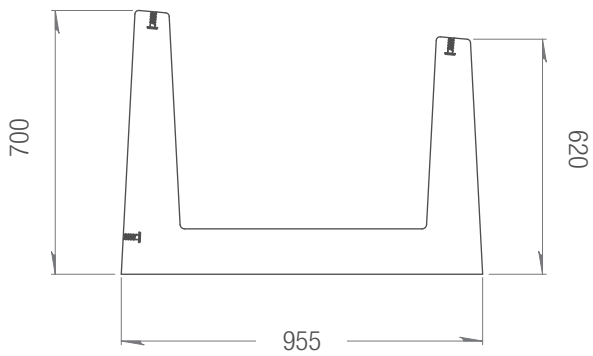
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**BALLAST 23005.5 DIMENSIONS**

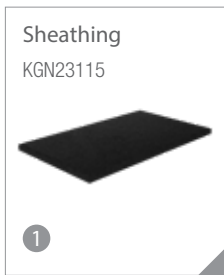
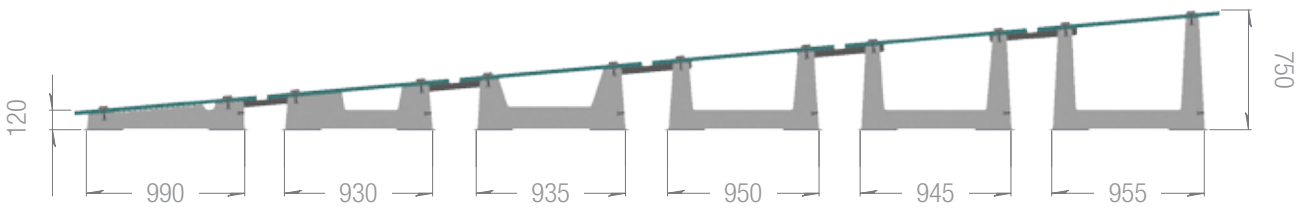
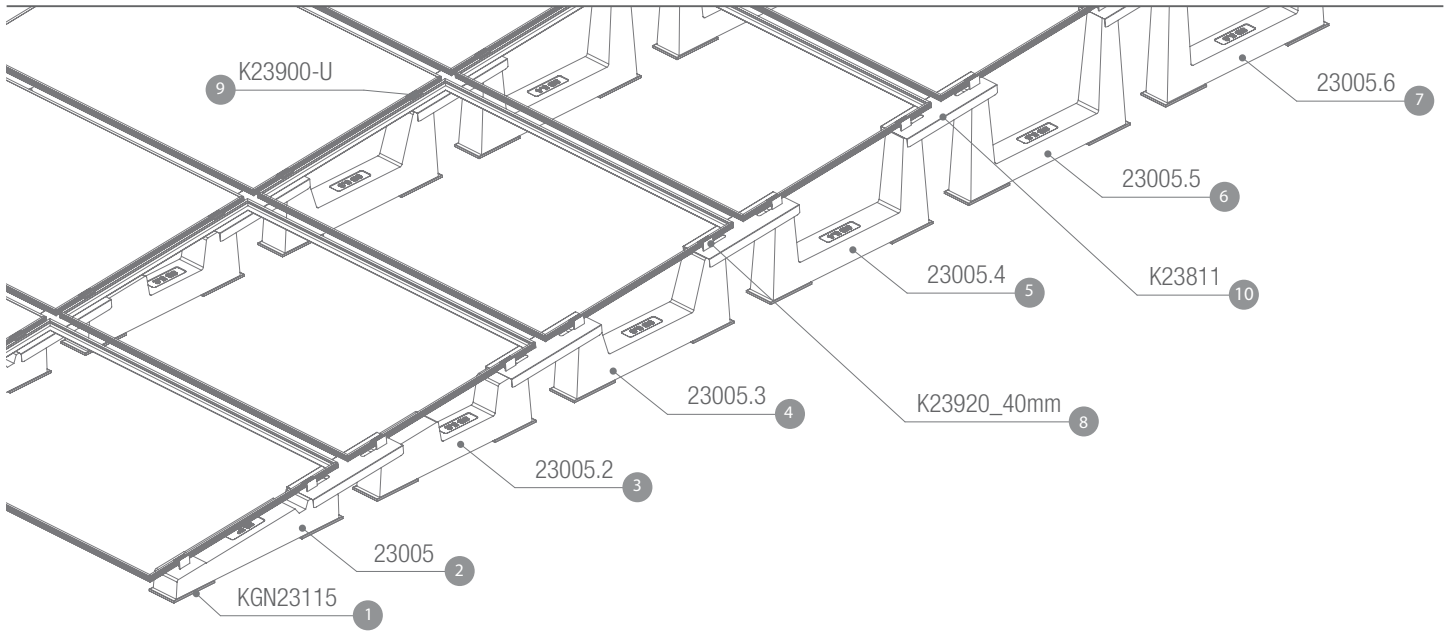
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**BALLAST 23005.6 DIMENSIONS**

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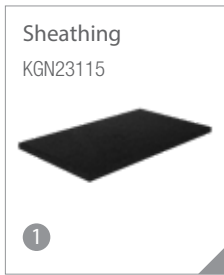
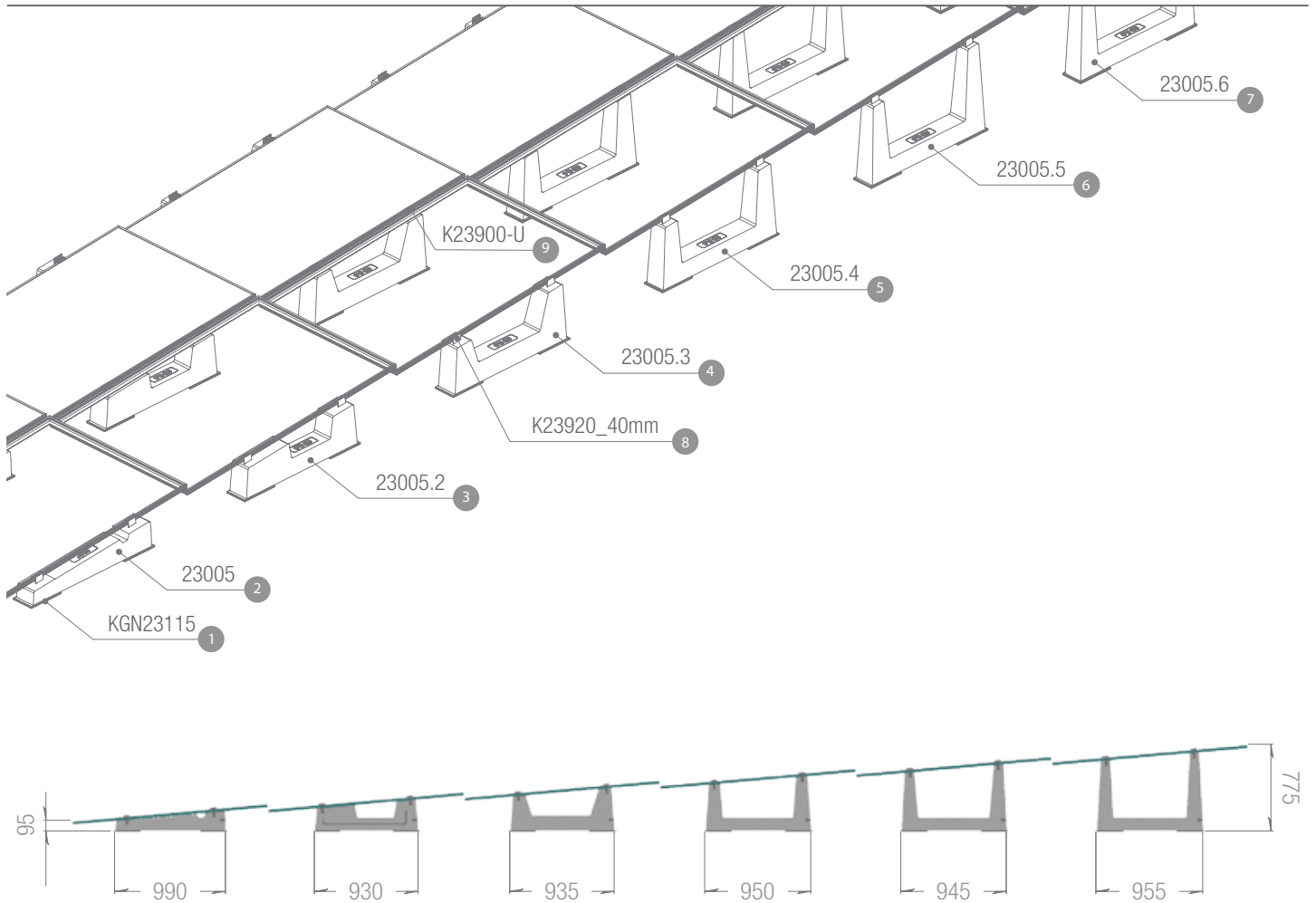
**HORIZONTAL MODULE INSTALLATION - Short Side**



**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 5°

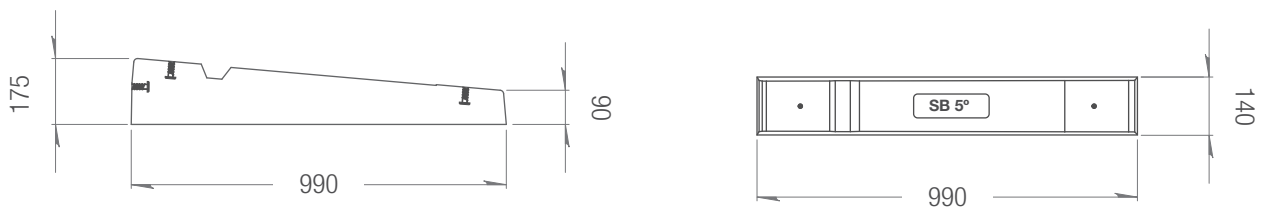
ART. 23005



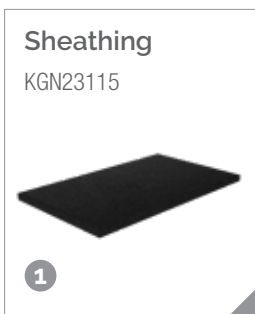
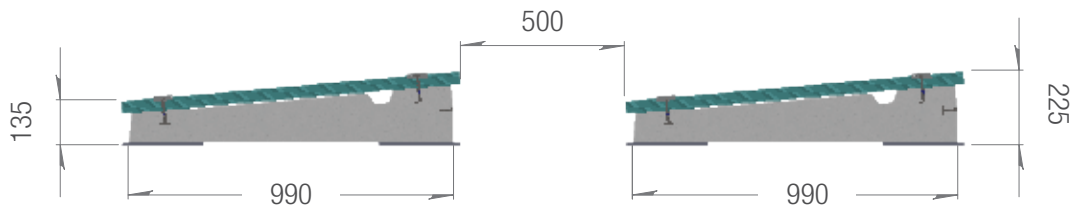
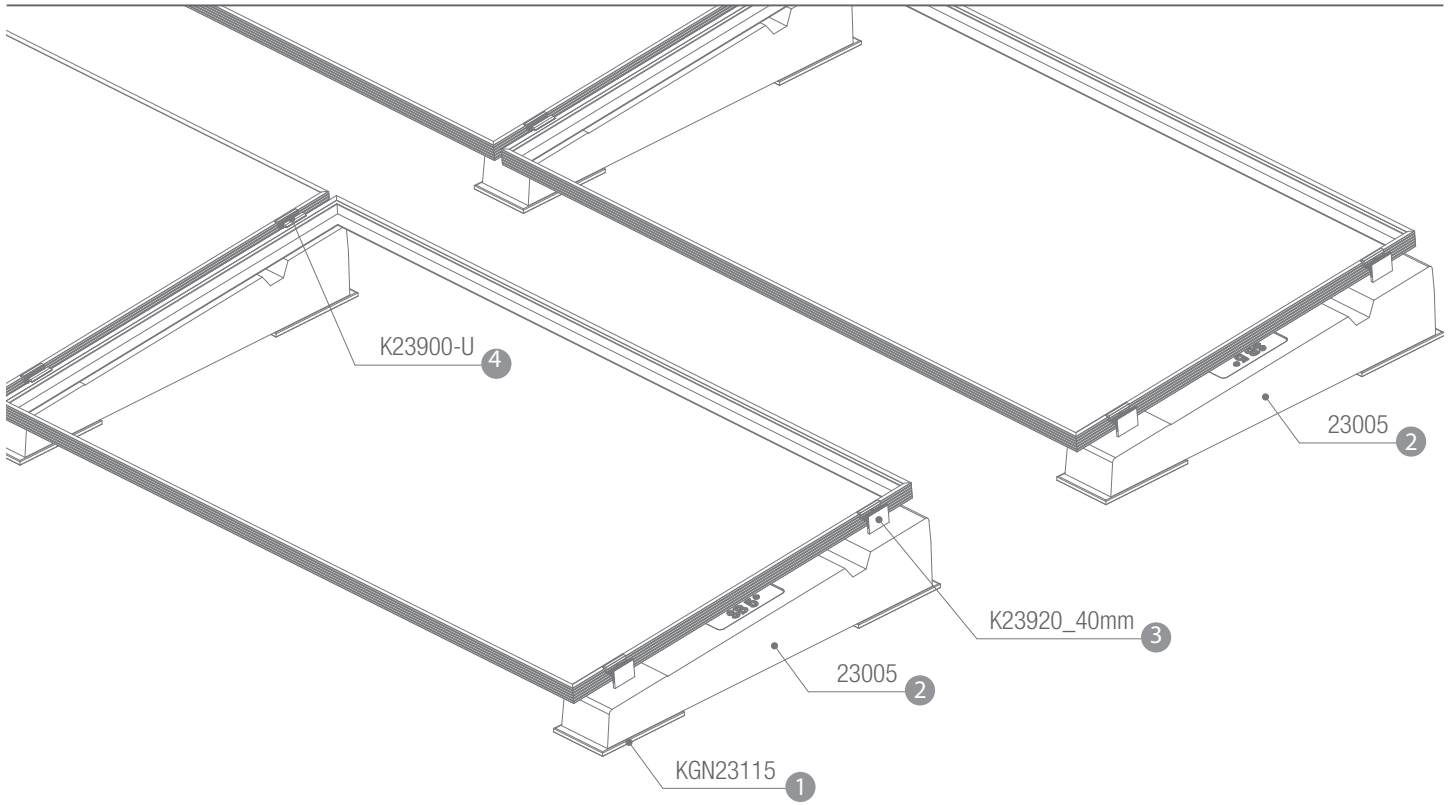
The Single-Row system offers a simple and highly versatile solution: available in a wide range of tilt angles from 0° to 30°, the ballasts allow for mounting of the panels vertically, horizontally, or with an East-West orientation. The mounting system enables flexible modulation of the distance between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

<b>Tilt angle</b>	5°
<b>Module positioning</b>	Horizontal - Short side / Vertical - Long side
<b>Ballast weight</b>	40 kg
<b>Quantity per pallet</b>	14 pieces
<b>Pallet dimensions</b>	1010x1020x417h mm
<b>Pallet weight</b>	573 kg
<b>Compatible accessories</b>	Sheathing (KGN23115), Universal clamps (K23900/U.50, K23920/U.50), PowerClamp plate (K23900/PWC.50, 23920/PWC), Junction plate (K23804), No-Flex (K23712), Cablowind (CW.CABLOWIND.95 - CW.CABLOWIND.160 - CW.CABLOWIND.185)

## BALLAST DIMENSIONS

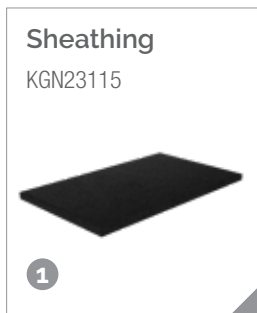
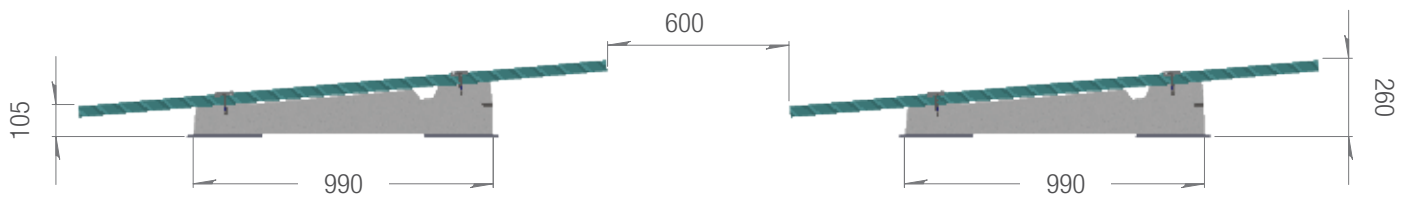
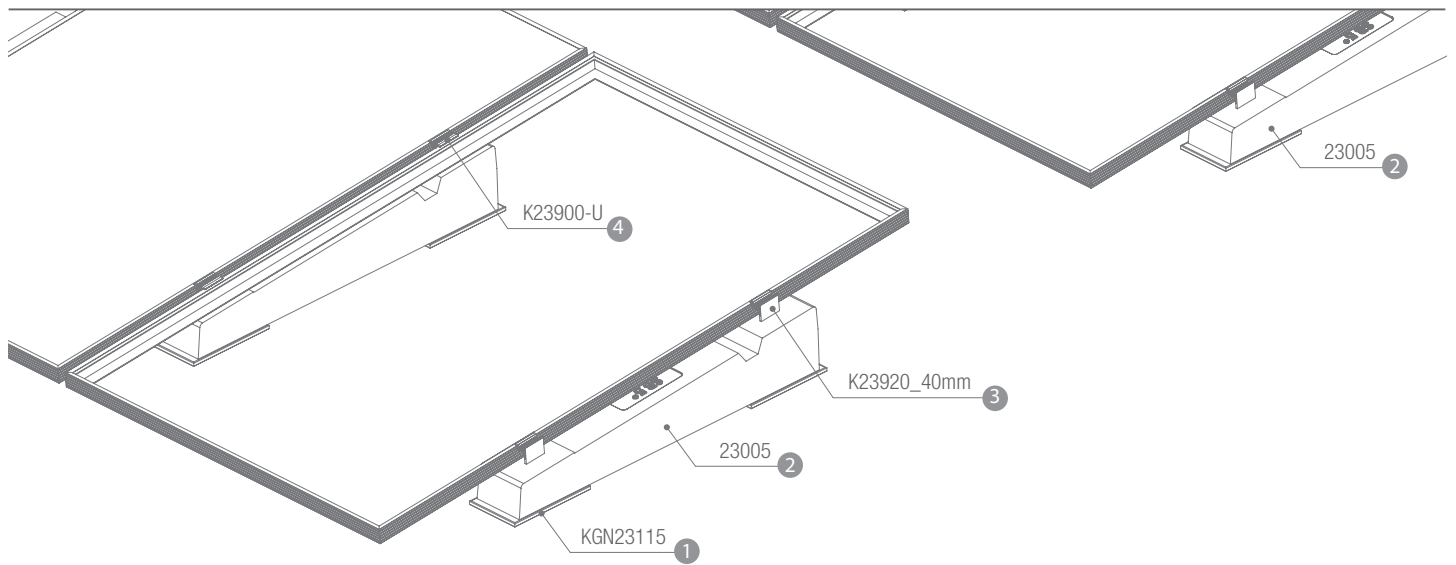


**HORIZONTAL MODULE INSTALLATION - Short Side**





## 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 5.2°

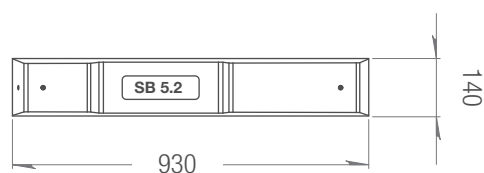
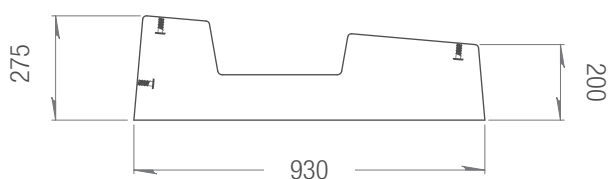
ART. 23005.2



