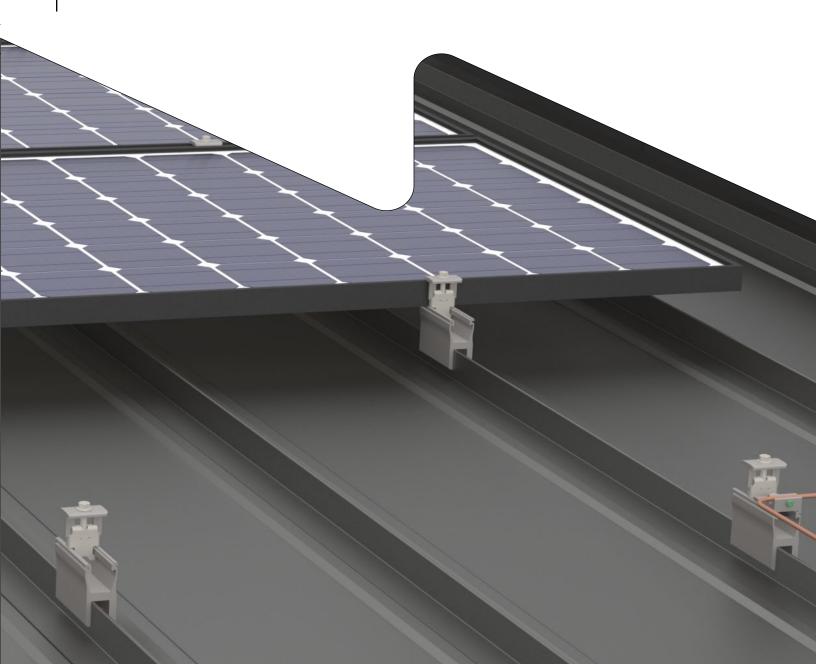


Standing Seam Rail-less

ASSEMBLY INSTRUCTIONS



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Quality tested - several certifications

K2 Systems stands for secure connections, highest quality and precision. Our customers and business partners have known that for a long time. Independent institutes have tested, confirmed and certified our capabilities and components.

Please find our quality and product certificates under:

https://k2-systems.com/en-us/company/quality-management/

Engineering strength is at our core

With sophisticated product innovations and a deep customer focus, K2 Systems is the engineering leader for all your mounting system needs. We are a market leader with more than 32 GW installed worldwide.

We offer proven product solutions and innovative designs. Wind tunnel testing along with advanced structural and electrical validation to facilitate permitting, design and installation. Our designs result in cost competitive racking systems with dedicated support that will position you to win more projects.

We partner with our customers and suppliers for the long-term. High quality materials and cutting edge designs provide a durable, yet functional system. Our product line is comprised of a few, coordinated components that lower the cost of materials, and simplify installation, saving you time and money. All backed by German engineering, a long track record of quality and a company that is here to stay.

Thank you for choosing K2 Systems for your Solar PV Project.

General Safety Information



Please note that our general mounting instructions must be followed at all times and can be viewed online at https://k2-systems.com/en-us/resource-center/download-library/

/The equipment may only be installed and operated by qualified and adequately trained installers.

Prior to installation, ensure that the product complies with onsite static loading requirements.

For roof-mounted systems, the roof load-bearing capacity must always be checked.

/National and local building regulations and environmental requirements must be adhered to.

/Compliance with health and safety regulations, accident prevention guidelines and applicable standards are required. /Protective equipment such as safety helmet, boots and gloves must be worn.

/Roofing works must be in accordance with roofing regulations utilizing fall protection safeguards when working at heights of 6 feet or more above a lower level.

/At least two people must be present for the duration of the installation work in order to provide rapid assistance in the event of an emergency.

/K2 mounting systems are continuously developed and improved and the installation process may thereby change at any time. Prior to installation consult our website at:

https://k2-systems.com/en-us/resource-center/download-library/.

We can send you the latest version on request.

/The assembly instructions of the module manufacturer must be adhered to.

/Equipotential bonding/grounding/earthing between individual parts is to be performed according to country specific

standards, as well as national laws and regulations.

/At least one copy of the assembly instructions should be available on site throughout the duration of the installation.

/Failure to adhere to our general safety and assembly instructions and not using all system components,
 K2 is not liable for any resulting defects or damages. We do not accept liability for any damage resulting in the use of competitor's parts. Warranty is excluded in such cases.

/If all safety instructions are adhered to and the system is correctly installed, there is a product warranty entitlement of 25 years! We strongly recommend reviewing our terms of guarantee, which can be viewed at https://k2-systems.com/en-us/resource-center/download-library/. We will also send this information on request.

/Dismantling of the system is performed in reverse order to the assembly.

