



Made to last
Patented systems

IDEAL RACKING

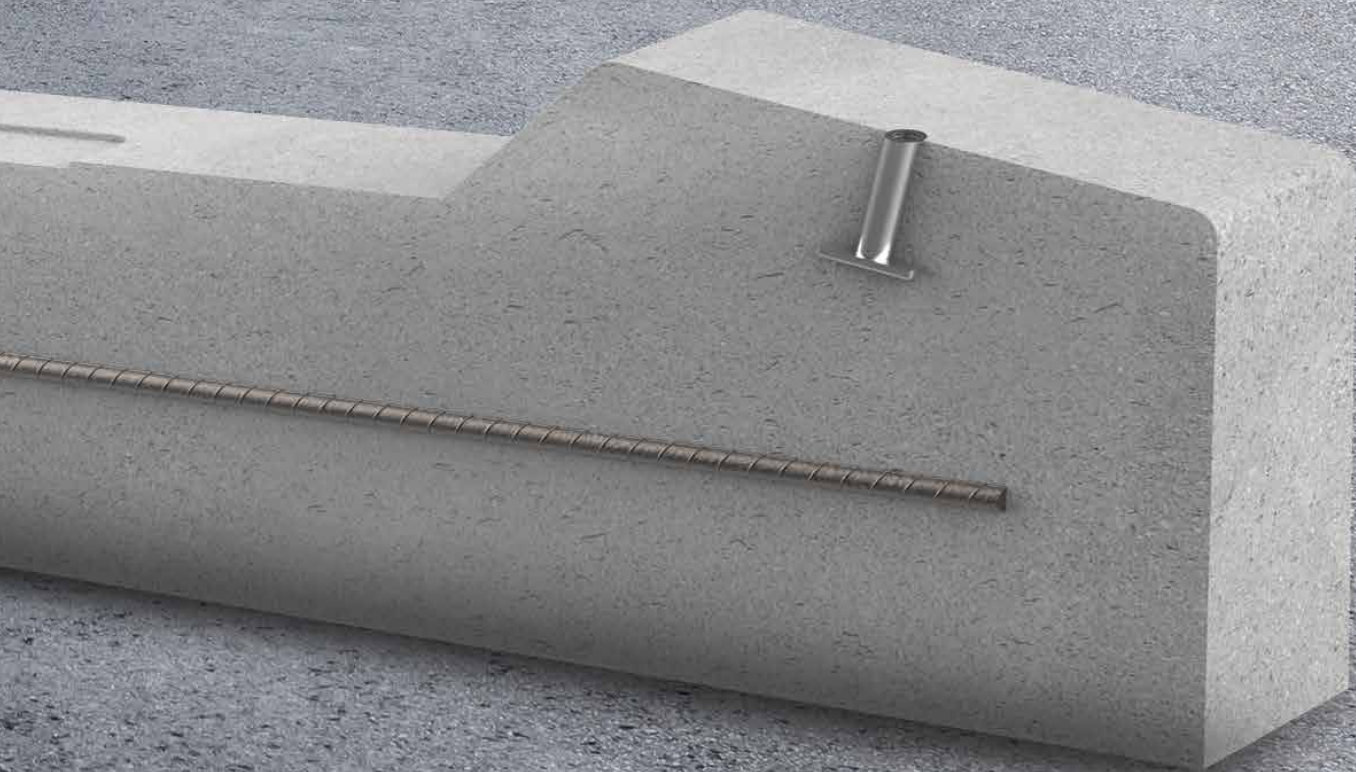
FOR SOLAR PANELS
ON A FLAT ROOF



MAD E T



O LAST





SUN BALLAST® SIMPLICITY IN SOLID FORM



WE LOOK AT THE WORLD
WITH A VISION FOR RENEWAL,
OFFERING SIMPLE, LONG-LASTING SOLUTIONS
TO THOSE WHO HAVE MADE POWERING
THE FUTURE THEIR PROFESSION.

Born from over a decade of hands-on experience in solar system installation,
Sun Ballast® provides innovative racking solutions for flat roofs,
giving industry professionals a simpler, more reliable alternative.

With Sun Ballast®, the design and installation process becomes significantly faster and easier.
Our ballasted racking systems have already been deployed in over 50,000 photovoltaic
installations worldwide.