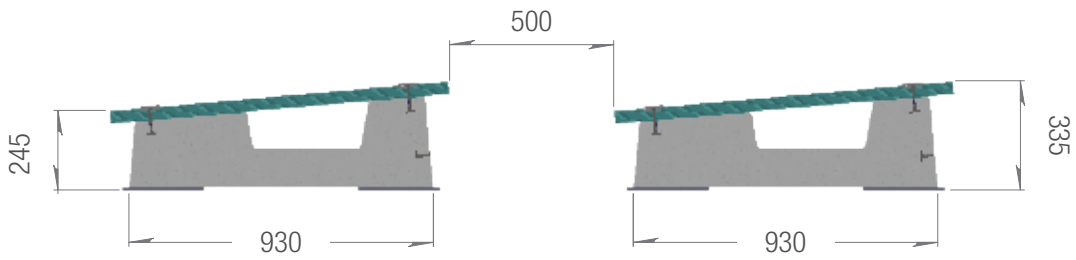
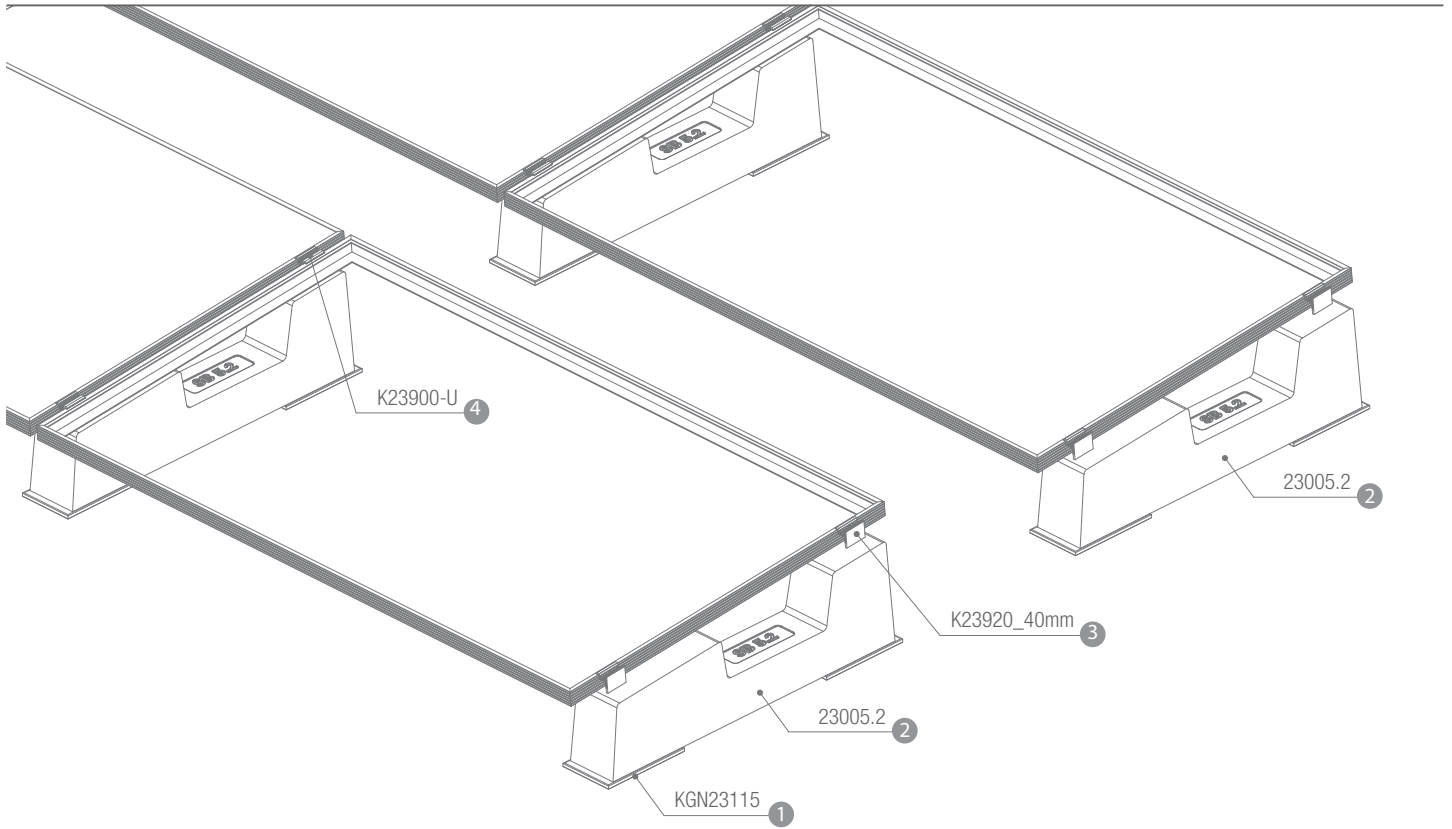
The Single-Row system offers a simple and highly versatile solution: available in a wide range of tilt angles from 0° to 30°, the ballasts allow for mounting of the panels vertically, horizontally, or with an East-West orientation. The mounting system enables flexible modulation of the distance between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

<b>Tilt angle</b>	5.2°
<b>Module positioning</b>	Horizontal - Short side / Vertical - Long side
<b>Ballast weight</b>	55 kg
<b>Quantity per pallet</b>	10 pieces
<b>Pallet dimensions</b>	950x730x627h mm
<b>Pallet weight</b>	560 kg
<b>Compatible accessories</b>	Sheathing (KGN23115), Universal clamps (K23900/U.50, K23920/U.50), PowerClamp plate (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)

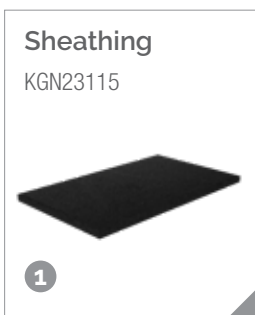
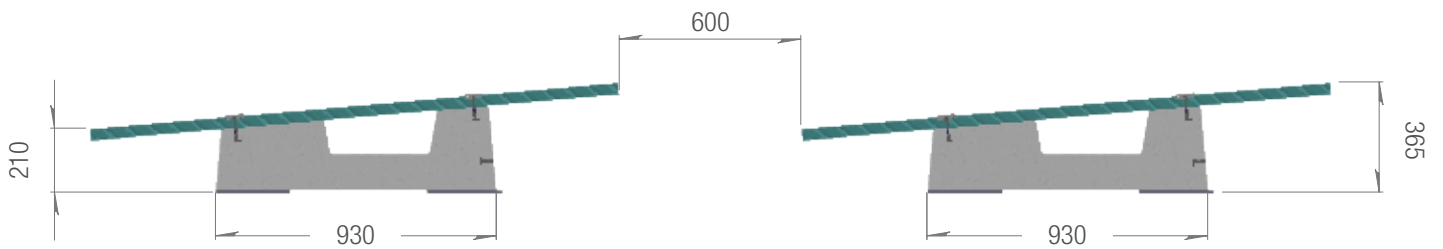
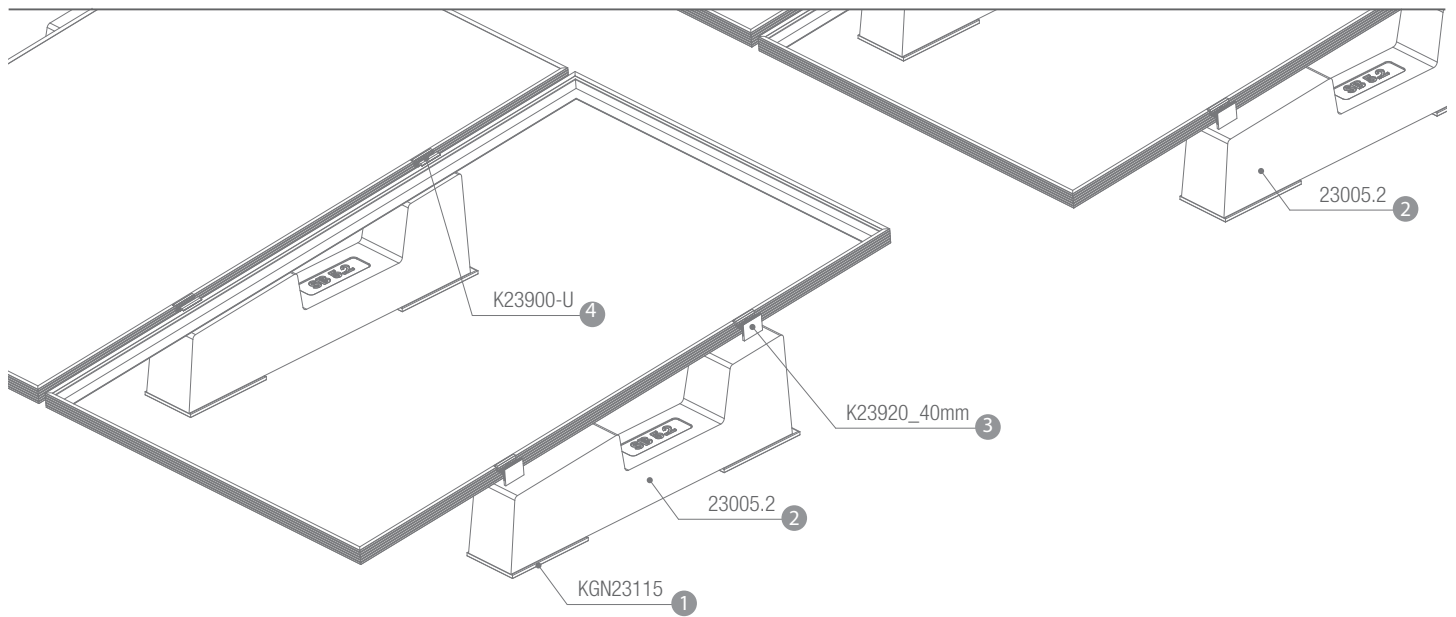
## BALLAST DIMENSIONS



**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 5.3°

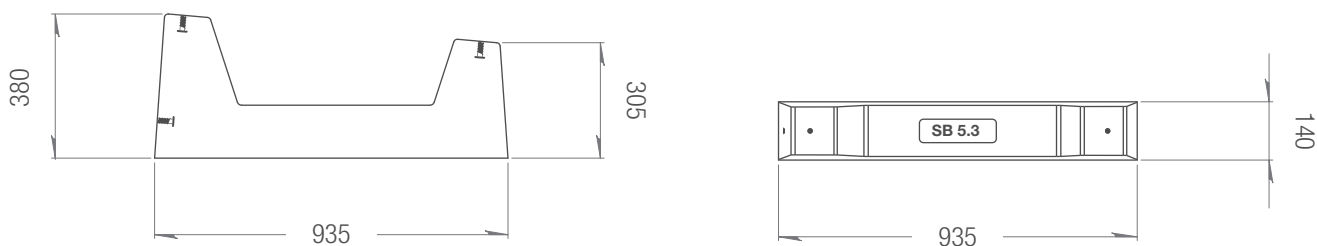
ART. 23005.3



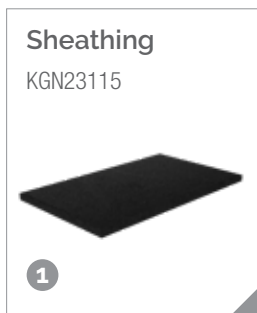
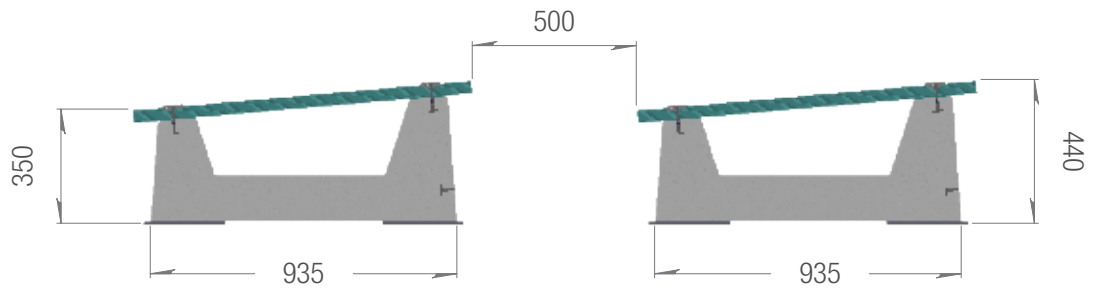
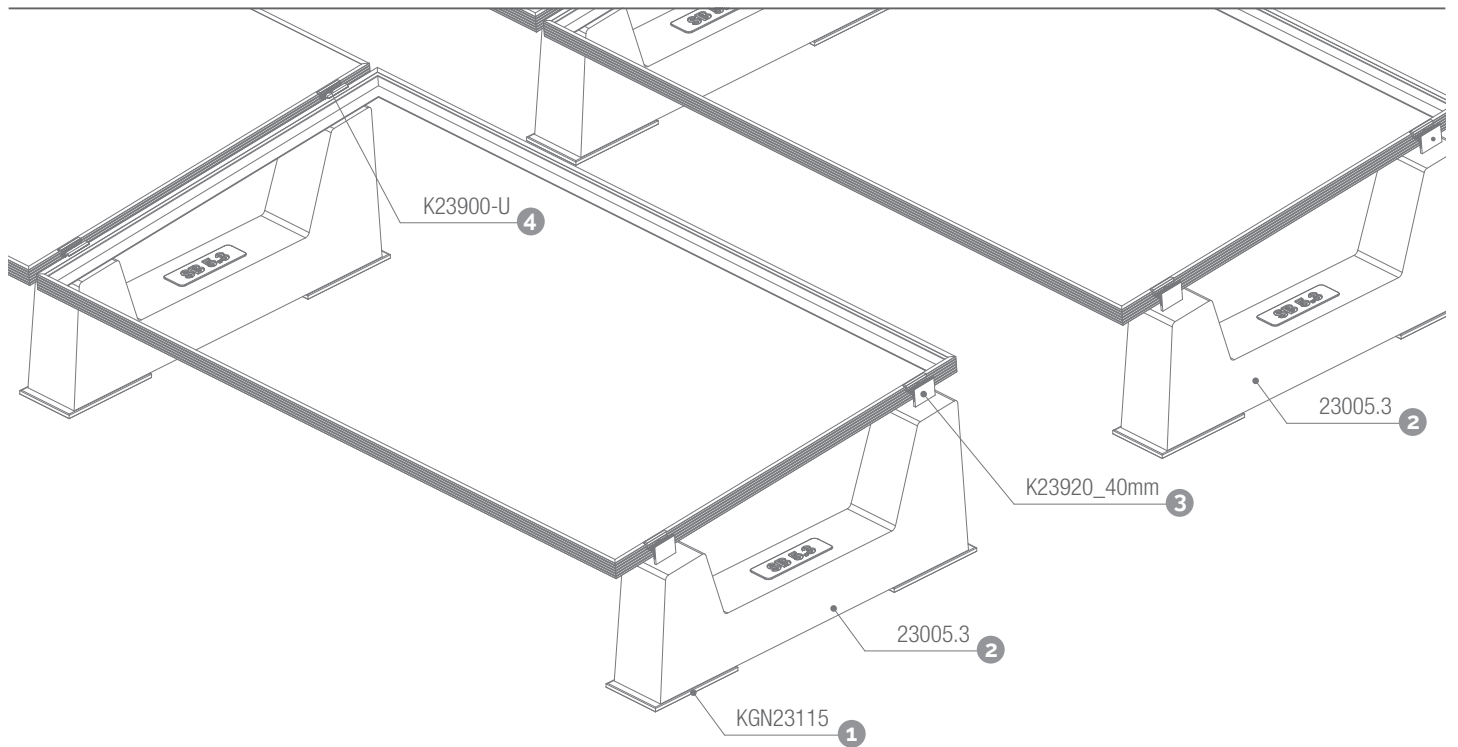
The Single-Row system offers a simple and highly versatile solution: available in a wide range of tilt angles from 0° to 30°, the ballasts allow for mounting of the panels vertically, horizontally, or with an East-West orientation. The mounting system enables flexible modulation of the distance between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

<b>Tilt angle</b>	5.3°
<b>Module positioning</b>	Horizontal - Short side / Vertical - Long side
<b>Ballast weight</b>	61 kg
<b>Quantity per pallet</b>	10 pieces
<b>Pallet dimensions</b>	950x730x838h mm
<b>Pallet weight</b>	620 kg
<b>Compatible accessories</b>	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)

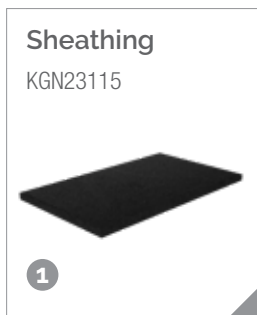
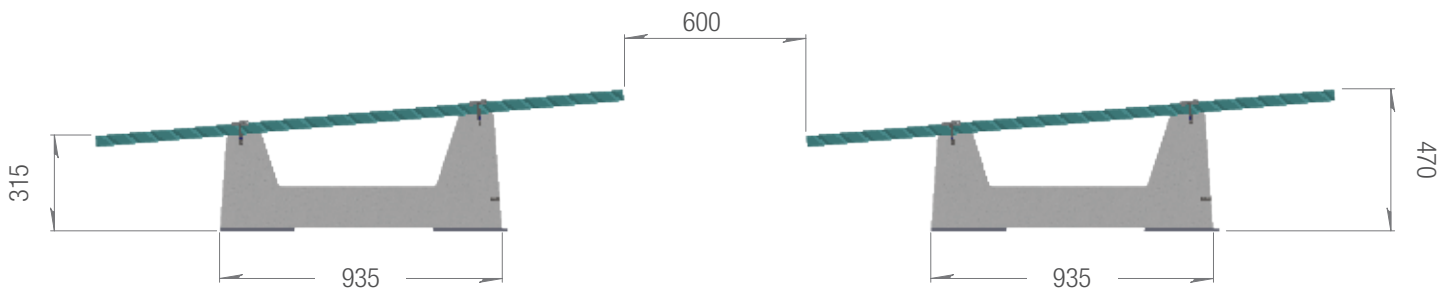
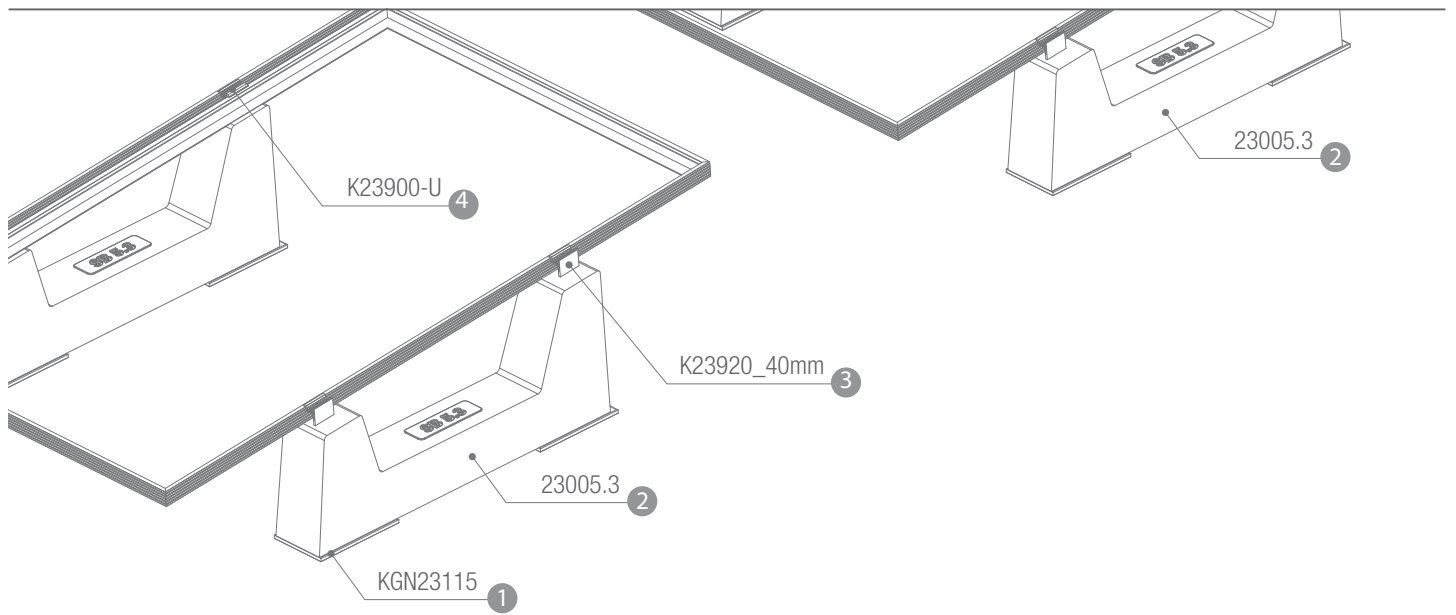
## BALLAST DIMENSIONS



## 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.

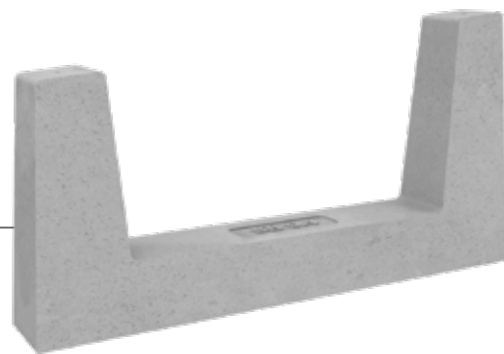
The measurements are based on the use of a panel with dimensions of 1722mm x 1134mm x 35mm. They vary depending on the size of the panel used.