/K2 stainless steel components are available in different corrosion resistance classes. Each structure or component must be carefully checked for possible corrosion exposure.

The following guidelines apply



The system can be installed according to the following conditions. Even if the system is capable of meeting higher demands by integrating safety standards, contact your contact at K2 Systems if the specified values are exceeded.



Roof requirements

/The structural integrity of the roof must be checked on site and approved by a licensed structural engineer.

/Compatible metal roof panel profiles: Single Lock (90 degree), Double Lock, Trapezoidal.

/Minimum thickness of metal panel: 24 gauge

/Roof slope: >70 - 450

/Roof max height: 60ft



Important mounting instructions

/Modules must be mounted in landscape orientation

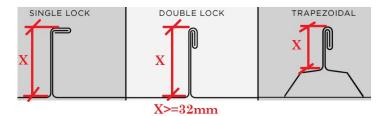
/Seam height must be a minimum of 1.25"



Structural Requirements

/Max wind speed: 180mph

/Ground snow load: 0 - 40 psf



Bonding and Grounding



Proper bonding and grounding means are required by regulation. Information provided in this manual should always be checked against local and national building codes.

K2 Systems has obtained a UL 2703 system listing from Underwriter's Laboratories (UL).

An example electrical landing path diagram is shown in Figure 1 below. Your specific installation may vary, depending on site conditions and the requirements of your appropriate authority.

Each electrical connection has been rated with a maximum fuse capacity of 30A. At least one K2 Ground lug must be used for each column of modules. When installed in accordance with these assembly instructions, all connections meet the requirements of their appropriate authority.

This mounting system may be used to ground and/or mount a UL 2703 compliant PV module only when the specific module has been evaluated for grounding and/or mounting in accordance with the included instructions.

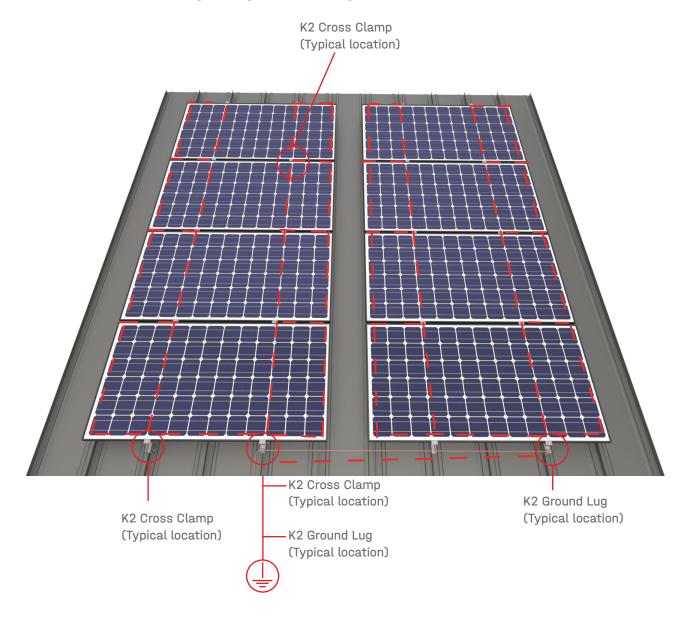


Figure 1: Ground connection through a K2 Ground Lug shown in red. For certain local regulations, bond and ground connections are identified in typical locations.

Fire Rating



The Standing Seam Rail-less system has been tested for fire performance in accordance with UL 2703, Fire Performance. A Class A fire rating of the system is obtained when the Standing Seam Rail-less is used under the following conditions:

/Roof slope of 1.40% or greater (0.17" rise per linear foot)

/Used in conjunction with a UL 2703 listed module with a Type 1, Type 2, or Type 3 fire performance rating. Consult the module manufacturer for specific fire performance rating information.

/The Standing Seam Rail-less can be mounted using any standoff height to maintain the Class A fire rating. Always refer to the module manufacturer's installation instructions to ensure your installation complies with their UL 2703 listing.

/The results of the mounting system do not improve the classification of the roof deck. All documentation can be found in the UL online database and on the K2 Systems website.