This is our way of driving change—providing the future’s energy leaders
and thousands of industry professionals with durable, secure,
and dependable support.

A support system made to last.

THE IDEAL STRUCTURE FOR FLAT ROOFS



OUR CONCRETE RACKING SYSTEMS
ARE TRANSFORMING THE SOLAR MOUNTING
INDUSTRY, OFFERING THE MOST EFFICIENT
AND COST-EFFECTIVE SOLUTION FOR ALL
FLAT ROOF SOLAR INSTALLATIONS

Durable, secure, and compatible with any flat surface, Sun Ballast® systems integrate both the racking and ballast function into a single product. The global success of Sun Ballast® comes from one key factor: simplicity.

Manufactured in the USA using the highest quality materials, our ballasted racking systems require absolutely no roof penetration—not even along the perimeter. Simply place them, clamp the panels to the pre-cast threaded inserts, and your installation is complete.

Driven by a passion for Research & Development and a commitment to practical, innovative solutions, Sun Ballast® racking systems are engineered for optimal performance: neither too light nor too heavy, but precisely balanced to ensure the ideal PSF and wind resistance.





MADE FOR FAST



STRUCTURES MADE TO LAST



SUN BALLAST® RACKING SYSTEMS
ARE MADE IN THE UNITED STATES
WITH HIGHLY RESISTANT CONCRETE,
INCORPORATING PRE-CAST THREADED INSERTS
AND A REINFORCED STEEL REBAR INSIDE.
BECAUSE STRENGTH IS NOT NEGOTIABLE.

Absolute quality, from the raw materials to the finished products. Sun Ballast® racking systems are made of 5000psi concrete, and thanks to the extremely low porosity of the material, they can resist even the most intense freeze thawing cycles.

A perfect solution for solar systems constructed in the most aggressive climates of the nation, such as the Mid-West and the North-East.

The reinforced steel rebar inside the concrete provides additional resistance to all mechanical stresses, and the M8 threaded inserts pre-cast into the concrete make clamping the panels down much quicker and more durable.

Sun Ballast® racking systems are designed and manufactured entirely in our factories in New Hampshire and Wisconsin, comply with all photovoltaic sector regulations and have a 25-year warranty.

RELIABLE CERTIFIED WARRANTED

ALL SUN BALLAST® SYSTEMS ARE ANSI/UL 2703 LISTED AND WIND TUNNEL TESTED BY RWDI. OUR BALLASTS ARE EXTREMELY DURABLE, ENSURING MAXIMUM SAFETY FOR YOUR SOLAR SYSTEM AND BUILDING.

Why do our ballasts come with such a long warranty?

Because we trust their quality first.

All Sun Ballast® systems are UL 2703 listed for grounding, mechanical load and fire safety, achieving a Class A fire rating. Their wind load resistance is validated through multiple rounds of wind tunnel testing conducted by RWDI, one of the most reputable wind engineering firms.

Our entire supply chain—from testing to production—is based in the USA, ensuring that Sun Ballast® racking systems qualify for domestic content, helping your project to meet the 10% Investment Tax Credit (ITC) adder under the Inflation Reduction Act (IRA).