Follow Sun Ballast®'s assembly instructions.

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

# BALLAST 5.4°

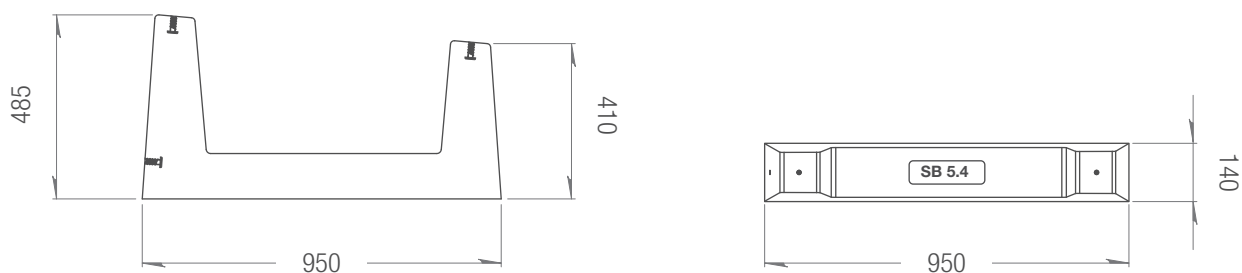
ART. 23005.4



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.

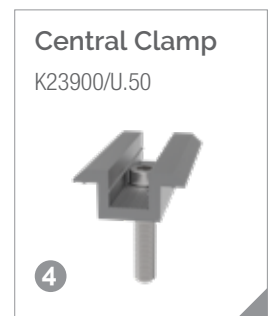
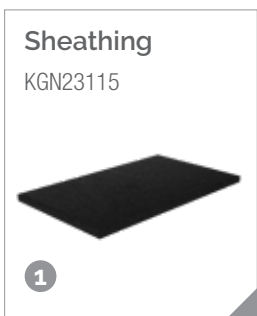
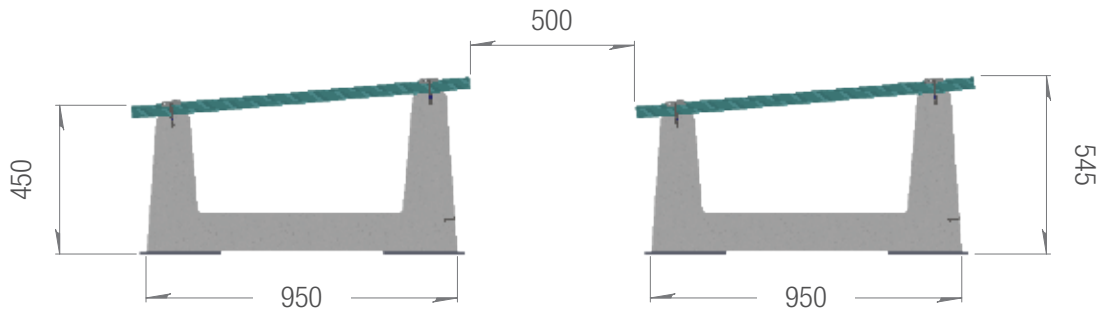
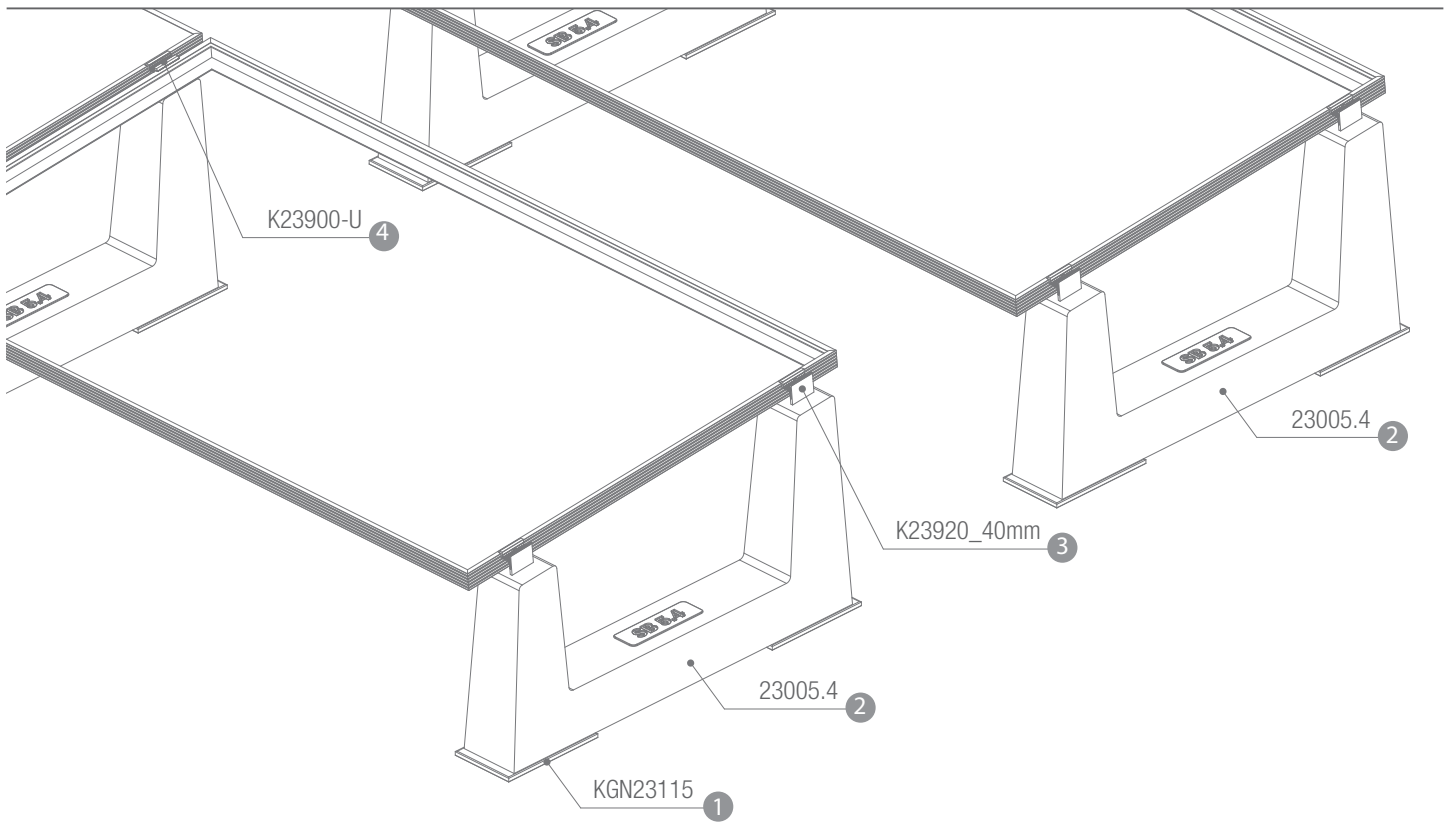
<b>Tilt angle</b>	5.4°
<b>Module positioning</b>	Horizontal - Short side / Vertical - Long side
<b>Ballast weight</b>	61 kg
<b>Quantity per pallet</b>	8 pieces
<b>Pallet dimensions</b>	970x590x1050h mm
<b>Pallet weight</b>	498 kg
<b>Compatible accessories</b>	Sheathing (KGN23115), Universal clamps (K23900/U.50, 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

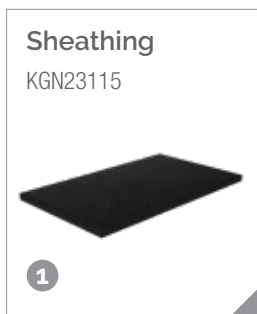
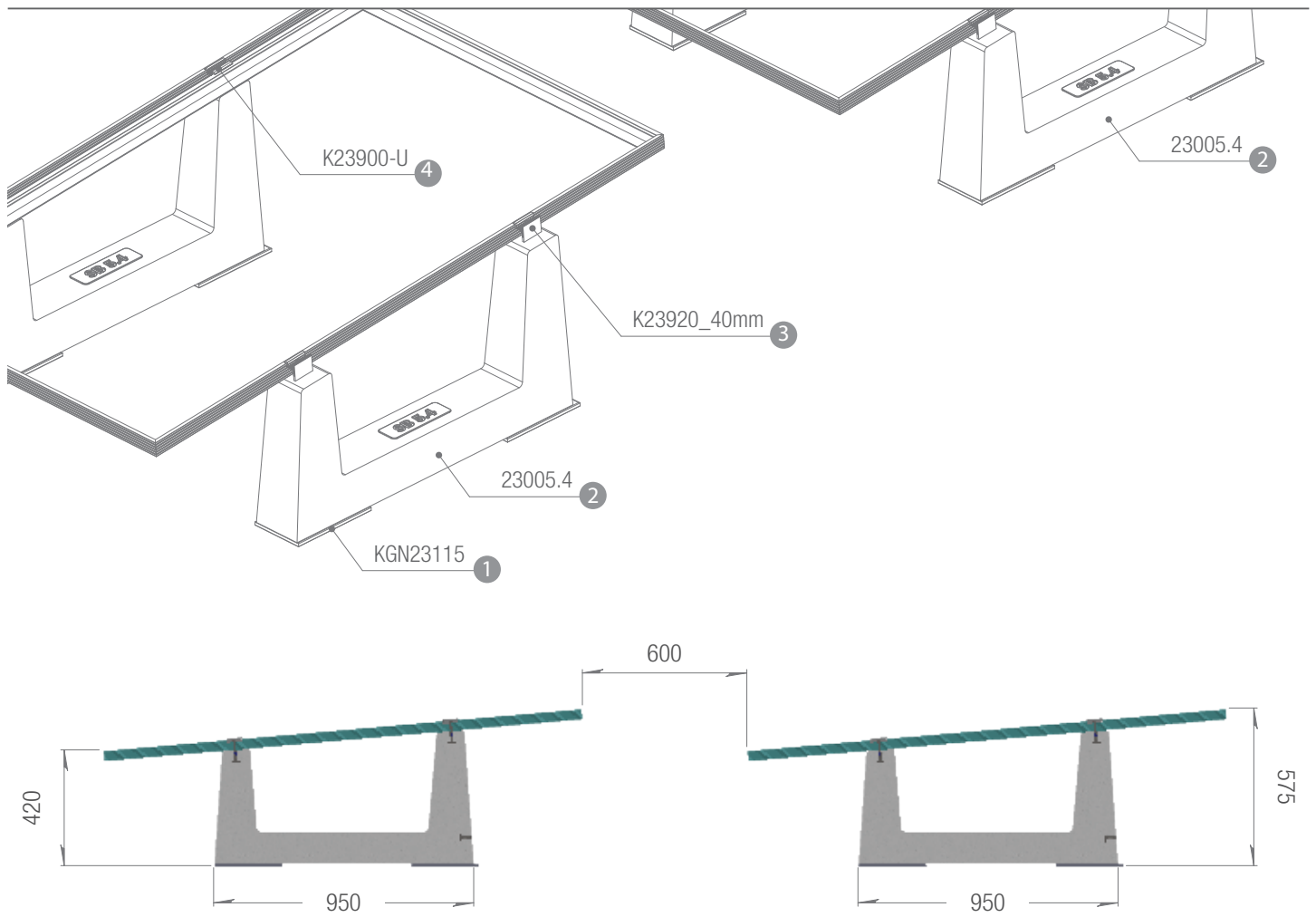




## HORIZONTAL MODULE INSTALLATION - Short Side



## 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 5.5°

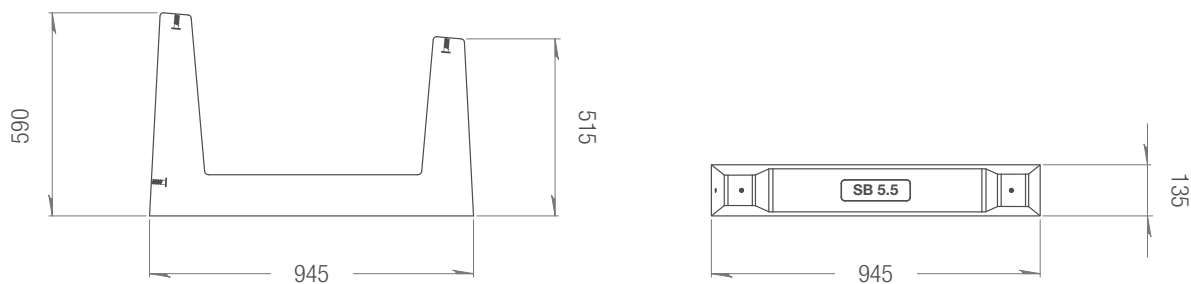
ART. 23005.5



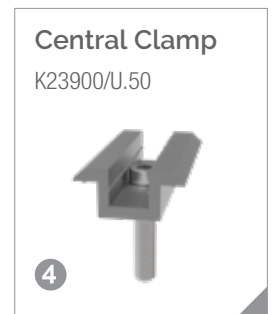
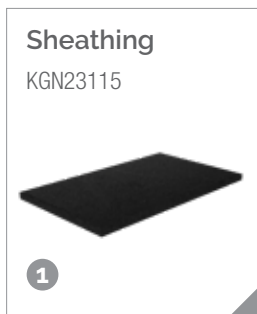
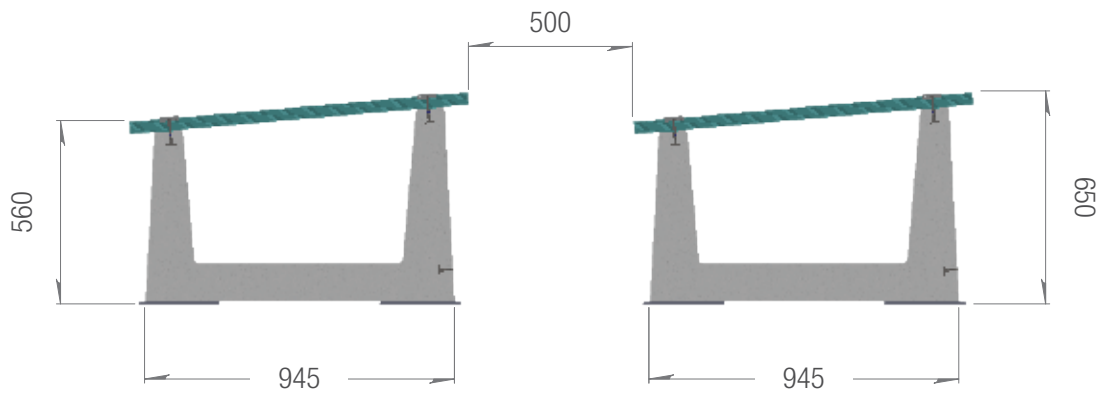
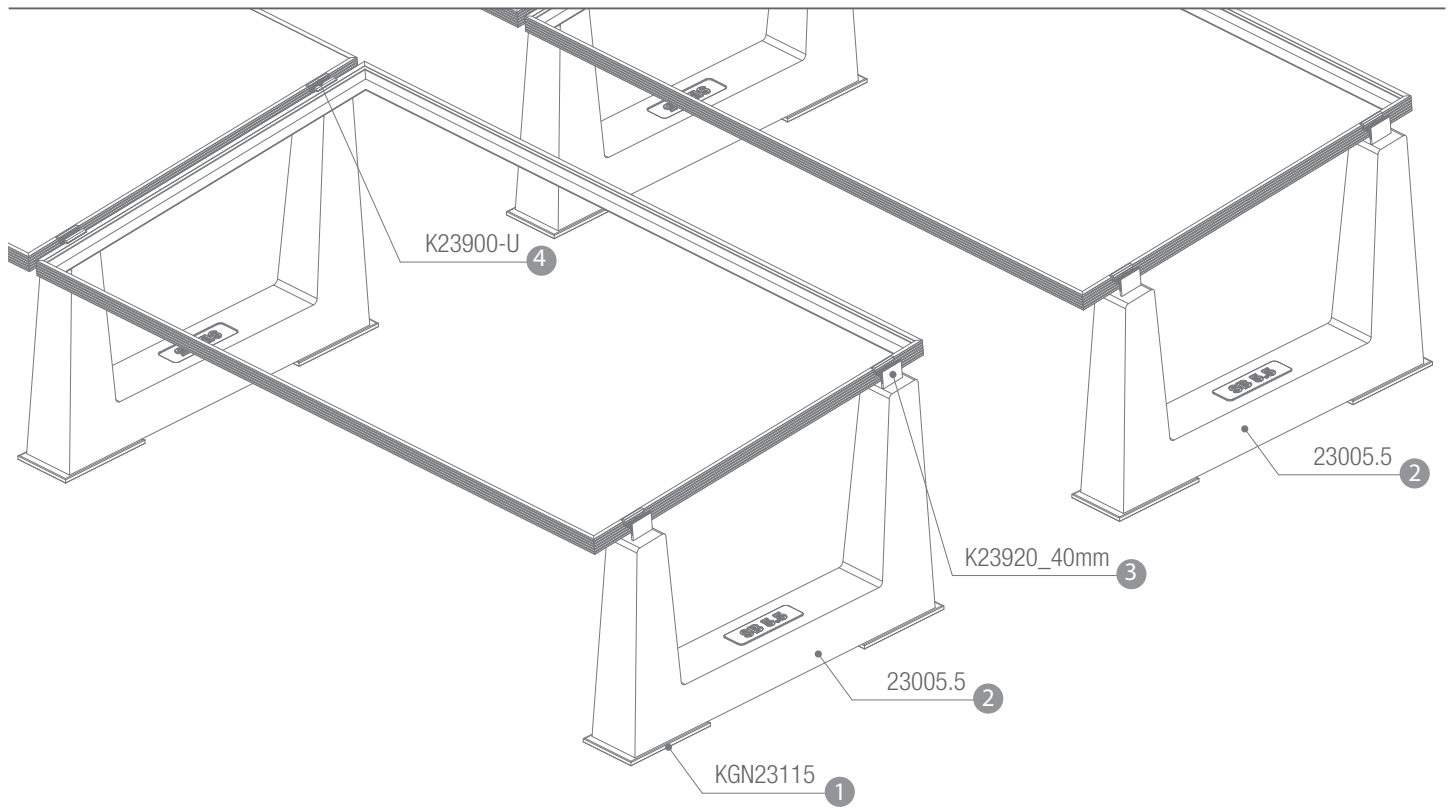
The Single-Row system offers a simple and highly versatile solution: available in a wide range of tilt angles from 0° to 30°, the ballasts allow for mounting of the panels vertically, horizontally, or with an East-West orientation. The mounting system enables flexible modulation of the distance between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

<b>Tilt angle</b>	5.5°
<b>Module positioning</b>	Horizontal - Short side / Vertical - Long side
<b>Ballast weight</b>	61 kg
<b>Quantity per pallet</b>	8 pieces
<b>Pallet dimensions</b>	1100x670x629h mm
<b>Pallet weight</b>	500 kg
<b>Compatible accessories</b>	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)