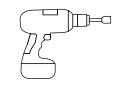
Approved Modules

To see our list of compatible modules, click this link or scan the QR code:

https://k2-systems.com/wp-content/uploads/2023/04/Approved-Modules-EN-US.pdf



Required Tools



Cordless Drill



Torque Wrench 2.9-25.8 ft-lb (4-35 Nm)

6mm Allen Socket



13mm Socket



7/16" Socket



Measuring Tape <=5m



Chalk Line

Torque

/Screws Oval 3-8in X 1.75in, 13mm according to the gauge of the sheet:

22 Gauge: 14.2 - 15 ft-lb (19.2 - 20.3 Nm) 24 Gauge: 12.5 - 13.3 ft-lb (17 - 18 Nm)

/K2 Cross Clamp Hex Head M8×50mm: 12 ft-lb (16.3 Nm)

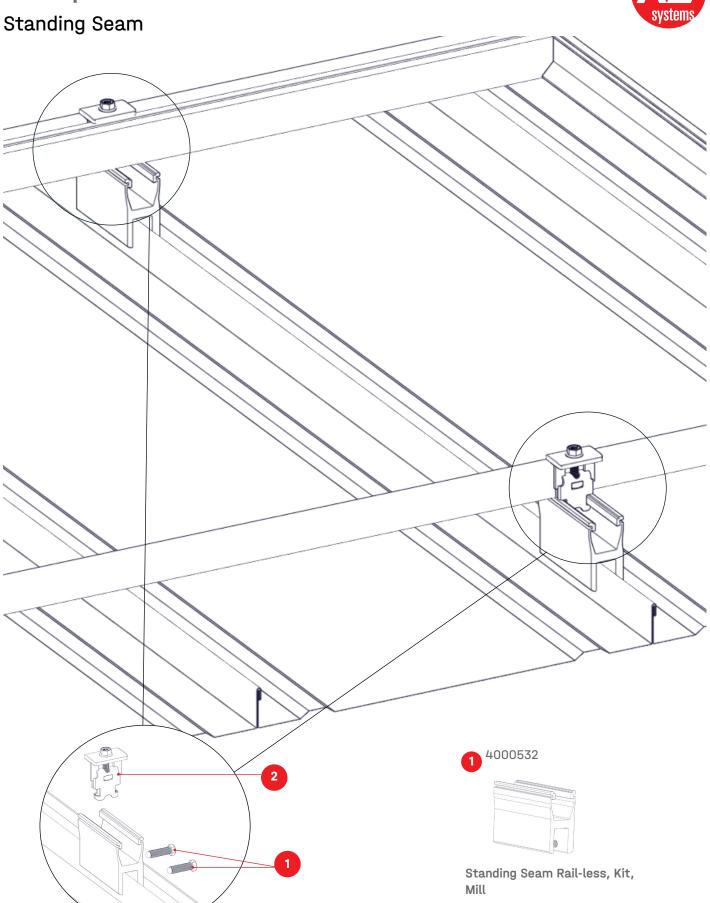
/K2 Ground Lug: M8 Hex Bolt: 10.3 ft-lbs (14 Nm), Terminal Screw: 3-5 ft-lbs (4-6.8 Nm)

/ILSCO Lug: 6.3 ft-lbs (8.5 Nm)

/MLPE, Module Frame Mount, Kit M8 Hex Bolt: 10-50 ft-lbs (6-35 Nm)