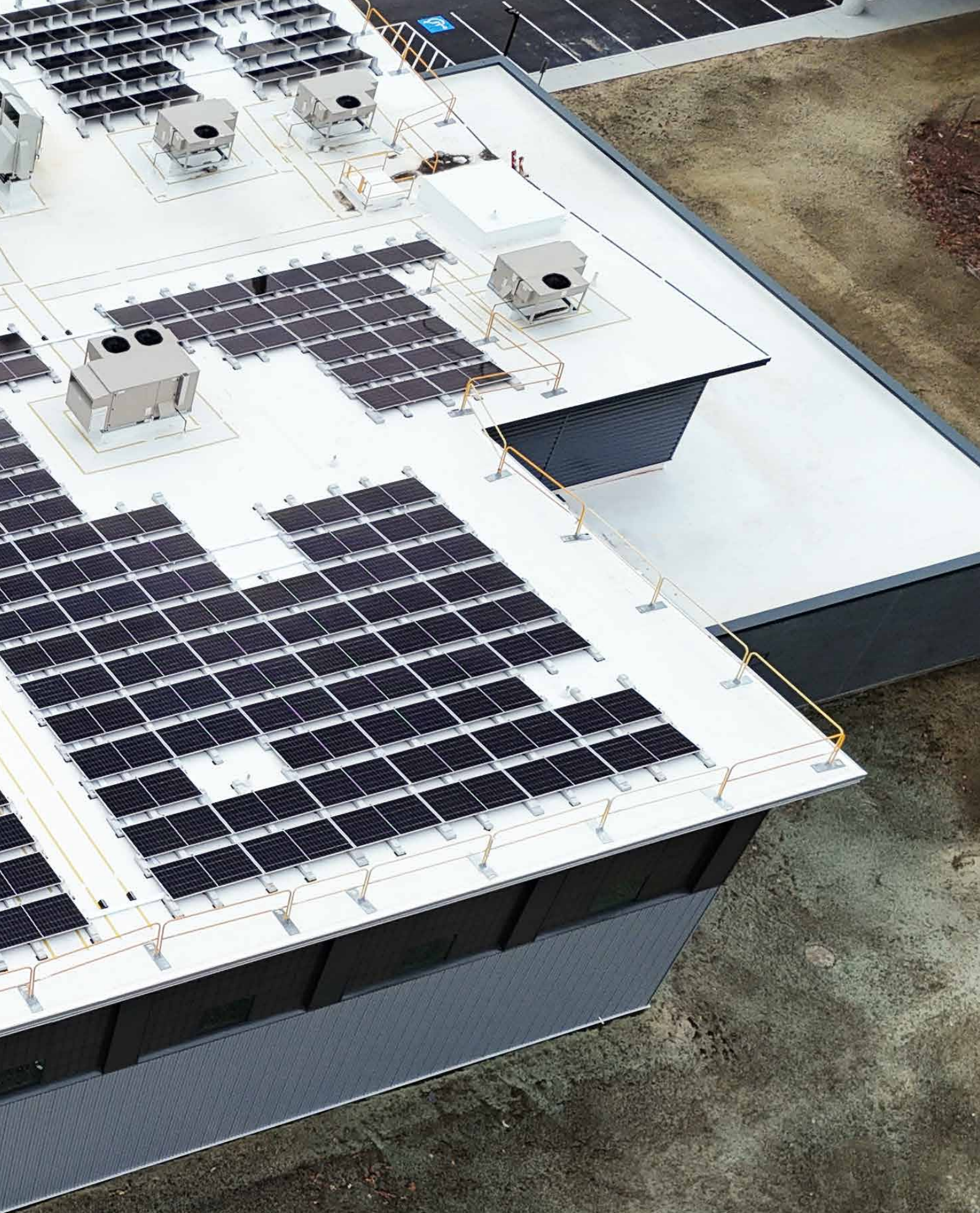
With our deep engineering expertise in flat roof solar installations, we guarantee code compliance nationwide, even in jurisdictions with the strictest AHJs. Our boundary layer wind tunnel testing (BLWT) has been peer-reviewed according to ASCE 7-16, SEAOC PV1-PV2, and IBC 2018, and our design methodology is approved by top industry professionals.







MASTER



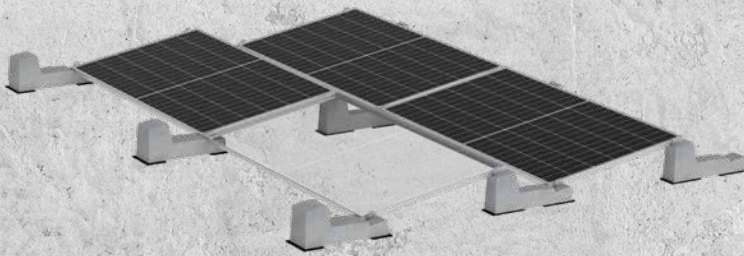
THE WIND

SUN BALLAST[®] SYSTEMS

1

Connect

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Low PSF, High Wind Resistance

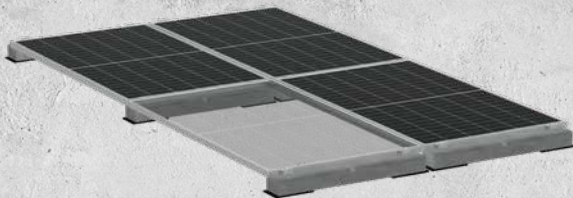
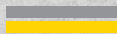
With the Connect system, all ballasts are interlinked into a single grid, evenly distributing the load across the roof and minimizing weight, while ensuring exceptional wind resistance.