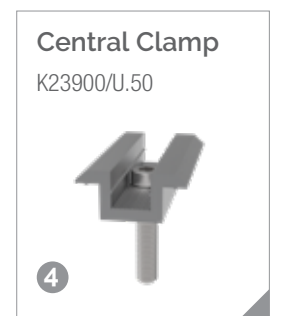
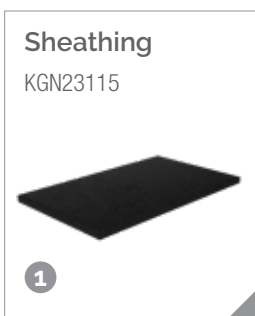
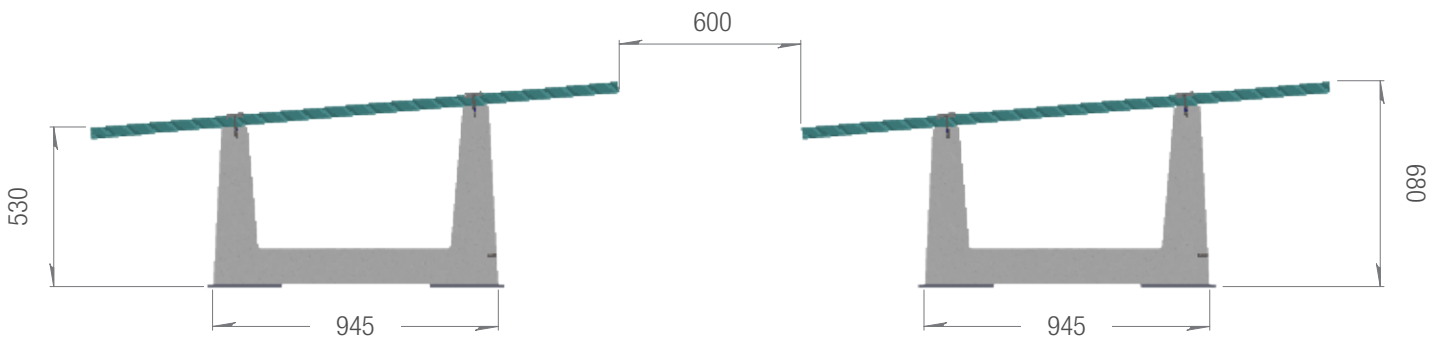
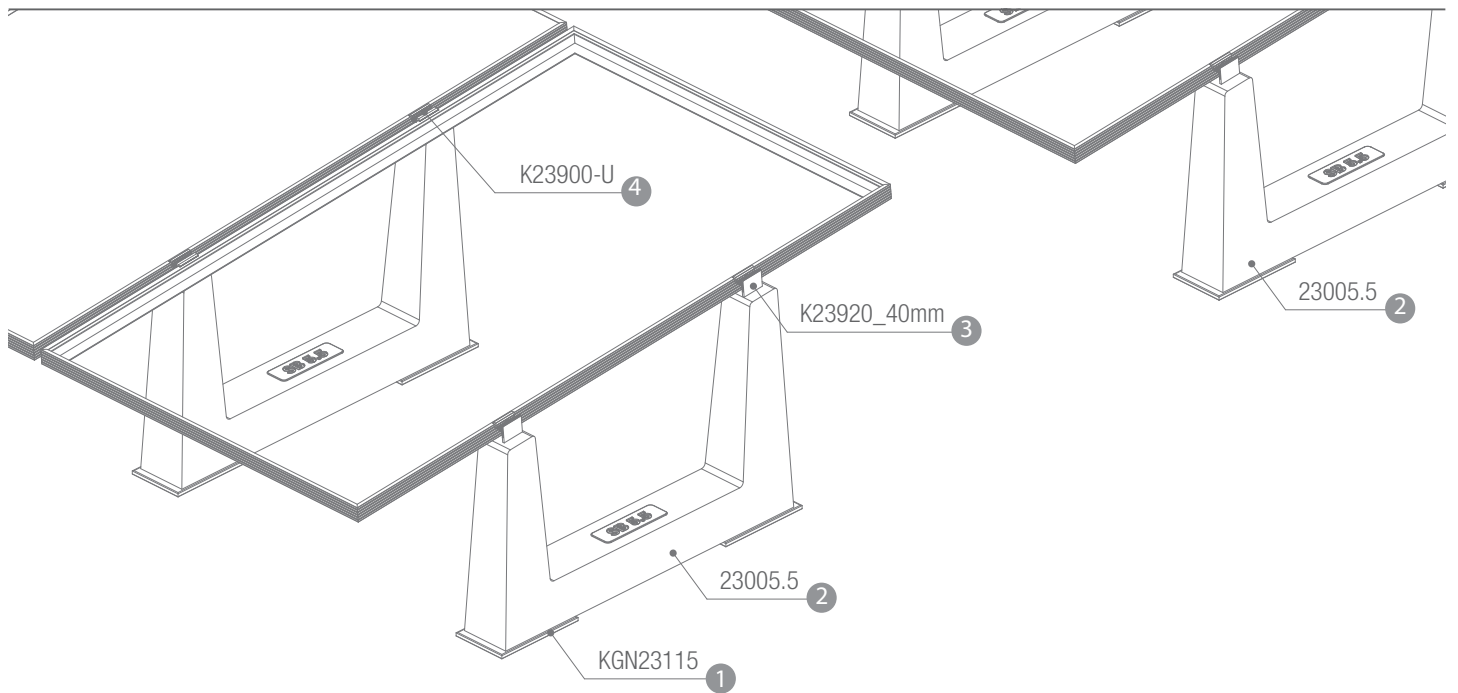
## BALLAST DIMENSIONS



**HORIZONTAL MODULE INSTALLATION - Short Side**



## VERTICAL MODULE INSTALLATION - Long Side

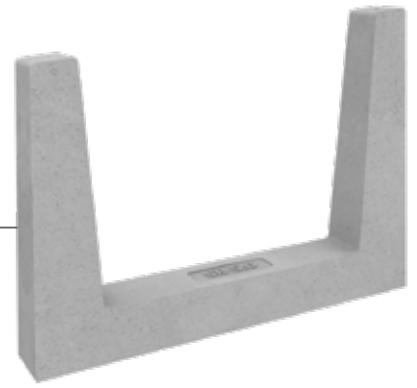


### INFO

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 5.6°

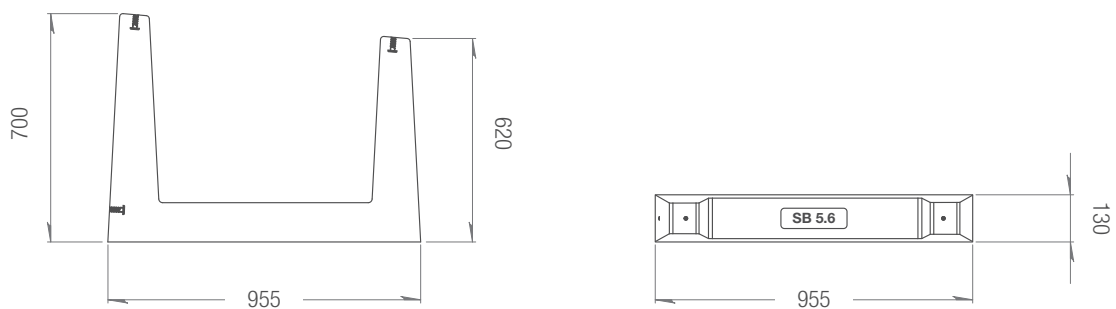
ART. 23005.6



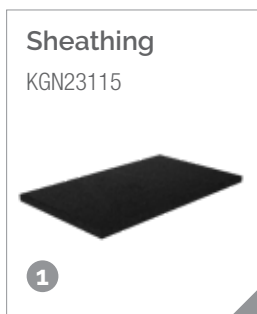
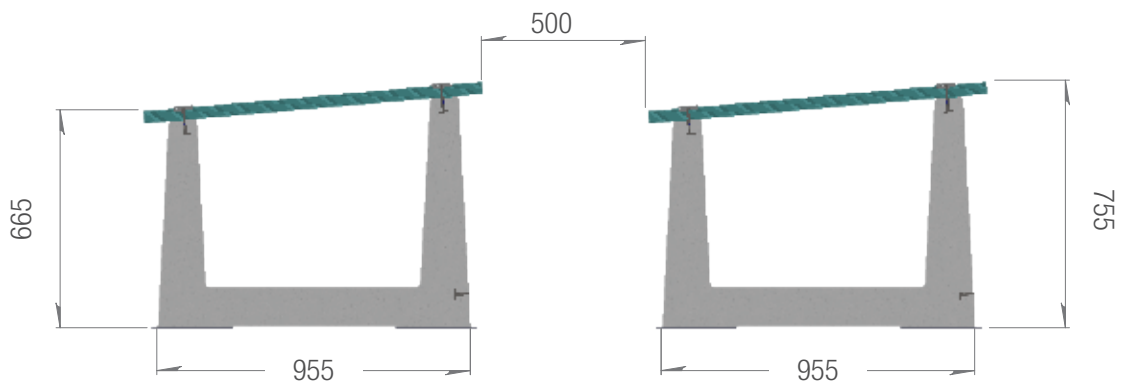
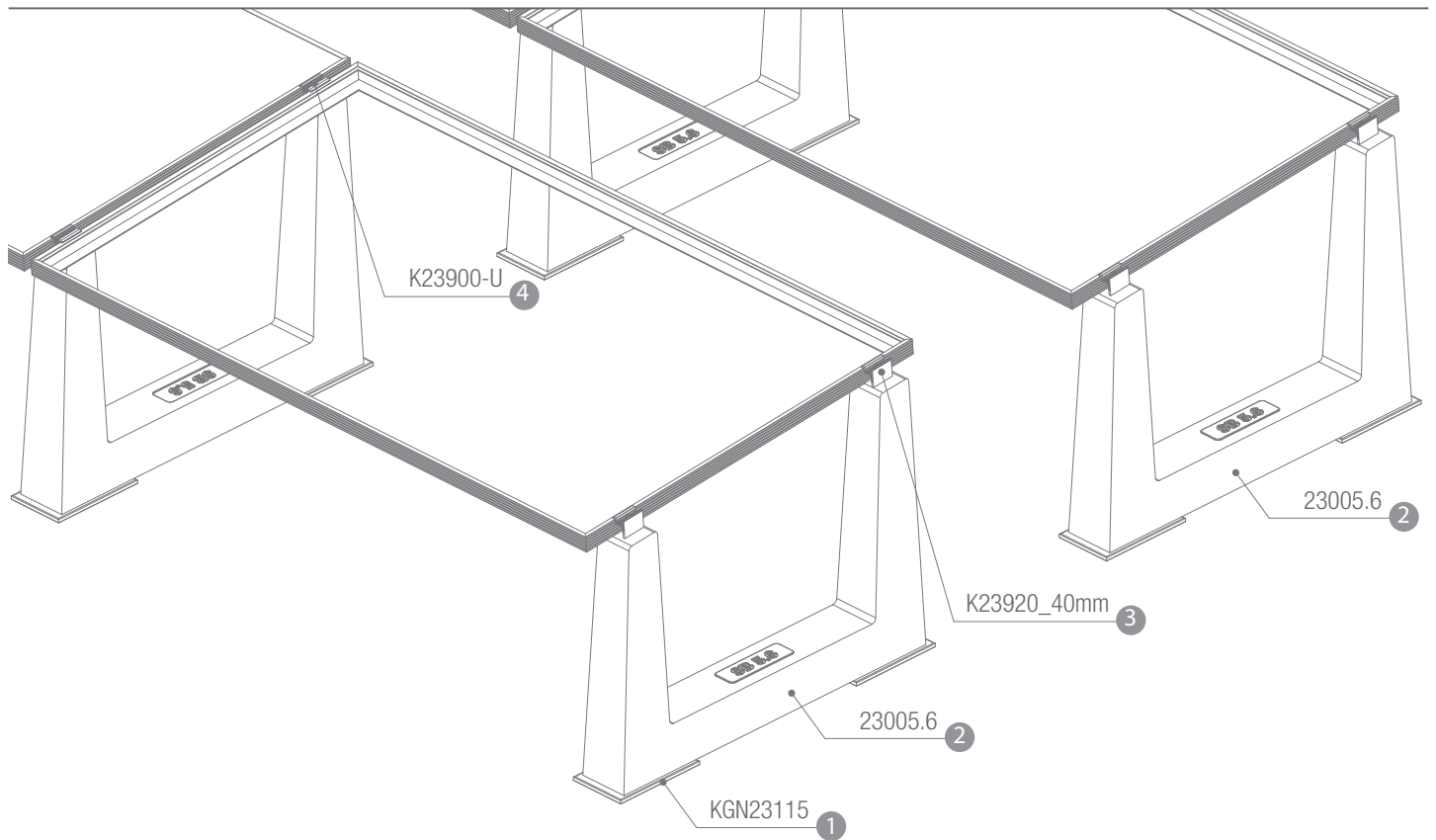
The Single-Row system offers a simple and highly versatile solution: available in a wide range of tilt angles from 0° to 30°, the ballasts allow for mounting of the panels vertically, horizontally, or with an East-West orientation. The mounting system enables flexible modulation of the distance between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

<b>Tilt angle</b>	5.6°
<b>Module positioning</b>	Horizontal - Short side / Vertical - Long side
<b>Ballast weight</b>	67 kg
<b>Quantity per pallet</b>	8 pieces
<b>Pallet dimensions</b>	1100x770x629h mm
<b>Pallet weight</b>	548 kg
<b>Compatible accessories</b>	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)

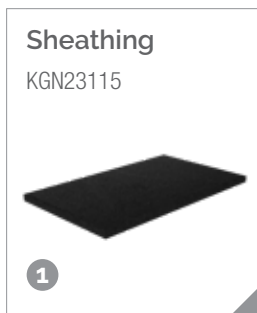
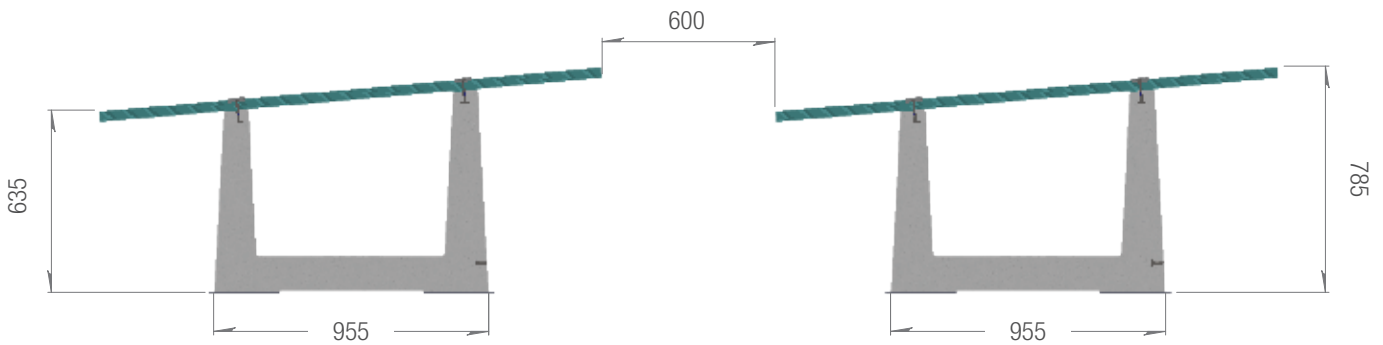
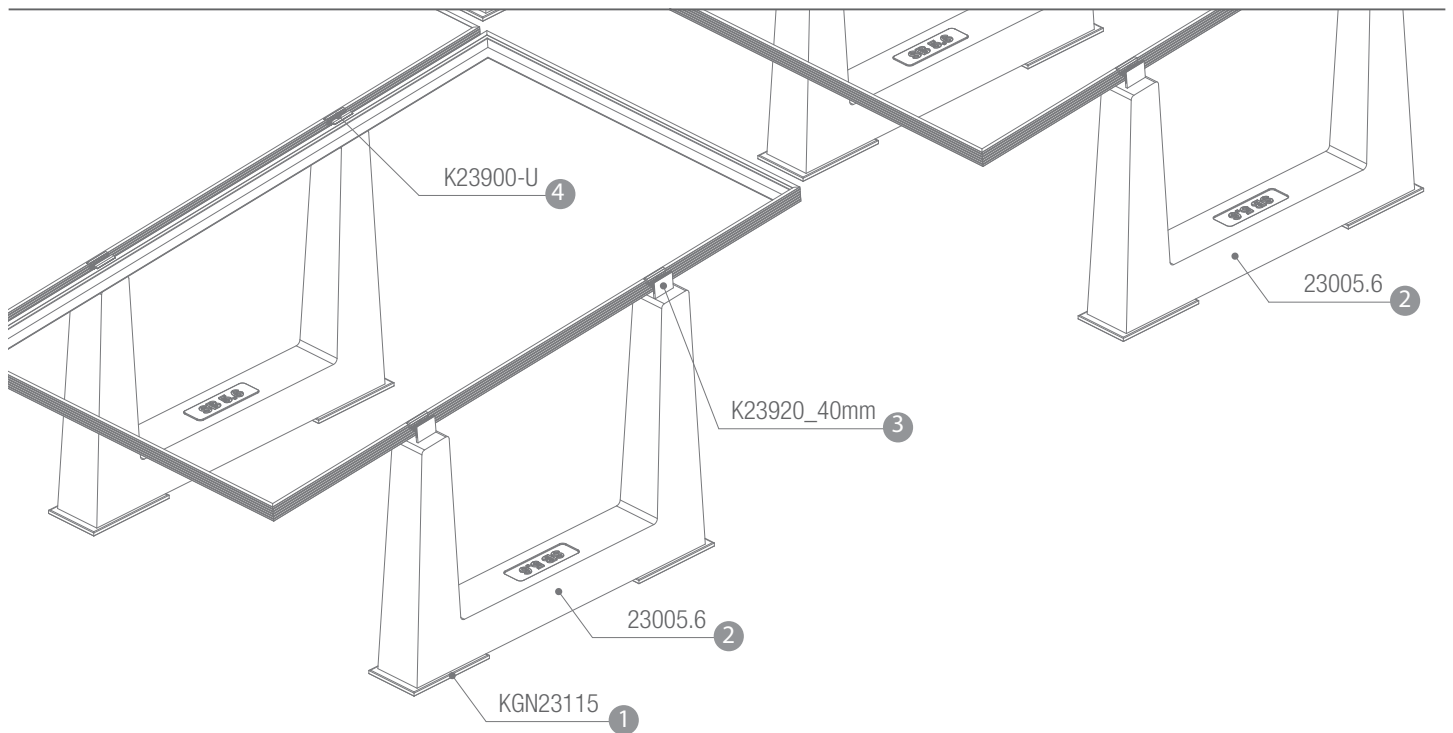
## BALLAST DIMENSIONS



## 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.



# 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.

<b>Tilt angle</b>	10°
<b>Module positioning</b>	Horizontal - Short side / Vertical - Long side
<b>Compatible accessories</b>	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

<b>Ballast weight</b>	60 kg	<b>Pallet dimensions</b>	1000x720x682h mm
<b>Quantity per pallet</b>	10 pieces	<b>Pallet weight</b>	612 kg

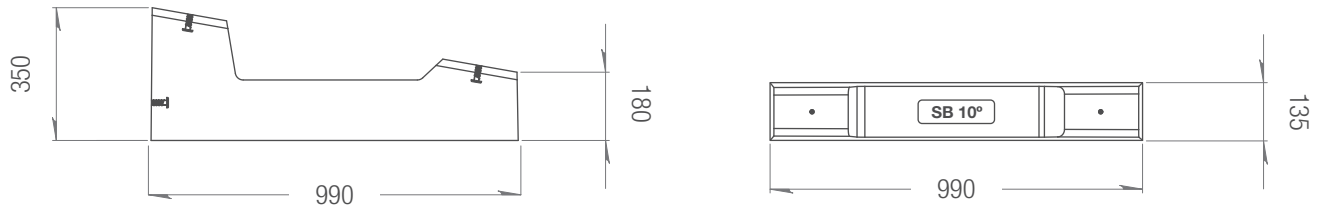
## BALLAST ART. 23010.2

<b>Ballast weight</b>	60 kg	<b>Pallet dimensions</b>	1100x570x729h mm
<b>Quantity per pallet</b>	8 pieces	<b>Pallet weight</b>	494 kg

