The perfect solution for flat roofs

Sun Ballast, supports for photovoltaic systems Nothing to Assemble
Zero holes in the roof
The simplest and fastest structure for modules on flat roofs

Three good reasons why you should use Sun Ballast®:

Reduce installation times by up to 70%
Practical and affordable system.
M8 bushings already inserted in the ballast.
No holes in the roof.

More energy in smaller spaces
A wide range with 10 tilt angles available, from 0° to 35°.
Special tilt angle, weight, and size solutions upon request.

Solutions for strong wind loads
Free technical consulting service with tests in the wind tunnel.
SUN BALLAST holds a position of highlight on the market, as its products are easy and quick to install. The Sun Ballast assembly system serves as a support and ballast for the photovoltaic module. With 10 tilt angles ranging from 0° to 35° for vertical, horizontal, and east/west installation, Sun Ballast reduces installation times by up to 70%.

The Sun Ballast system has succeeded in all the tests carried out in the wind tunnel, and is the only system that can modulate the weight based on the requirements and structural constraints of the roof. The patent of this innovative project is owned by Basic S.r.l., an Italian company, which is consolidating its presence in the photovoltaic accessory industry.

Sun ballast is the only system that can modulate the weight based on the requirements and structural constraints of the roof.

The Sun Ballast assembly system has allowed the company to expand its client base and become an efficient alternative to major players in the industry. Sun Ballast products are the result of years of experience of its creators who have dealt with a variety of installation and support issues.

This has driven them to find new solutions, and create a system that combines safety and practicality, whilst facilitating designers, installers, and maintenance technicians.

Find out all our solutions and structures for flat Surfaces.
CONNECT SYSTEM
STRENGTH AND SPEED
ASSEMBLY HAS NEVER BEEN SO EASY

The new Sun Ballast-Connect system has allowed us to take another step forward in our corporate mission i.e., helping reduce renewable energy costs in order to be self-sufficient.

Those who choose our new Sun Ballast-Connect system will be happy with the results.

From a technical point of view, this system has improved wind resistance with less load on the roof (kg/sq.m). As a result, this system facilitates the installation of the photovoltaic system on flat roofs.

In economic terms, you will reduce purchase, transport, and installation costs.

Connect system

The new Sun Ballast-Connect system creates a grid of connected ballasts and modules, which connect the rows between them. This ensures high wind resistance while reducing weight (kg/sq.m).

The new system’s ballast is equipped with a retainer that secures the module, preventing it from decoupling, and improves the seal.

Connect ballast is ideal for any type of module with a frame to be installed horizontally. The distance between the rows depends on the size of the module. Therefore, all you have to do is square the first row, and the rest will be as simple and quick as ever.

Overall, the ballast and module system provides the roof with a load of about 14-15 kg/sq.m. The available tilt angles are the following: 5°, 10°, 15°, 20° and 30°.

The new system has undergone numerous tests with fluid-dynamic simulators, including yield strength tests.
RESISTANCE

SOLUTIONS FOR STRONG WIND LOADS
EXCLUSIVE SOLUTIONS FOR PHOTOVOLTAIC SYSTEMS SUBJECT TO STRONG WIND LOADS

All Sun Ballast models are designed to increase wind load resistance.

The use of guards, rebars, plates, junction profiles, and additional weights, together with the positioning system with east-west orientation allows us to achieve this goal.

As a matter of fact, Sun Ballast is the only system that can modulate the weight based on the requirements and structural constraints of the roof.

Our technical office is at your disposal for free consultation during the quotation and installation stages.

Sun Ballast with windbreaker

The windbreaker reduces the impact surface and improves aerodynamics, thus increasing wind load stability, without adding any weight to the structure.

East/West Sun Ballast

Our ballasts allow for east/west installation. Moreover, they ensure increased wind load stability, as they can be joined with specific plates, thus reducing space and shadow issues. This solution can improve self-consumption performance and optimise purchase costs.