2

Zero

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Fast, Reliable and Versatile

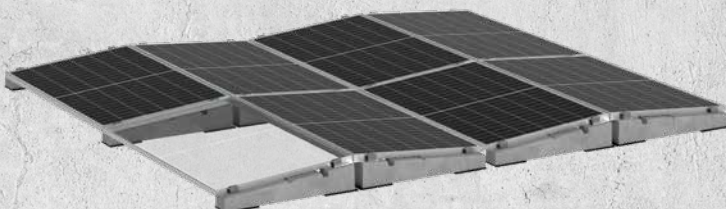
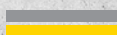
The Zero system offers a simple and flexible solution, providing maximum durability for your solar projects while ensuring a clean and aesthetically pleasing installation.



3

East-West

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Simple, Durable, and Customizable

The East-West system maximizes the use of available surface area, offering high wind resistance and fast, easy assembly.



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Accessories

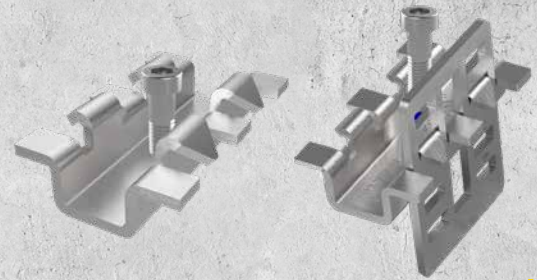
No-Flex

Maximum support, zero bending: Compatible with Connect and East-West systems, No-Flex provides large panels with two additional support points, ensuring maximum stability and durability.



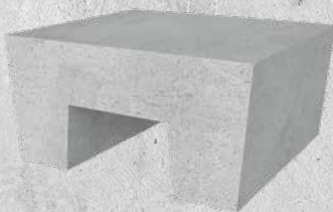
Powerclamp

Stronger fastening, faster grounding: PowerClamp brackets, made of stainless steel, ensure secure, long-lasting panel fastening and function as an electrical bridge between modules.



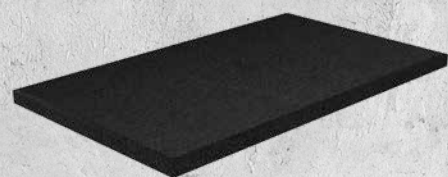
U-Block

Boosting stability made easy: U-Block additional weights are placed directly on the ballasts, requiring no assembly and quickly increasing the resilience of the PV system.



Rubber mats

Enhanced safety and surface protection: Rubber mats, placed beneath the ballasts, protect supporting surfaces while improving grip and stability.





CONNECT

LOW PSF,
HIGH
RESISTANCE



Achieving the perfect balance between high resistance and low PSF, the Connect system links all ballasts into a single interconnected network, ensuring even weight distribution across the entire roof surface. This design maximizes wind resistance without requiring roof penetration. Available in multiple versions, the system enables quick and effortless installation on any flat surface.

TILT OPTIONS



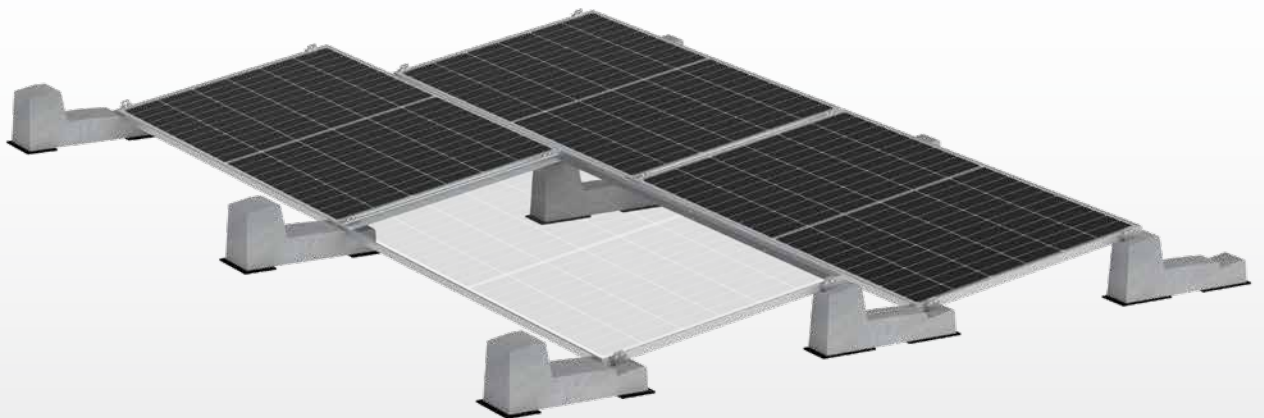
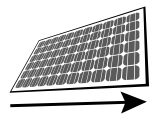
5° **10°**