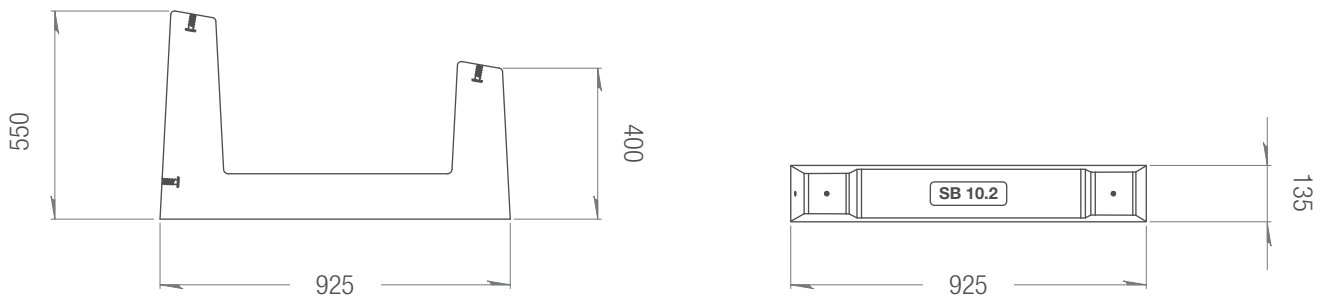
## BALLAST ART. 23010.3

<b>Ballast weight</b>	65 kg	<b>Pallet dimensions</b>	1125x775x668h mm
<b>Quantity per pallet</b>	8 pieces	<b>Pallet weight</b>	537 kg

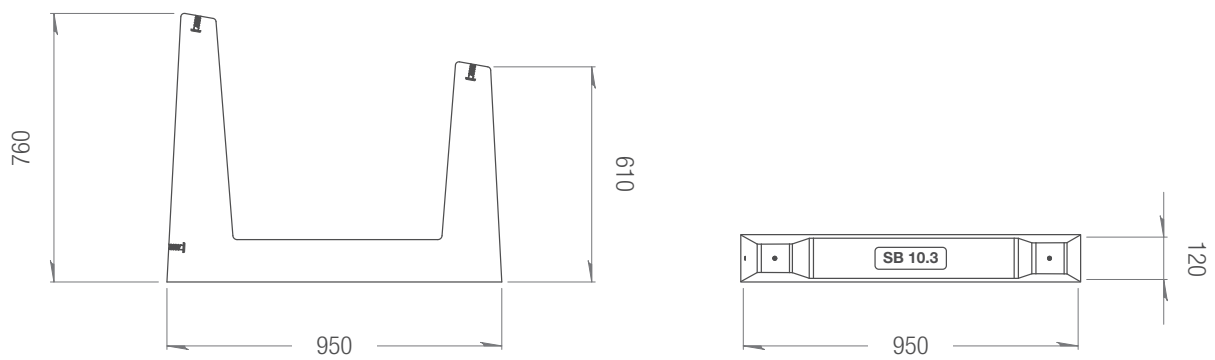
### BALLAST 23010 DIMENSIONS



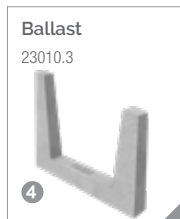
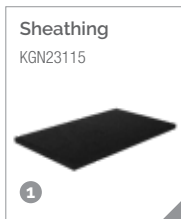
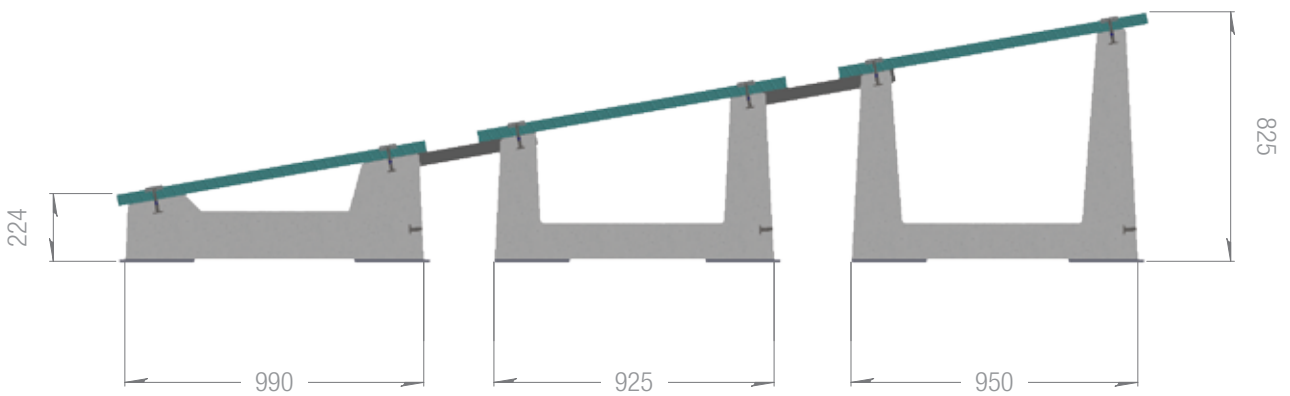
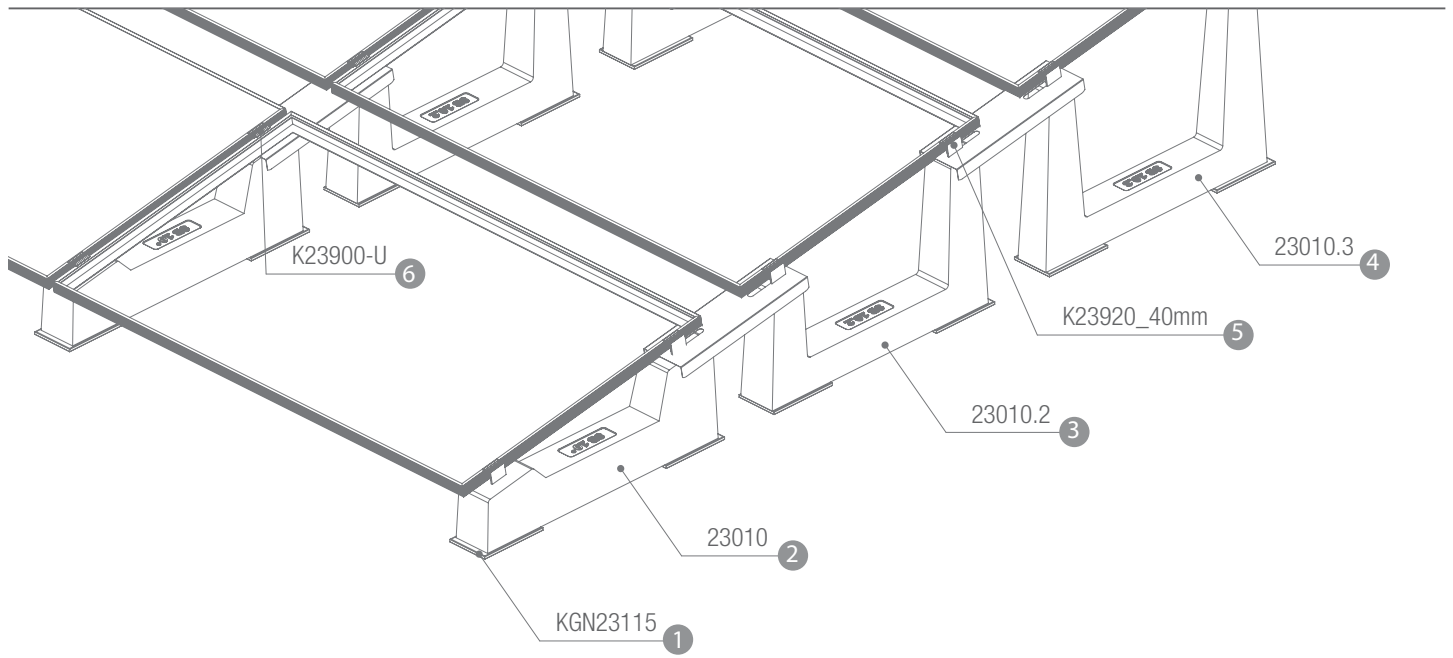
### BALLAST 23010.2 DIMENSIONS



### BALLAST 23010.3 DIMENSIONS



## HORIZONTAL MODULE INSTALLATION – Short Side



### INFO

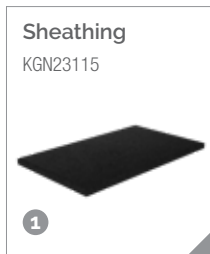
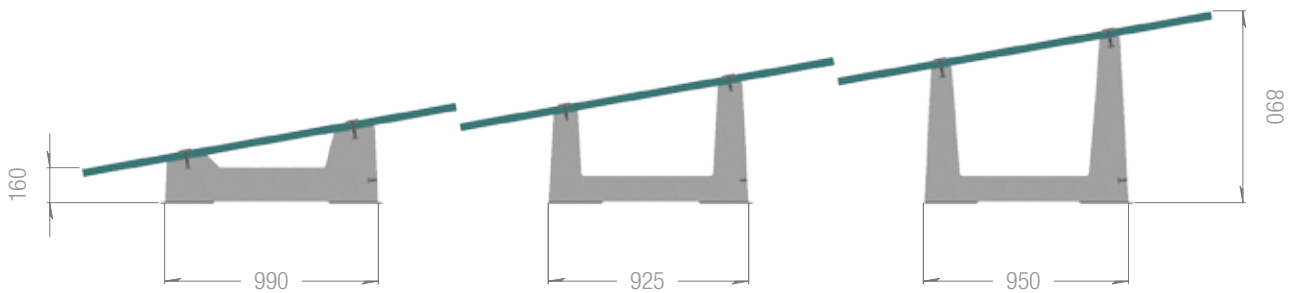
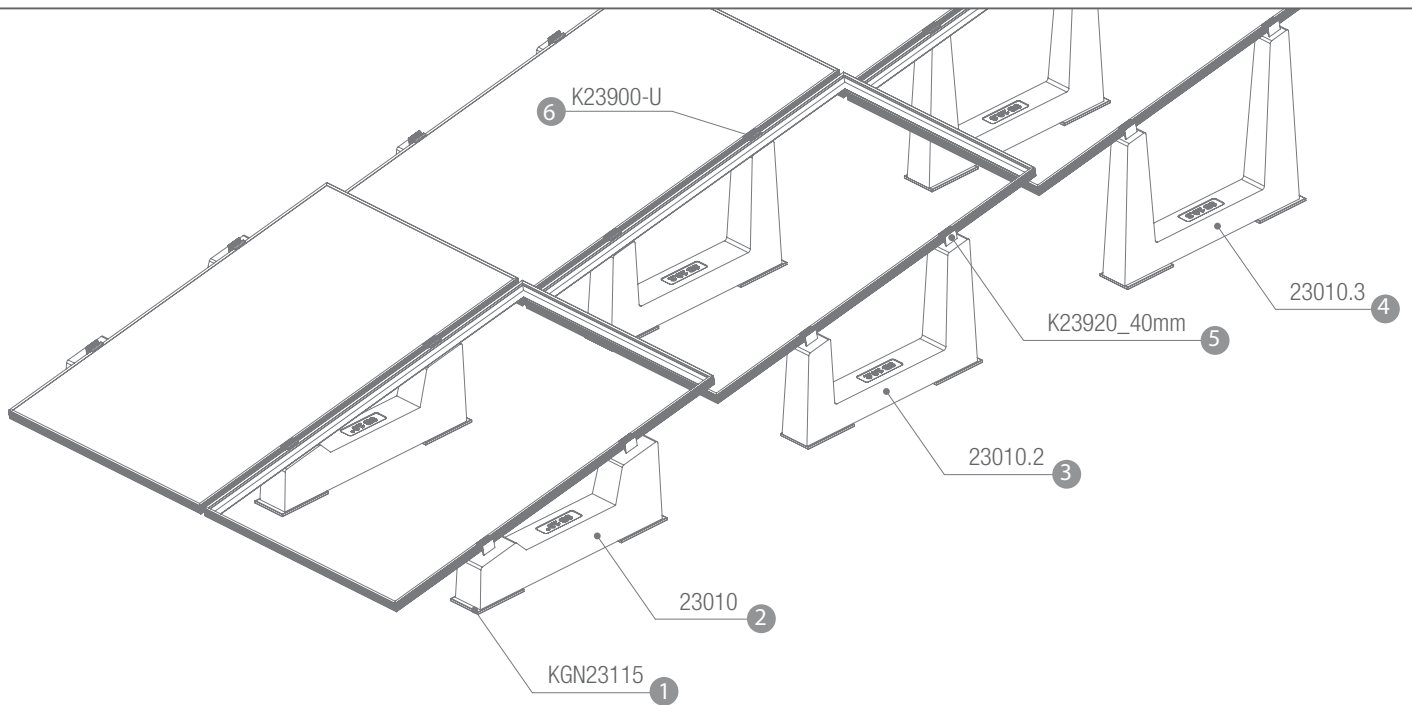
The distance between the rows is indicative and not binding; it may vary depending on the project.

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.

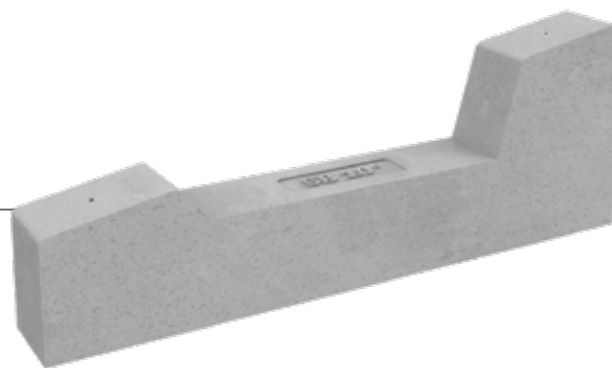
The measurements are based on the use of a panel with dimensions of 1722mm x 1134mm x 35mm. They vary depending on the size of the panel used.

Follow Sun Ballast®'s assembly instructions.

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

# BALLAST 10°

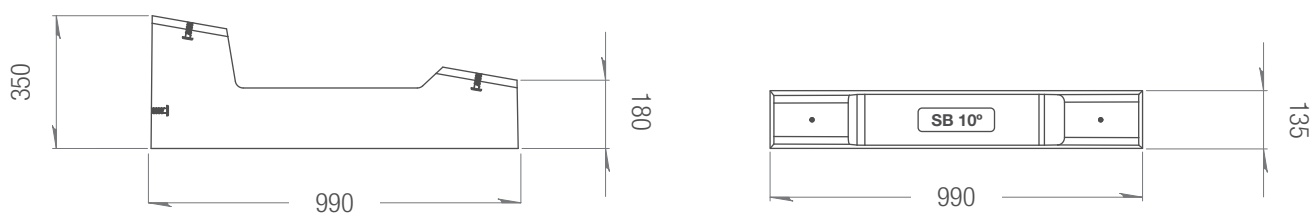
ART. 23010



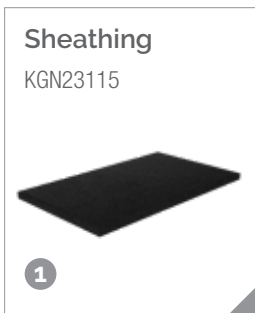
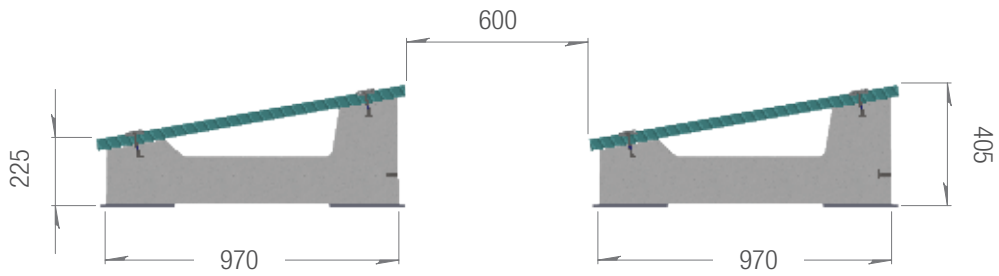
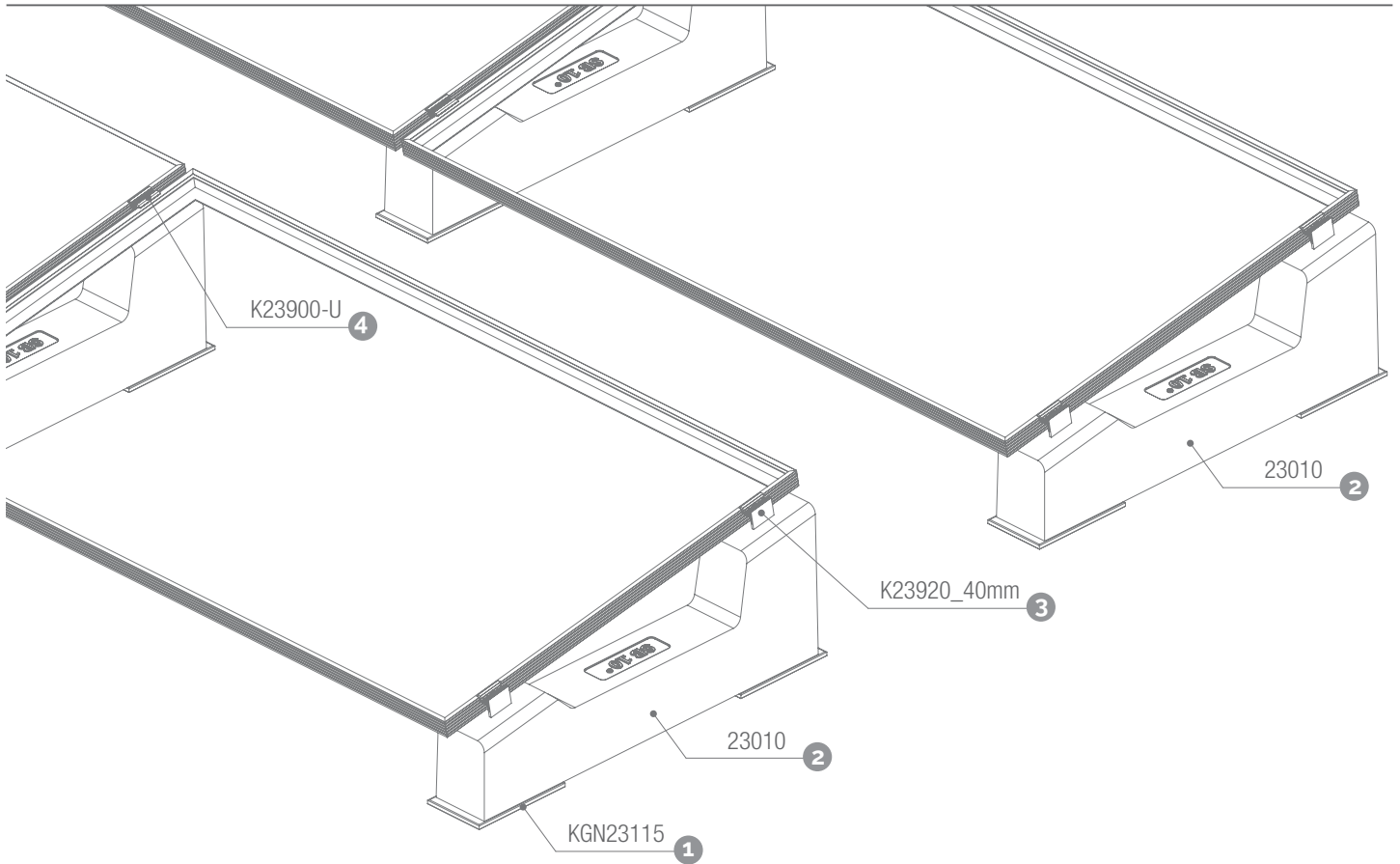
The Single-Row system offers a simple and highly versatile solution: available in a wide range of tilt angles from 0° to 30°, the ballasts allow for mounting of the panels vertically, horizontally, or with an East-West orientation. The mounting system enables flexible modulation of the distance between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

<b>Tilt angle</b>	10°
<b>Module positioning</b>	Horizontal - Short side / Vertical - Long side
<b>Ballast weight</b>	60 kg
<b>Quantity per pallet</b>	10 pieces
<b>Pallet dimensions</b>	1000x720x682h mm
<b>Pallet weight</b>	612 kg
<b>Compatible accessories</b>	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)