Sun Ballast with profiles and weights

The system with additional profiles and weights from 35 to 50 kg is commonly used in perimeter areas, which are the most stressed by the wind. The weighted distribution of loads improves the resistance, without overloading the roof.
POWER

MORE ENERGY IN LESS SPACE

5° sail-shaped system
CODE 23005 - 23005.6

*Installation type:*
Sail-shaped system
From 1 to 6 modules
Horizontal and vertical installation

The joining plate for sail-shaped systems helps increase wind resistance.
THE BEST SOLUTIONS TO OPTIMISE SPACE

With Sun Ballast sail-shaped systems (5°/11° and 0°) you will obtain more energy in less space.

Those who have been working in the photovoltaic industry for a while know which critical aspects they have to face during the installation stage, especially when it comes to positioning the system.

They often have to solve space issues to meet the power required by the client. High railings, chimneys, air conditioning systems can make things even worse.

Finding the best solution means gaining an advantage that can be the key to getting a job and obtaining the utmost efficiency from the system.

11° sail-shaped system
CODE 23011 - 23011.3

Installation type:
Sail-shaped system
From 1 to 3 modules
Horizontal installation

0° Ballast
CODE 23000.K

Installation type:
Horizontal and vertical installation
ADAPTABILITY

THE IDEAL SOLUTION FOR SHADED AREAS
IS SHADE A PROBLEM?
WE HAVE THE SOLUTION

Sun Ballast sail-shaped systems (5°/11°) exploit the entire roof surface to facilitate and optimise the installation of the photovoltaic system.

These systems recover the area, which is usually left for the shading between the rows.

We can install about 20% more modules in the same space compared to a traditional system. Moreover, if they are used in shorter sail-shaped panels or in single rows, they lift the front side of the system by up to 60 cm from the surface, thus reducing the exposure to shade provided by other structures (railings, chimneys, etc.).

Single-row 5°
Sun Ballast

Installation type:
Single row or with shorter sail-shaped panels Horizontal and vertical installation

Single-row 11°
Sun Ballast

Installation type:
Single row or with shorter sail-shaped panels Horizontal installation
0° Ballast  
CODE 23000  

Weight: 16 kg

0° K Ballast  
CODE 23000.K  

Weight: 30 kg

3° Ballast  
CODE 23003  

Weight: 18 kg

8° Ballast  
CODE 23008  

Weight: 34 kg

3° K Ballast  
CODE 23003.K  

Weight: 41 kg

5° sail-shaped system  
CODE 23005 - 23005.6  

<table>
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<td>5°.6</td>
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10° Ballast  
CODE 23010 con CARTER  

Weight: 53 kg
10°.1 Ballast  
CODE 23010.1

Weight: 60 kg

20° Ballast  
CODE 23020

Weight: 54 kg

11° sail-shaped system  
CODE 23011.K - 23011.3

11°.K 1° row  CODE 23011.K  42 kg  
11°.2 2° row  CODE 23011.2  41 kg  
11°.3 3° row  CODE 23011.3  61 kg

30° Ballast  
CODE 23030

Weight: 48 kg

30°1 Ballast  
CODE 23030.1

Weight: 58 kg

15° Ballast  
CODE 23015

Weight: 47 kg

Key

- Gray: suitable for shaded areas
- Black: suitable for windy areas
- Recycle: available with 80% recycled material
- Triangle: low loads on the roof
- Pitched roof: pitched roof
**35° Ballast**  
CODE 23035.1

- Weight: 60 kg

**35 kg Weight**  
CODE 23035

**50 kg Weight**  
CODE 23050

- Key:
  - suitable for shaded areas
  - suitable for windy areas
  - available with 80% recycled material
  - low loads on the roof
  - pitched roof

**Connect Ballast**

<table>
<thead>
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<th>Angle</th>
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<th>Code</th>
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