WEIGHT OPTIONS



32 lbs **64 lbs** **96 lbs**

HORIZONTAL



ZERO

FAST,
RELIABLE,
VERSATILE

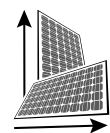


The ballasted Zero system simplifies both the installation and design phases. Its racking systems allow panels to be clamped on either the long side or the short side—even within the same installation. With zero row-spacing, it maximizes power density for optimal energy output. Designed for exceptional wind resistance, these structures are also suitable for residential installations, making efficient use of available space while ensuring a clean and aesthetically pleasing setup.

TILT OPTIONS

0°

VERTICAL
HORIZONTAL

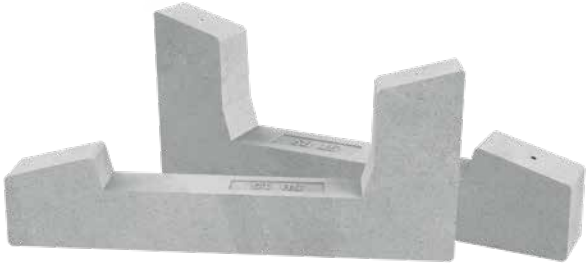






EAST-WEST

SIMPLE,
DURABLE AND
CUSTOMIZABLE

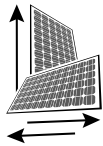


Maximum space efficiency and long-term durability: The East-West system is compatible with various ballasted racking systems and minimizes row-spacing, making the most of the available roof surface. With no roof penetration required, installation is faster and easier, while ensuring high wind resistance for a secure and reliable solar setup.

TILT OPTIONS

5° 10°

VERTICAL
HORIZONTAL



ACCESSORIES

NO-FLEX

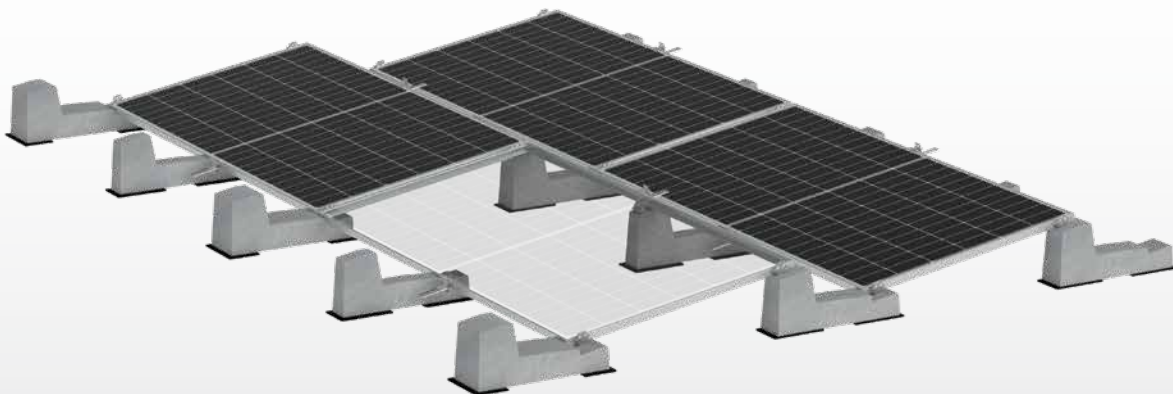
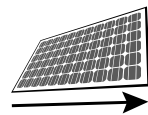


The No-Flex system provides maximum stability and resistance for your solar panels—regardless of size. The metal bracket, attached to the additional ballast, allows modules to be clamped at the center, increasing clamping points from four to six and ensuring exceptional resistance to wind and snow loads. Fully compatible with all Sun Ballast® systems, No-Flex meets the racking parameters required by any module manufacturer.