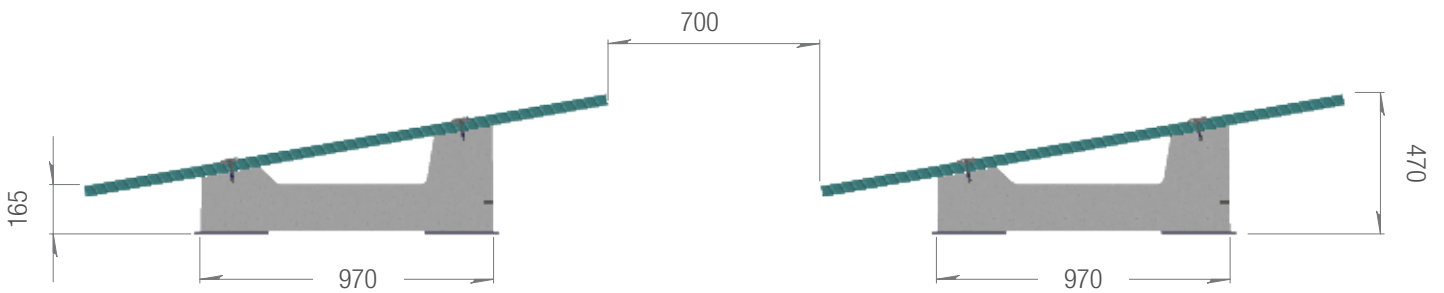
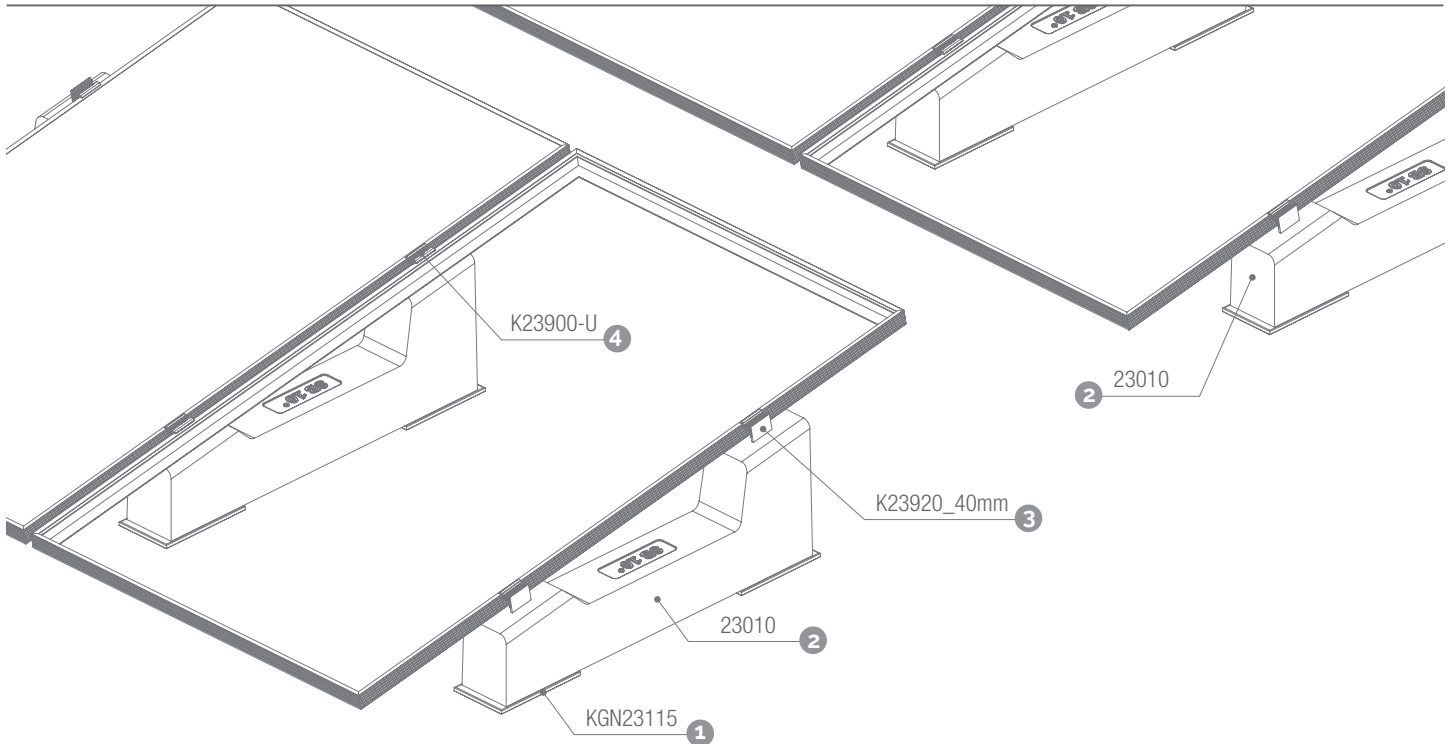
## BALLAST DIMENSIONS



**HORIZONTAL MODULE INSTALLATION - Short Side**



## VERTICAL MODULE INSTALLATION - Long Side

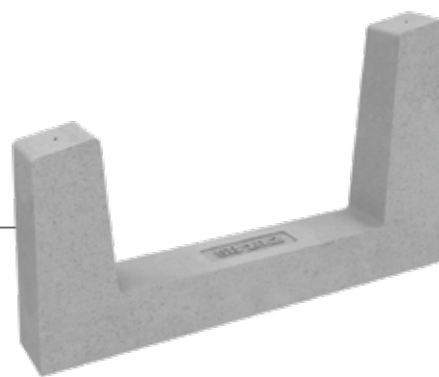


### INFO

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°

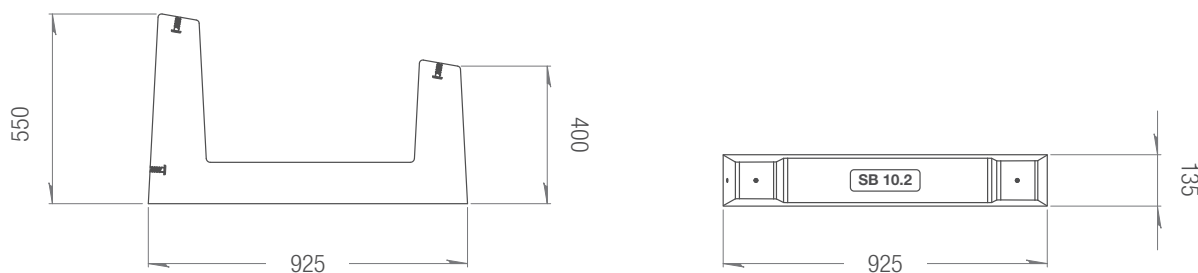
ART. 23010.2



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.

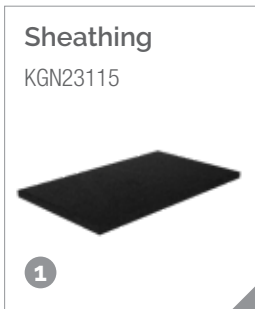
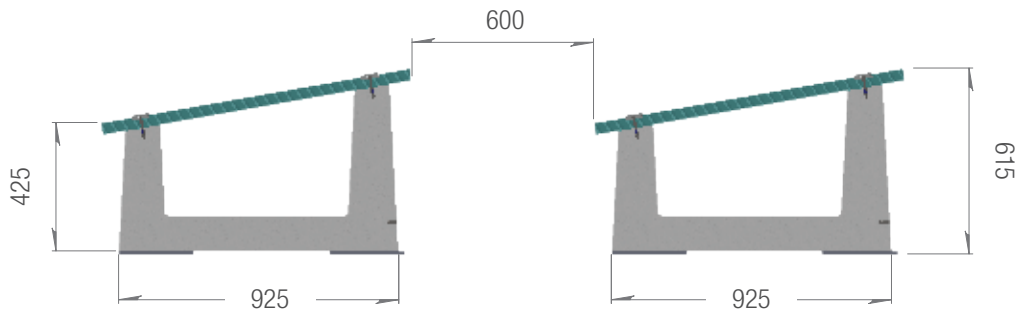
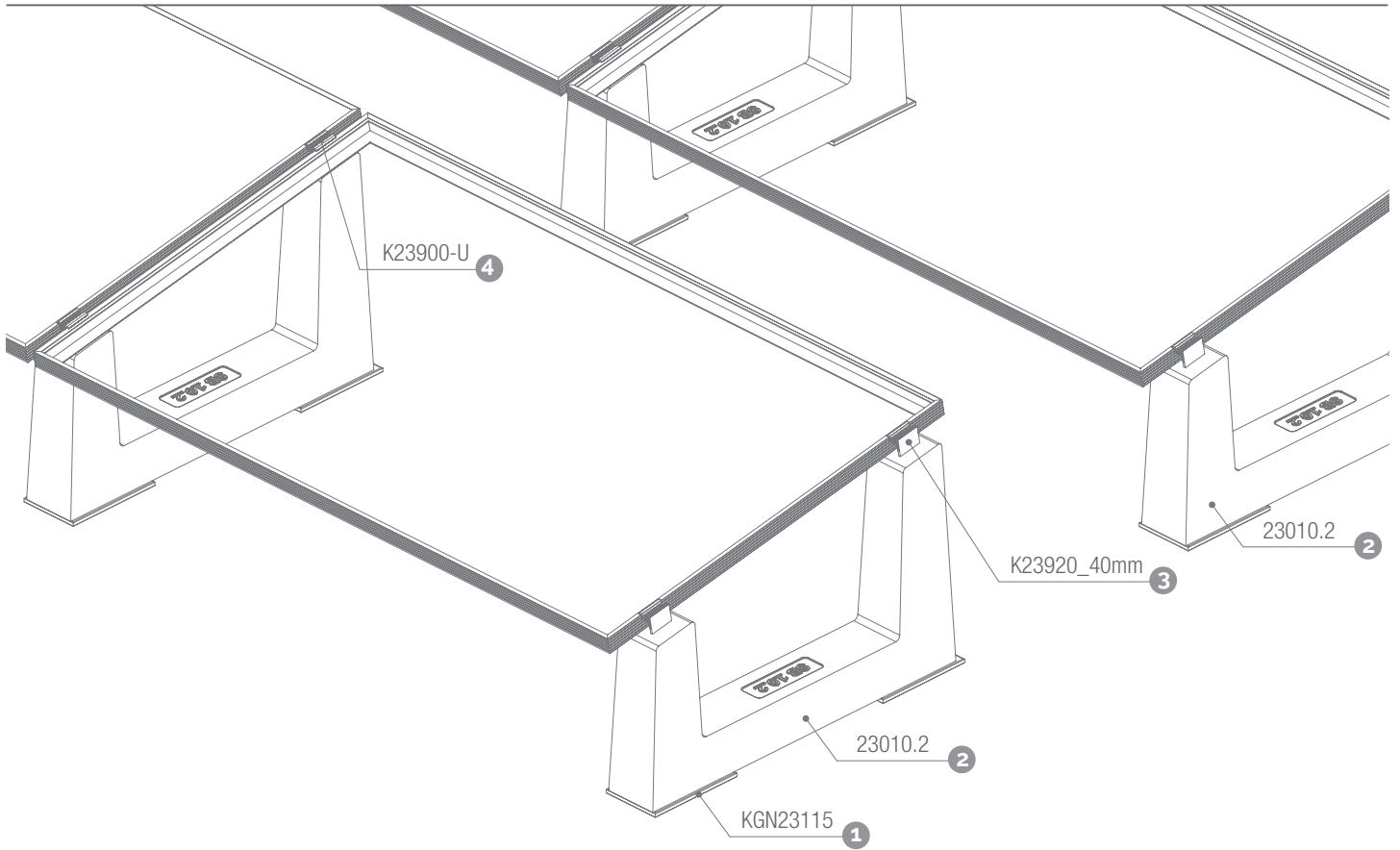
<b>Tilt angle</b>	10°
<b>Module positioning</b>	Horizontal - Short side / Vertical - Long side
<b>Ballast weight</b>	60 kg
<b>Quantity per pallet</b>	8 pieces
<b>Pallet dimensions</b>	1100x570x729h mm
<b>Pallet weight</b>	494 kg
<b>Compatible accessories</b>	Sheathing (KGN23115), Universal clamps (K23900/U.50, 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

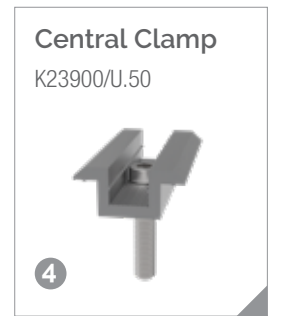
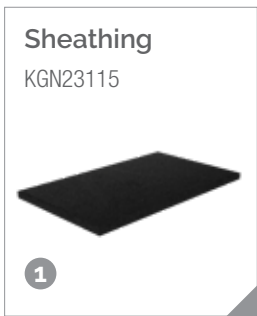
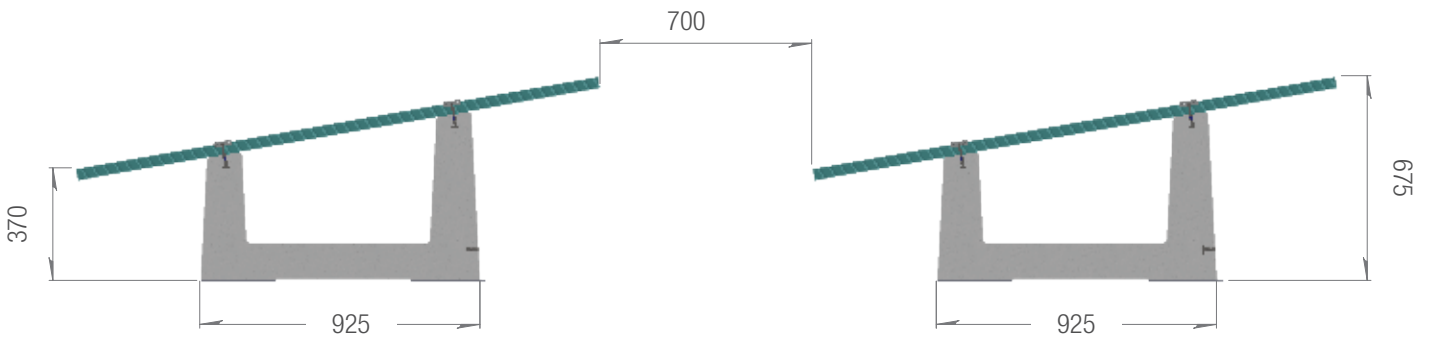
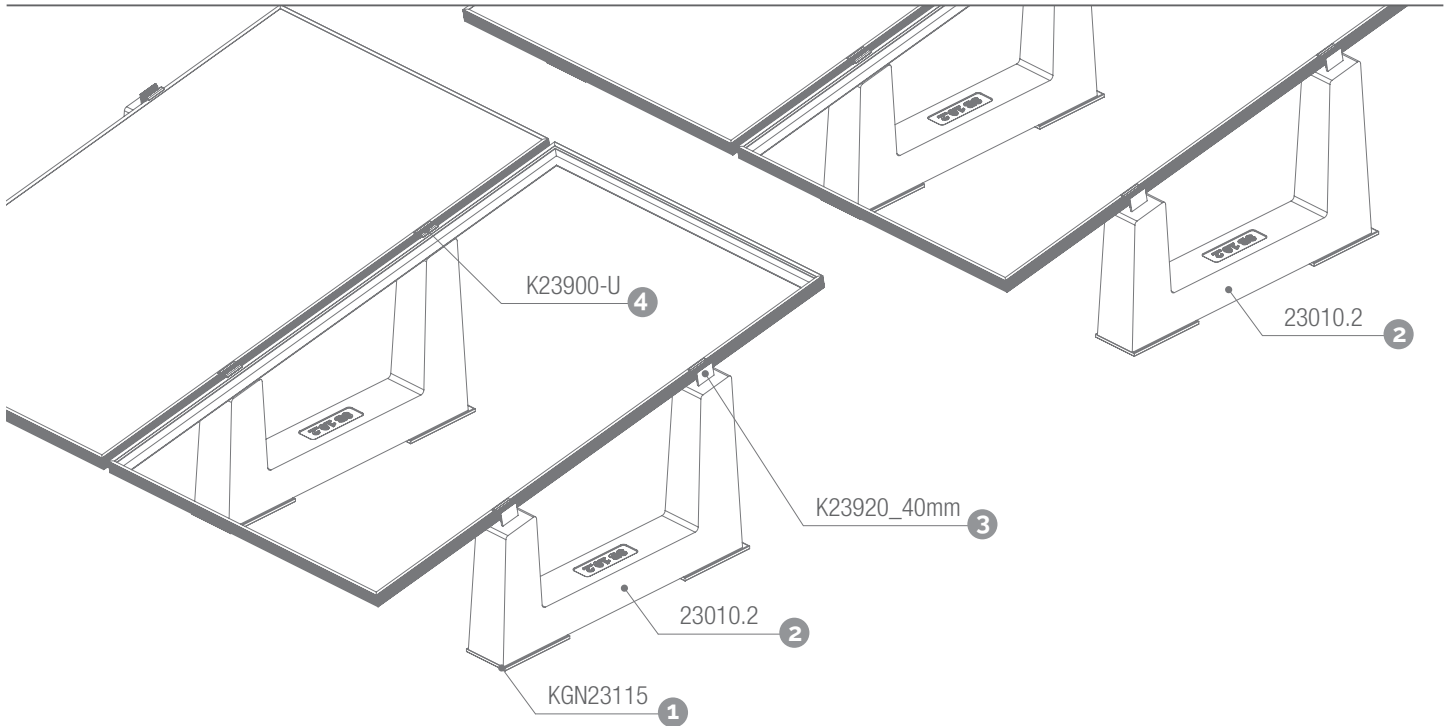




**HORIZONTAL MODULE INSTALLATION - Short Side**



**VERTICAL MODULE INSTALLATION - Long Side**

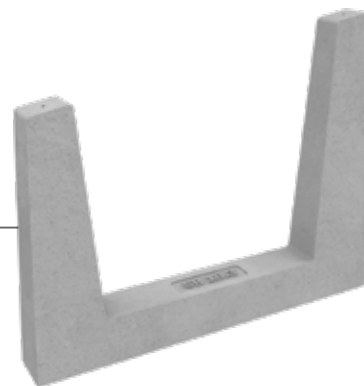


**INFO**

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 10.3°

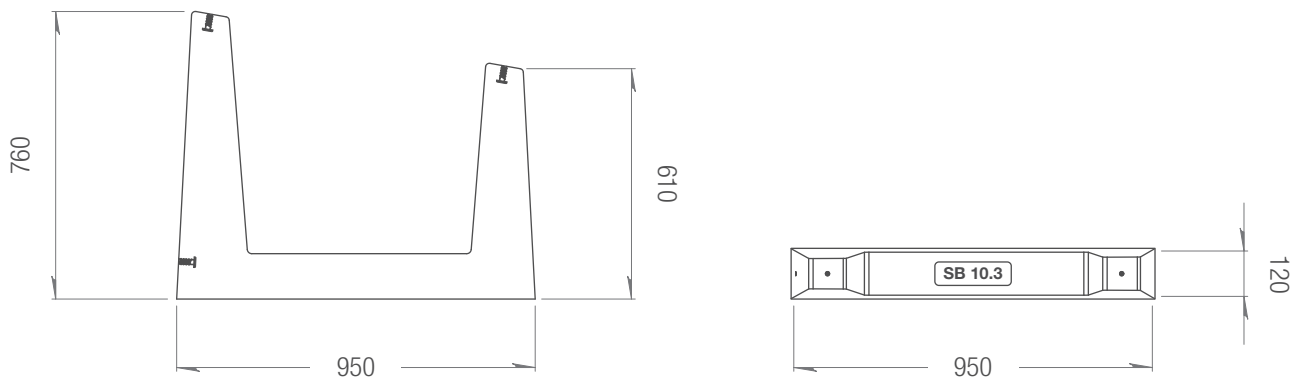
ART. 23010.3



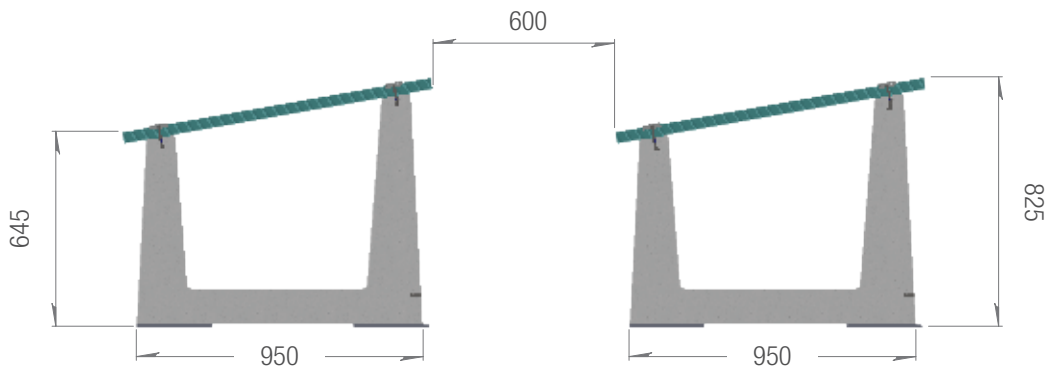
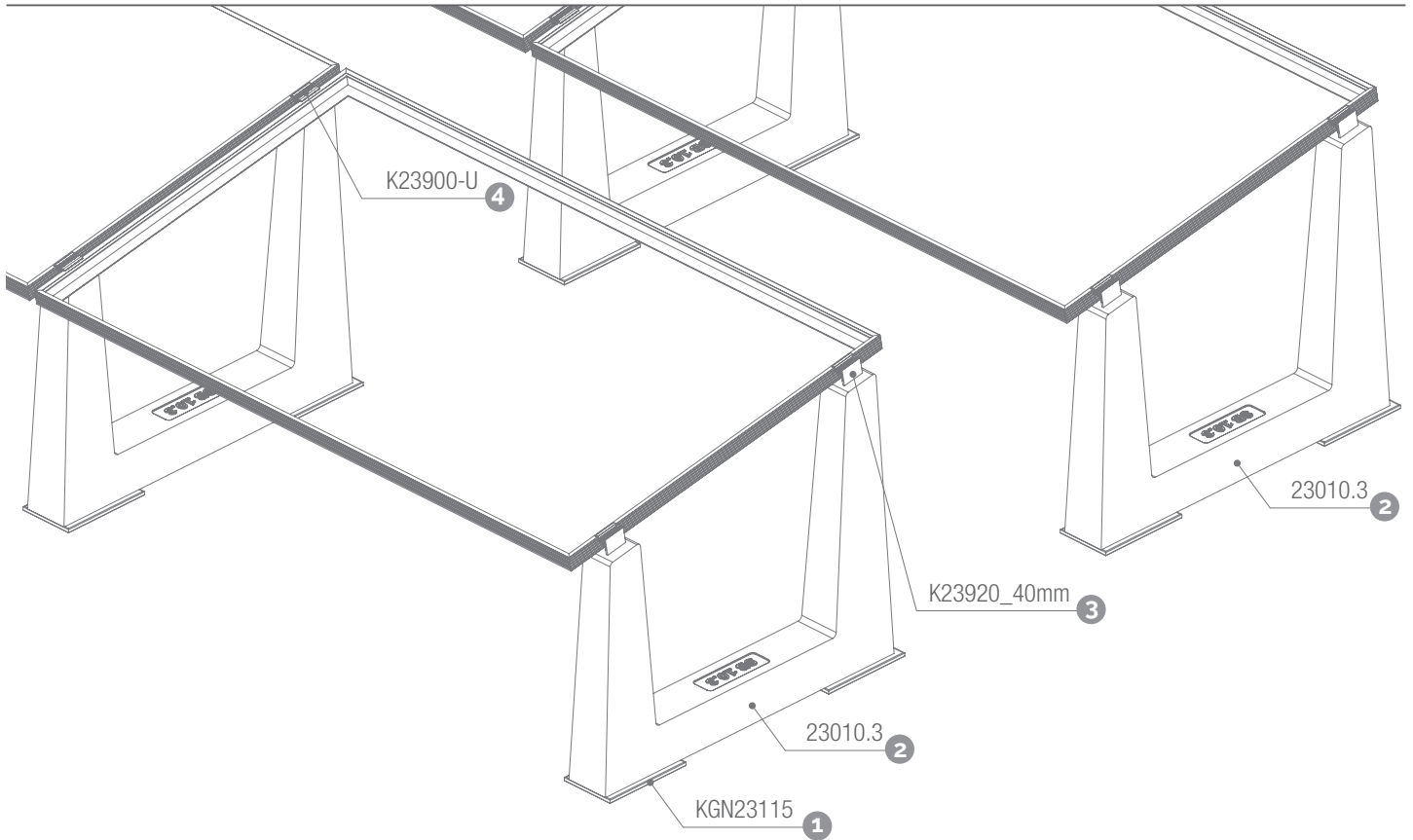
The Single-Row system offers a simple and highly versatile solution: available in a wide range of tilt angles from 0° to 30°, the ballasts allow for mounting of the panels vertically, horizontally, or with an East-West orientation. The mounting system enables flexible modulation of the distance between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

<b>Tilt angle</b>	10°
<b>Module positioning</b>	Horizontal - Short side / Vertical - Long side
<b>Ballast weight</b>	65 kg
<b>Quantity per pallet</b>	8 pieces
<b>Pallet dimensions</b>	1125x775x668h mm
<b>Pallet weight</b>	537 kg
<b>Compatible accessories</b>	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)

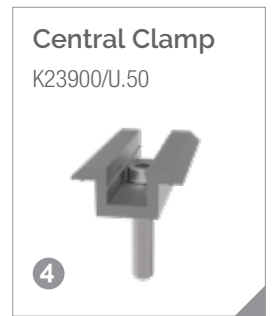
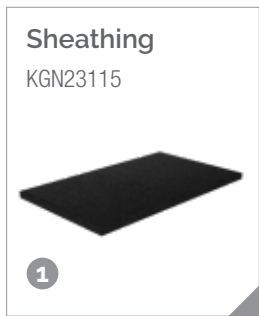
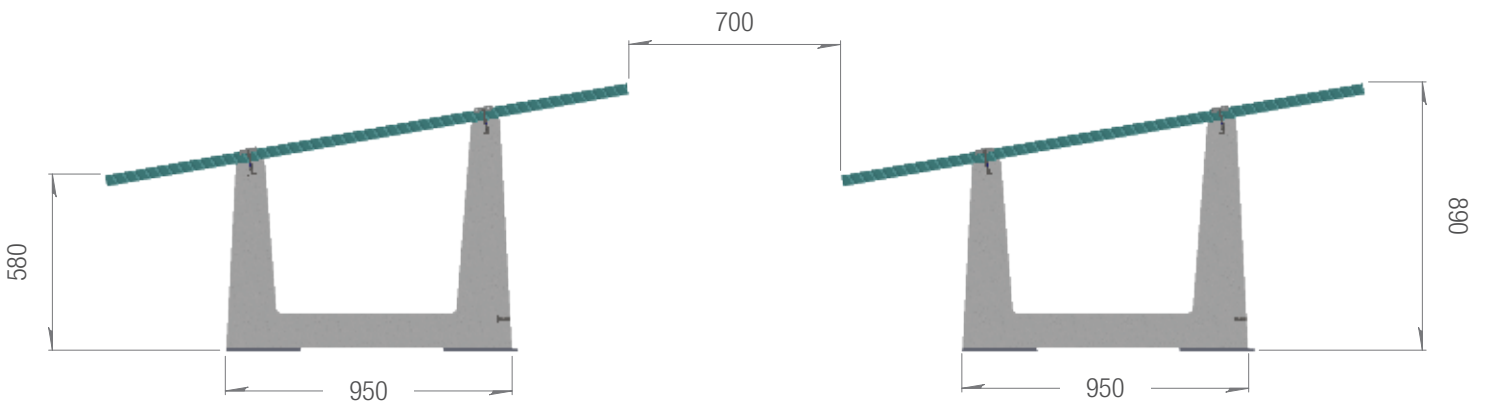
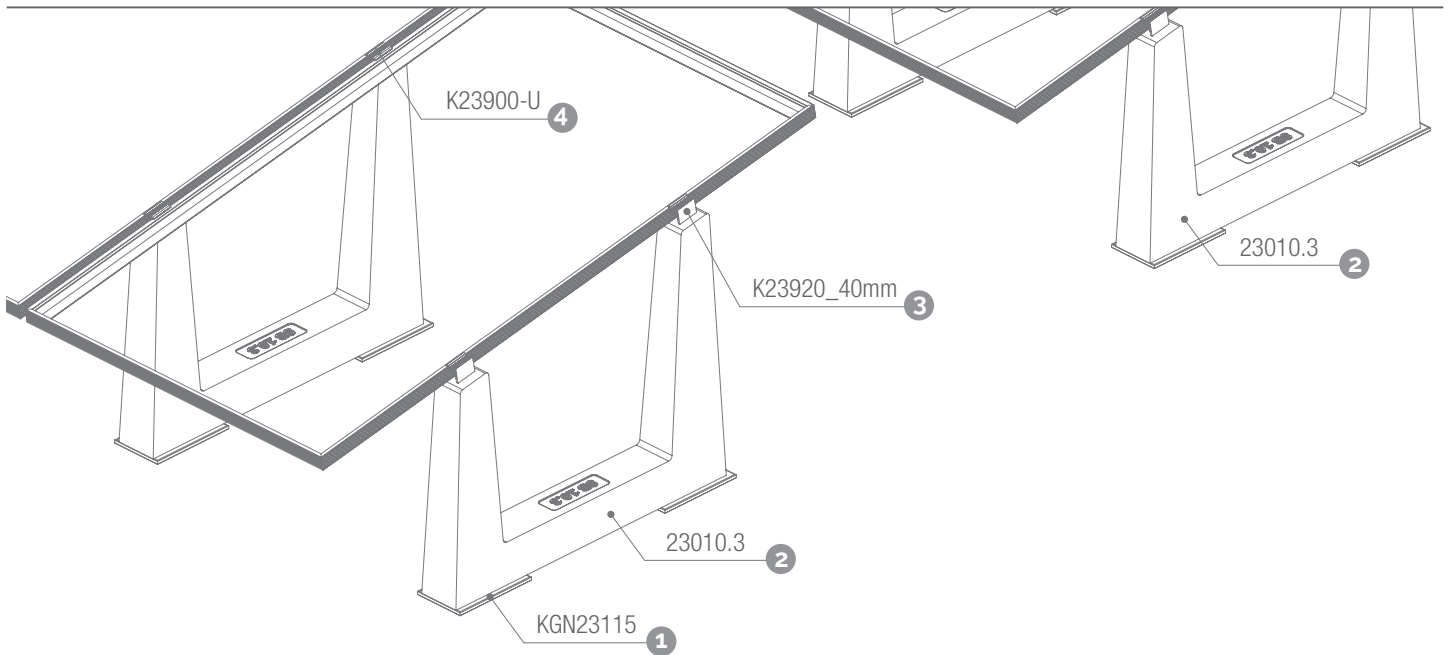
## BALLAST DIMENSIONS



**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.

# INDUSTRIAL-XL 5°

ART. 23005.XLF/.XLC/.XLT



Designed for large-size panels used in large-scale PV plants, the Industrial-XL system ensures the highest level of safety and reliability. Its special reticular configuration with vertical mounting at a 5° tilt guarantees maximum wind resistance and compliance with all support parameters, while simultaneously reducing both the cost per kW and the roof loads.

**Tilt angle** 5°

**Module positioning** Vertical - Long Side

**Compatible accessories** Sheathing (KGN23138), Universal clamps (K23900/U.50, K23920/U.50), PowerClamp (K23900/PWC.50, 23920/PWC), U-Block (23015.CRP - 23030.CRP)

## BALLAST ART. 23005.XLF

<b>Ballast weight</b>	45 kg	<b>Pallet dimensions</b>	1400x1080x333h mm
<b>Quantity per pallet</b>	12 pieces	<b>Pallet weight</b>	558 kg

## BALLAST ART. 23005.XLC

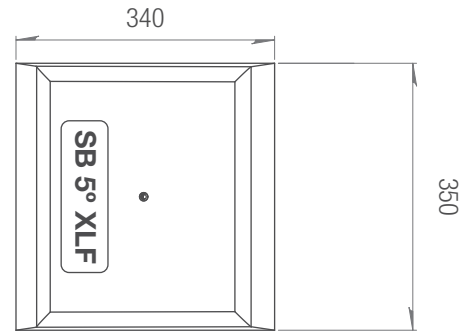
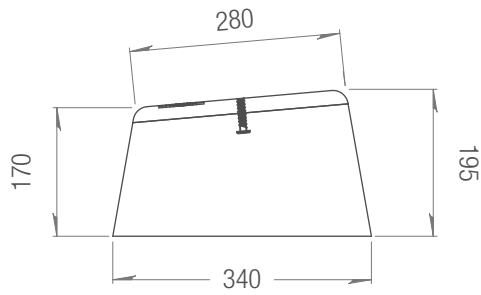
<b>Ballast weight</b>	56 kg	<b>Pallet dimensions</b>	1643x670x651h mm
<b>Quantity per pallet</b>	10 pieces	<b>Pallet weight</b>	563 kg

## BALLAST ART. 23005.XLT

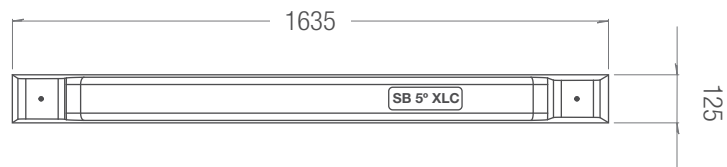
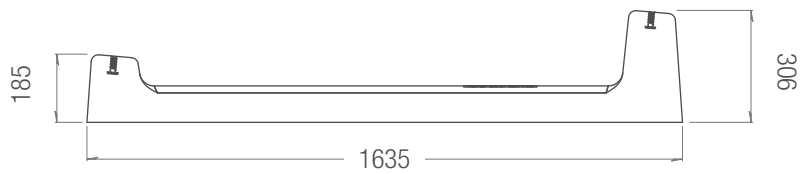
<b>Ballast weight</b>	45 kg	<b>Pallet dimensions</b>	1213x768x453h mm
<b>Quantity per pallet</b>	12 pieces	<b>Pallet weight</b>	553 kg

**BALLAST 23005.XLF DIMENSIONS**

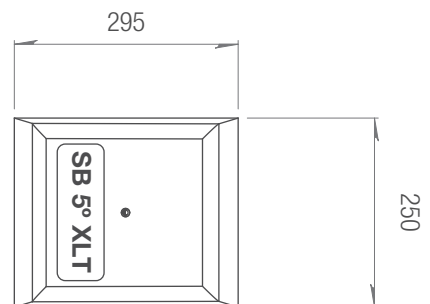
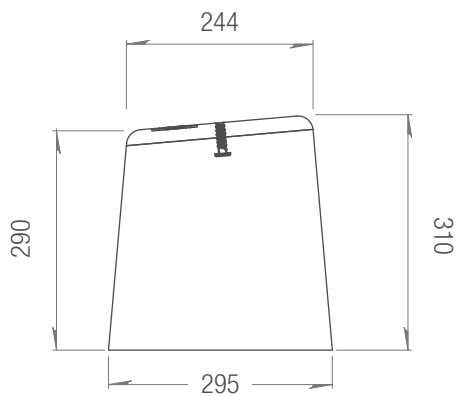
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**BALLAST 23005.XLC DIMENSIONS**

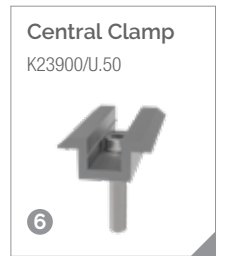
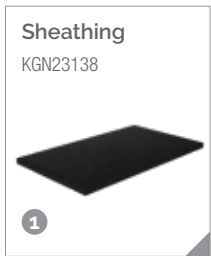
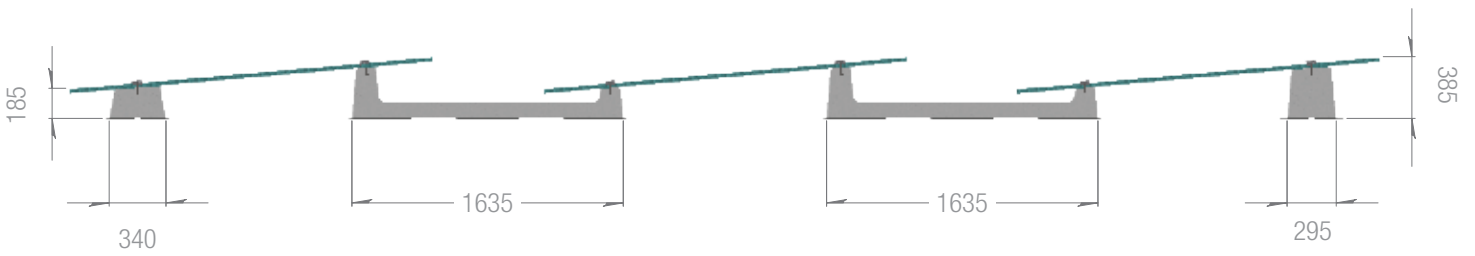
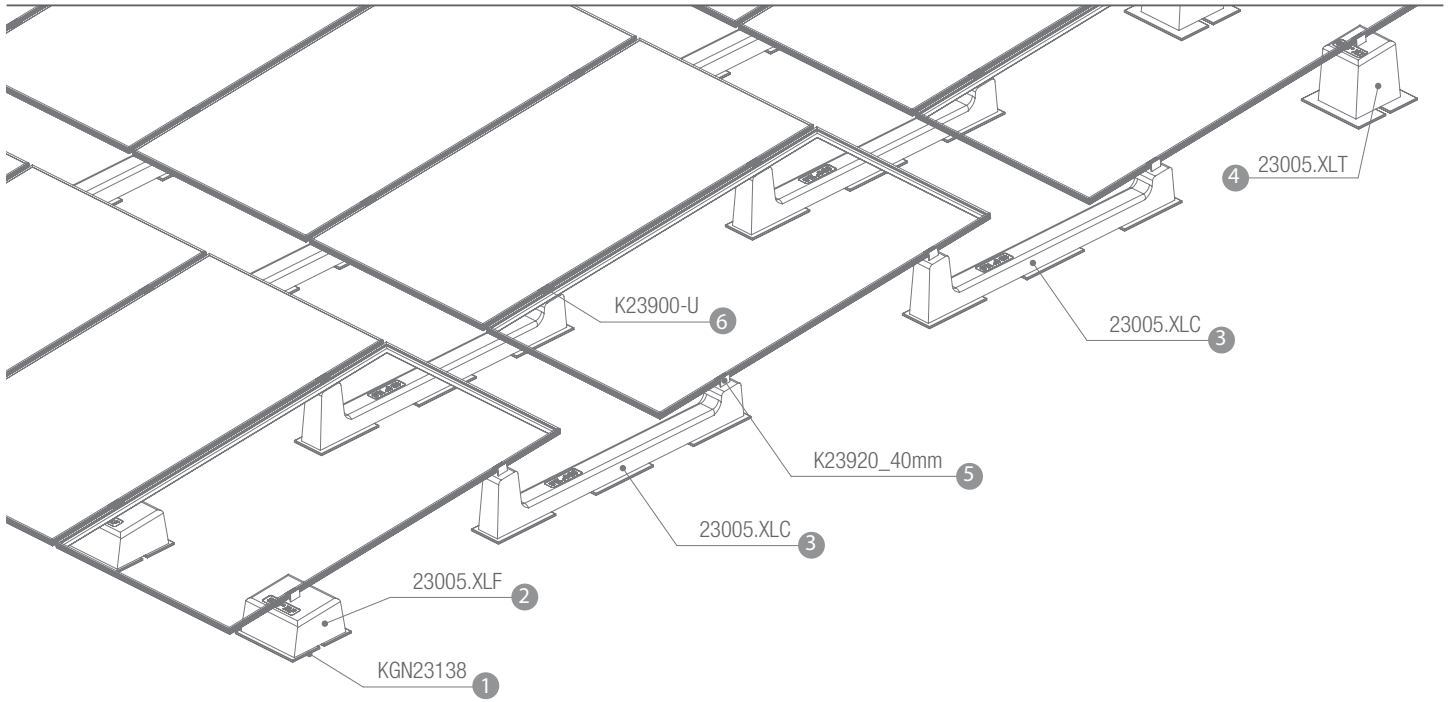
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**BALLAST 23005.XLT DIMENSIONS**

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## 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 2278mm x 1134mm x 35mm. They vary depending on the size of the panel used.