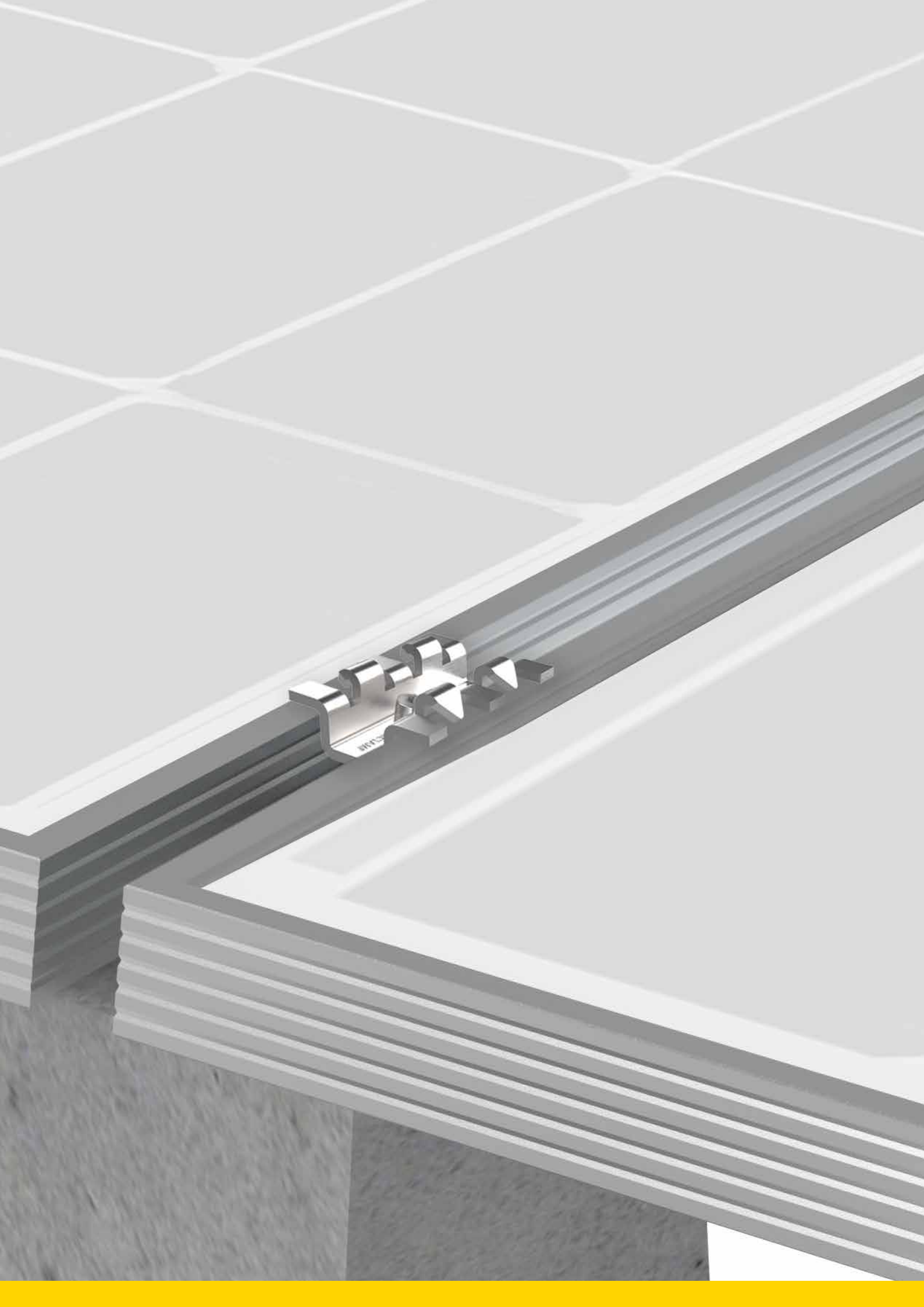
TILT OPTIONS

5° 10°

HORIZONTAL



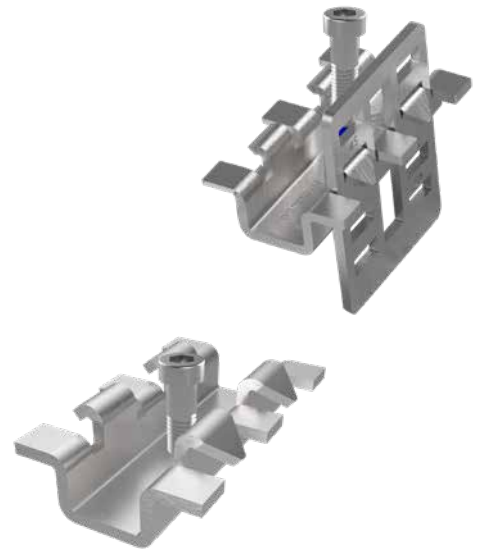




ACCESSORIES

POWERCLAMP®

The PowerClamp, developed by Sun Ballast®, ensures maximum safety for solar installations, both mechanically and electrically. Its steel teeth provide a strong, long-lasting grip on the panels and effectively bypass the module frame's anodization. Additionally, the clamp functions as an electrical bridge, making system bonding much easier and faster with the addition of 10 AWG tin-plated copper wire.



U-BLOCK

An additional U-Block weight, available in 30 kg, can easily and quickly be placed directly onto ballasts without the need for drilling, increasing the stability of the PV plant rapidly.



RUBBER MATS

Rubber mats are placed between the ballasts and the roofing material, enhancing the grip of the racking systems and preventing the concrete from coming into direct contact with the roof.



FIELDS OF APPLICATIONS

Sun Ballast® solutions enable solar installation on any flat surface—from large TPO or EPDM roofs of industrial and commercial buildings to small paved or gravel surfaces on residential homes and condos.



MEMBRANE

Sun Ballast® mounting solutions are compatible with all types of roofing membranes used in industrial and commercial buildings—including TPO, EPDM, and PVC. They can be easily repositioned without causing any damage to the material.



GRAVEL

The ballasts can be placed directly on the gravel or on the underlying layer, streamlining assembly and reducing installation time.

No penetrations needed—even in areas most exposed to wind—ensuring a simple and fast installation, even on delicate surfaces. For roofs with reduced load capacity, any commercially available anchoring system can be easily integrated.



GREEN ROOFS

The ballasts are corrosion-resistant and can be used on green roofs, ensuring maximum system longevity while providing vegetation with protection from direct sunlight and extreme weather conditions.



GROUND