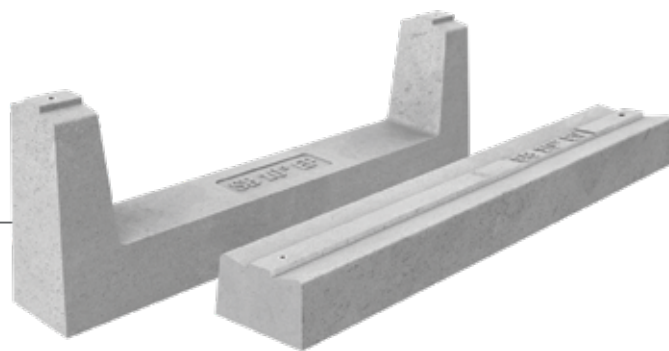
Follow Sun Ballast®'s assembly instructions.

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



# EASYWEST 10°

ART. 23010.EV/.EP



Minimal roof load, high wind resistance, and compatibility with any type of module: the EasyWest system is designed to provide East-West installations on flat roofs with a support system that is extremely lightweight, easy to handle, robust, and quick to install, suitable for both standard panels and large-size modules.

**Tilt angle** 10°

**Module positioning** Horizontal – Long Side

**Compatible accessories** Sheathing (KGN23115),  
PowerClamp (K23900PWC-EV.40, K23900PWC-EP.40, 23920/PWC),  
U-Block (23015.CRP - 23030.CRP)

## BALLAST ART. 23010.EV

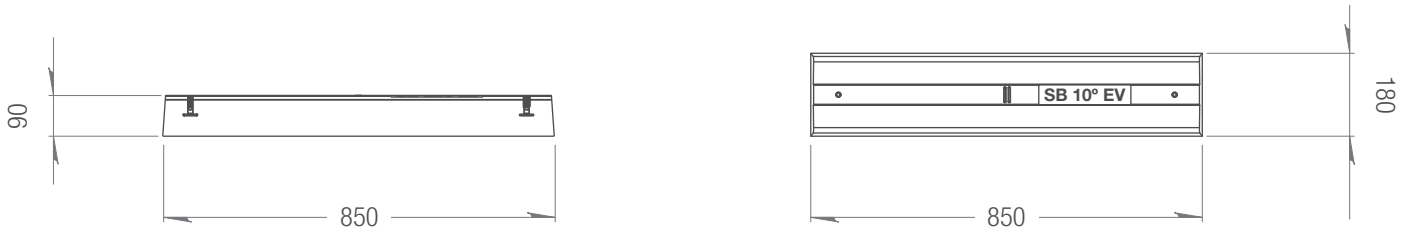
<b>Ballast weight</b>	28 kg	<b>Pallet dimensions</b>	850x920x518h mm
<b>Quantity per pallet</b>	20 pieces	<b>Pallet weight</b>	571 kg

## BALLAST ART. 23010.EP

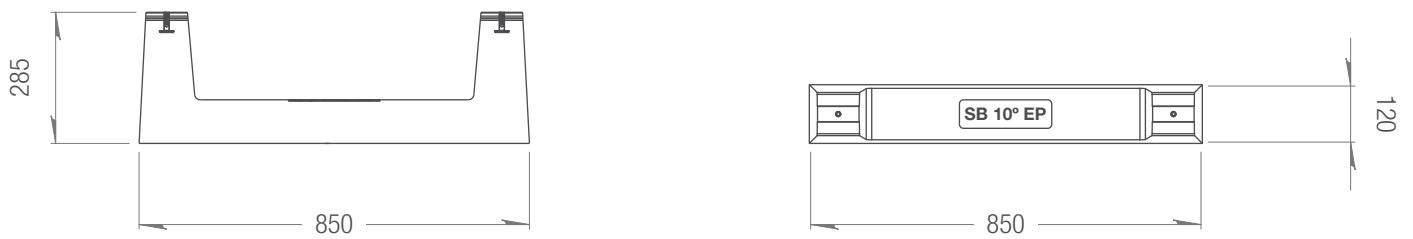
<b>Ballast weight</b>	30 kg	<b>Pallet dimensions</b>	850x1270x735h mm
<b>Quantity per pallet</b>	20 pieces	<b>Pallet weight</b>	615 kg

**BALLAST 23010.EV DIMENSIONS**

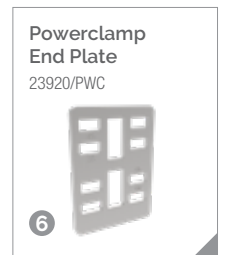
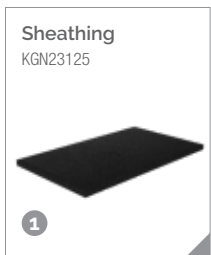
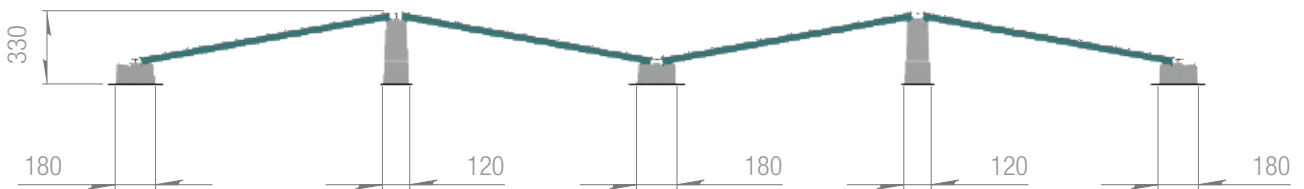
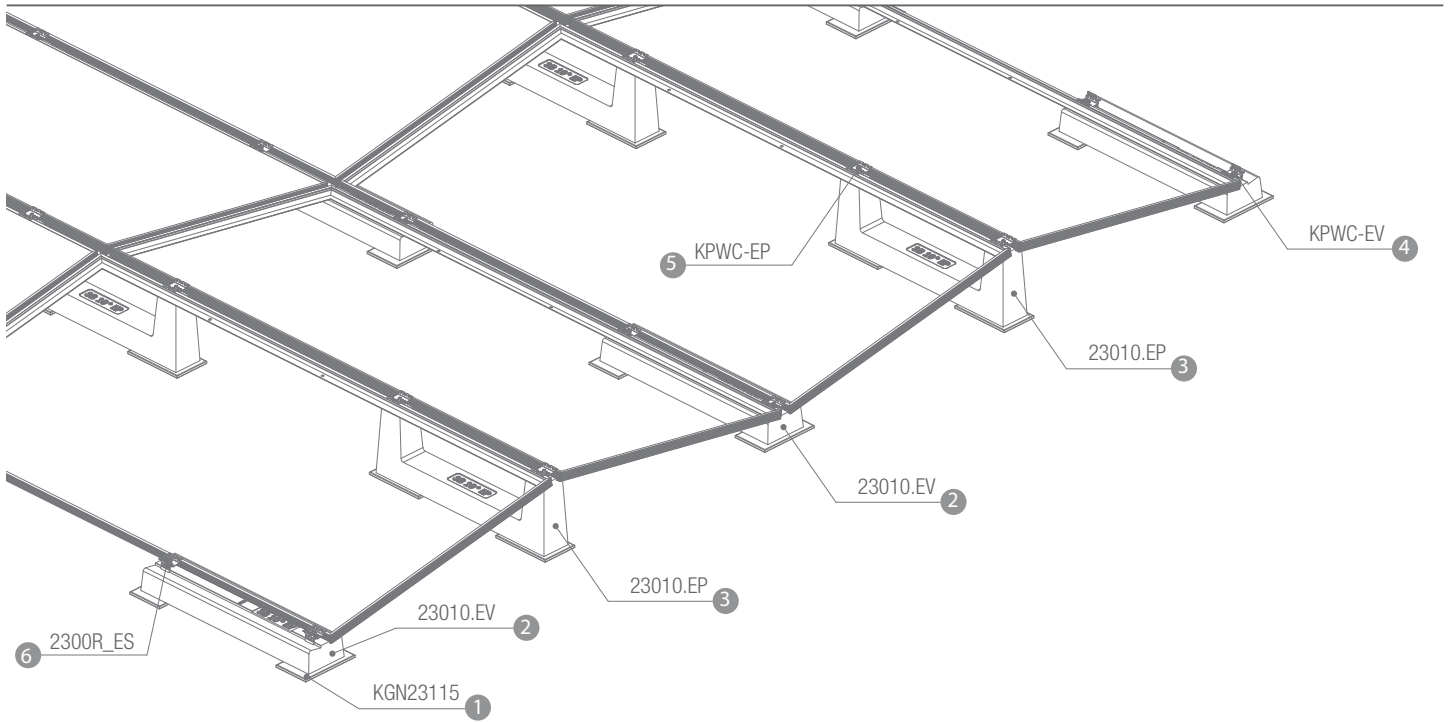
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**BALLAST 23010.EP DIMENSIONS**

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## HORIZONTAL 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 2278mm 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: ±5%;
- Measurement: ±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.



# BALLAST 25°

ART. 23025



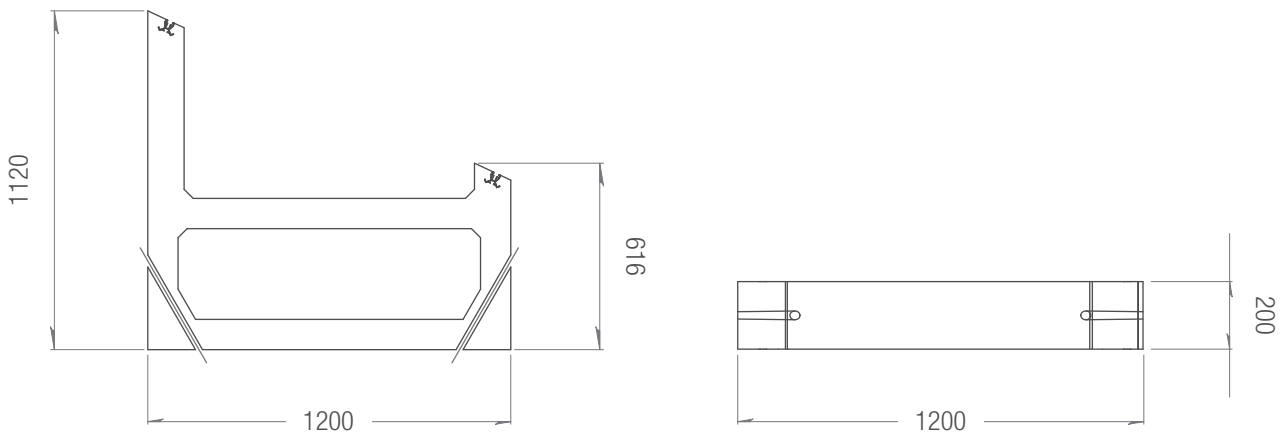
Big Ballast is specially designed for ground-mounted PV systems, offering top performance and great versatility. With a 25° tilt and vertical mounting, it fits perfectly with large panels and more.

Its height makes mowing grass underneath easy. The strong structure ensures stability and quick installation even on uneven ground. Plus, its smart design helps with handling and can hold electrical conduits for a cleaner, faster, and more cost-effective setup.

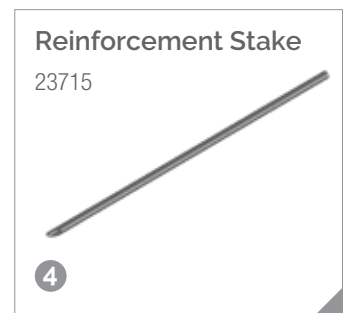
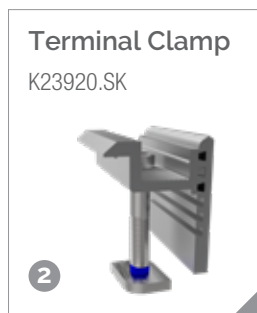
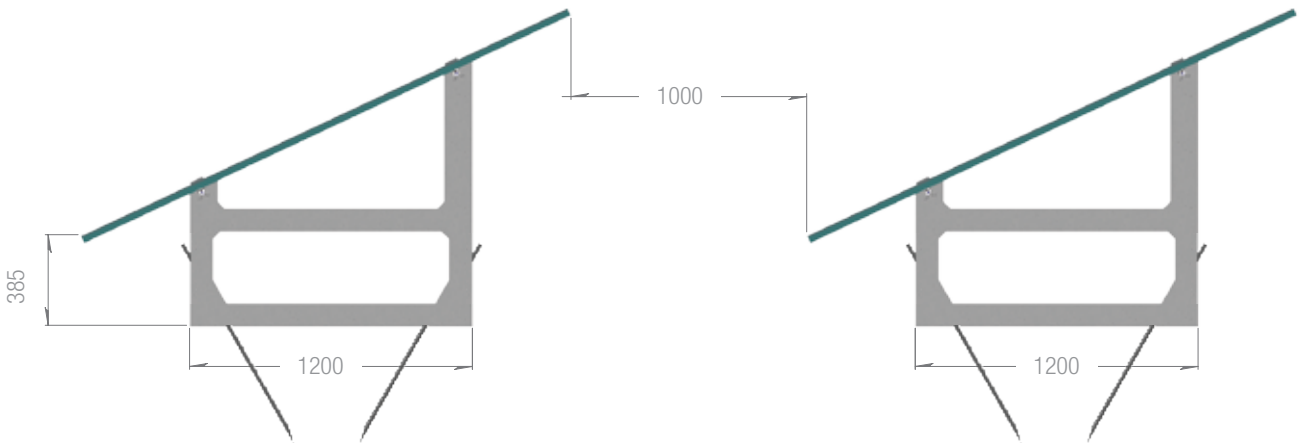
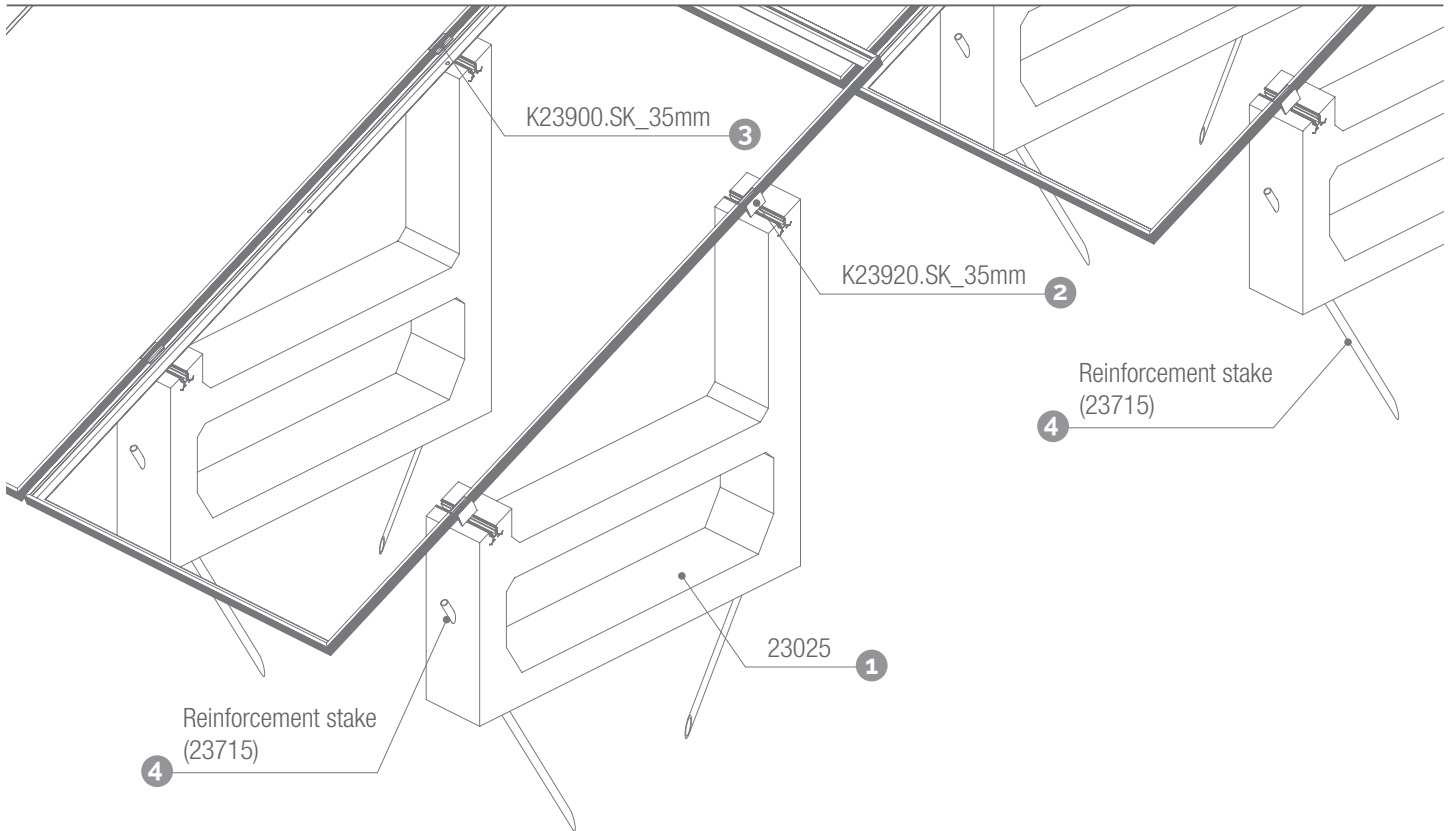
For tougher projects like soft soils or windy areas special holes let you add reinforcement stakes (provided by Sun Ballast) to boost stability even more.

<b>Tilt angle</b>	25°
<b>Module positioning</b>	Vertical - Long side
<b>Ballast weight</b>	182 kg
<b>Compatible accessories</b>	Reinforcement stake (23715) Universal clamps (K23920.SK, K23900.SK)

## BALLAST DIMENSIONS



**VERTICAL MODULE INSTALLATION - Long Side**



## TECHNICAL CHARACTERISTICS BALLAST 25°

### 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: ±5%;
- Measurement: ±5 mm;

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

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### INFORMATION AND FIRST CONTACT

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

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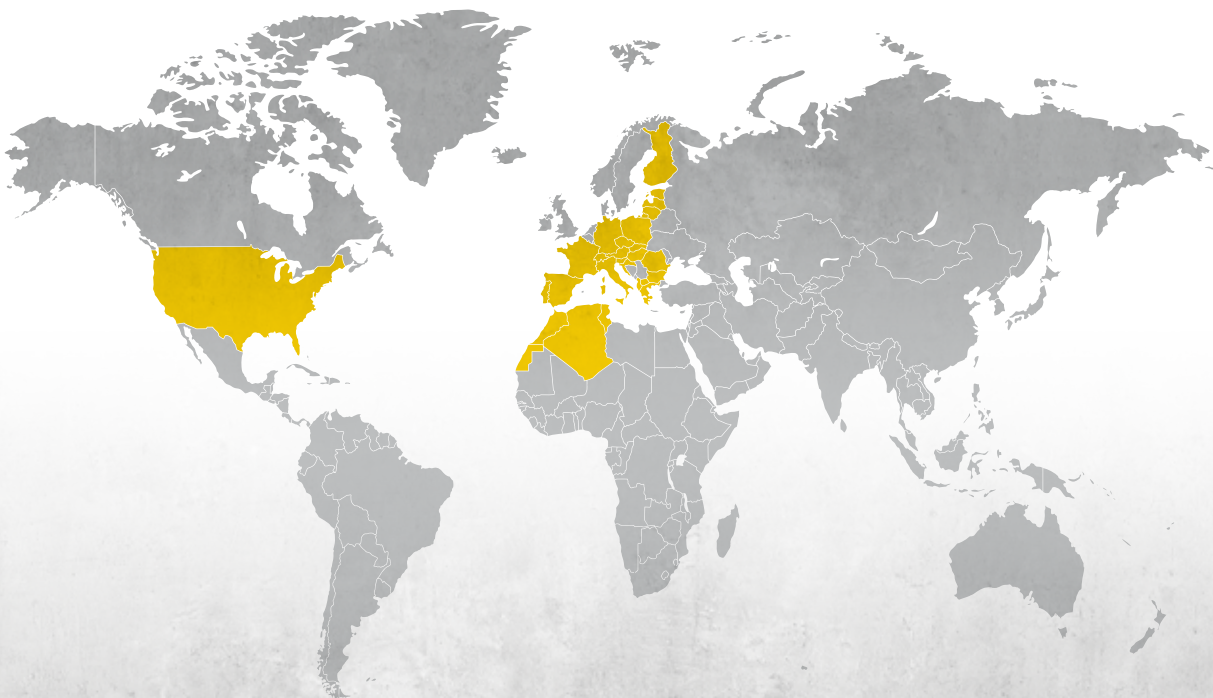
### COMMERCIAL CONSULTING

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

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### TECHNICAL SUPPORT

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



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