After minimal soil preparation, the ballasts can be placed directly on the ground without mechanical attachments, providing exceptional resistance to all weather conditions.

360° SUPPORT FROM DESIGN TO ASSEMBLY



SUN BALLAST® TECHNICAL DEPARTMENT TEAM PROVIDES FAST AND FREE ASSISTANCE TO ALL PROFESSIONALS, COVERING EVERYTHING FROM SIZING CALCULATIONS TO TECHNICAL REPORTS STAMPED BY LICENSED ENGINEERS IN ALL 50 STATES.

Fast, free and professional, Sun Ballast® technical department offers comprehensive support from the initial design phase to the final panel installation. We provide ongoing guidance, assisting our customers with practical recommendations for system design, helping them select the most cost-effective technical solution, and maximizing the benefits of our racking systems.

Each technical report includes wind and sizing calculations, signed by PZSE engineers licensed in all 50 states, ensuring that solar installations achieve the highest standards of safety, performance, and durability.



MADE TO LAST



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Patented systems

DISTRIBUTION NETWORK IN CONSTANT EXPANSION



BASED IN THE NORTHEAST,
SUN BALLAST® DISTRIBUTION NETWORK
IS CONTINUOUSLY GROWING,
ENSURING OUR BALLASTED RACKING SYSTEMS
ARE READILY AVAILABLE
ACROSS MULTIPLE REGIONS
IN THE UNITED STATES.

Beyond simplicity and construction quality,
we prioritize product availability and rapid delivery.
Providing professional support also means ensuring a fast,
accurate, and punctual commercial and logistical service.

For this reason, Sun Ballast® offers a dedicated support team,
at your disposal for every stage of the order process
— from quote requests to material delivery.

With manufacturing facilities in New Hampshire and Wisconsin,
we provide efficient logistical support throughout the Northeast.

Thanks to our rapidly expanding distribution network,
Sun Ballast® racking systems
can now reach any part of the United States.



SOLID AS M



MOUNTAINS

CONTACTS

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