Components



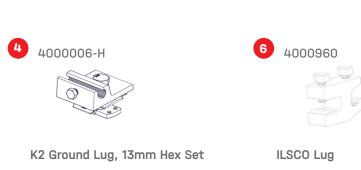


Components

System Components







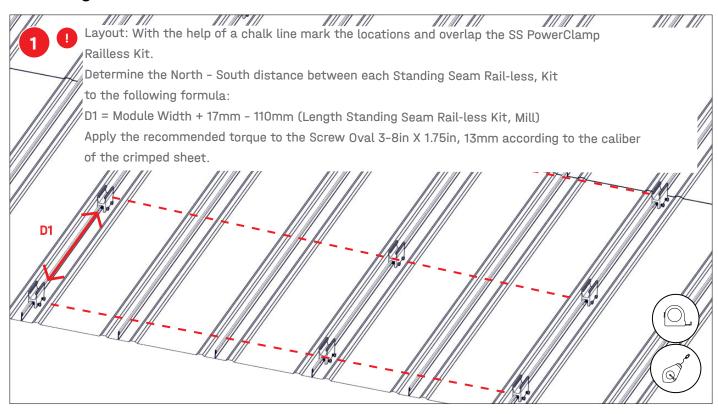


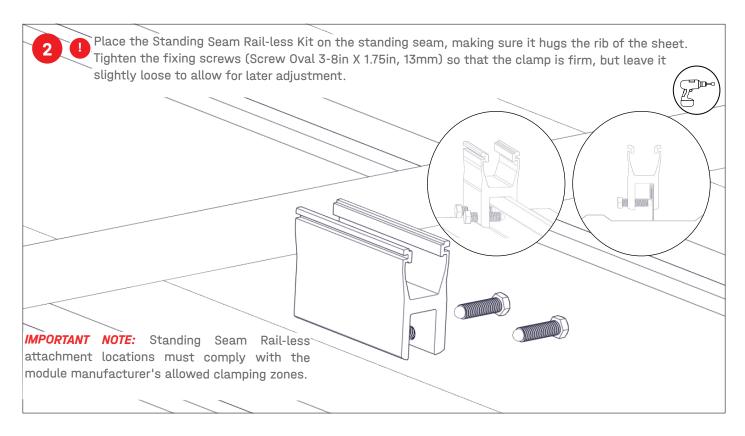
MLPE, Module Frame Mount, Kit

Assembly

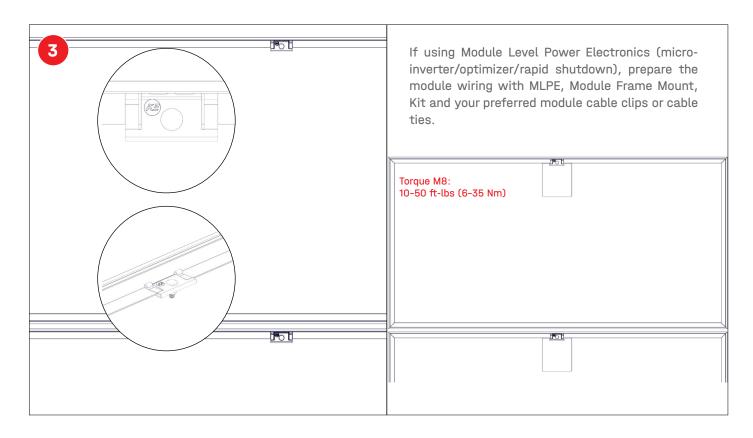


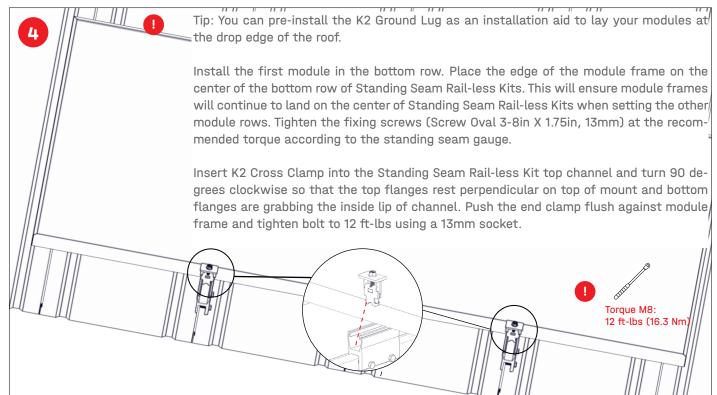
Standing Seam



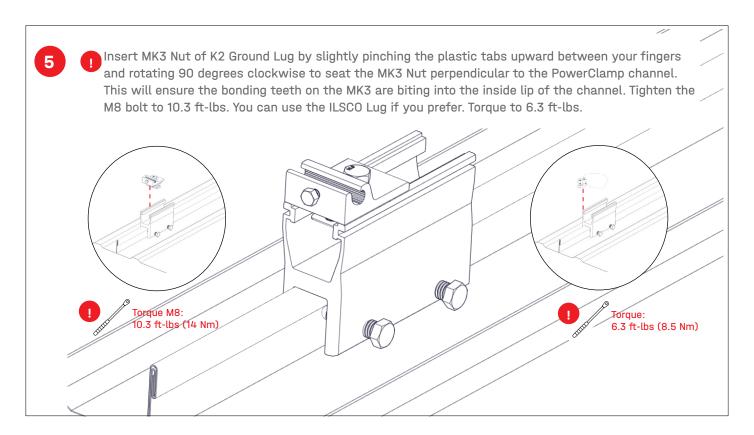


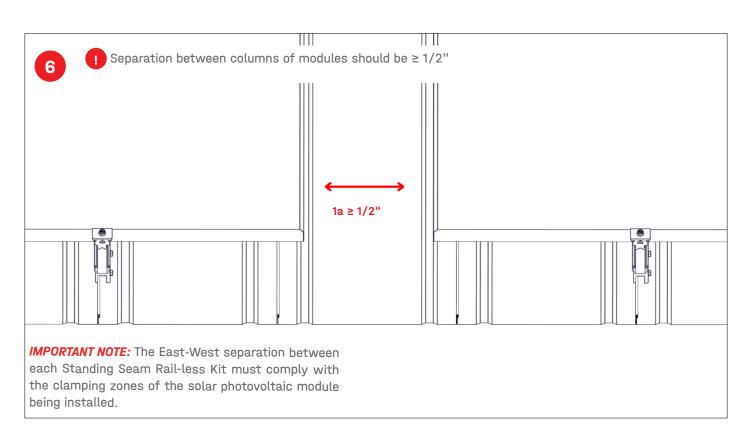




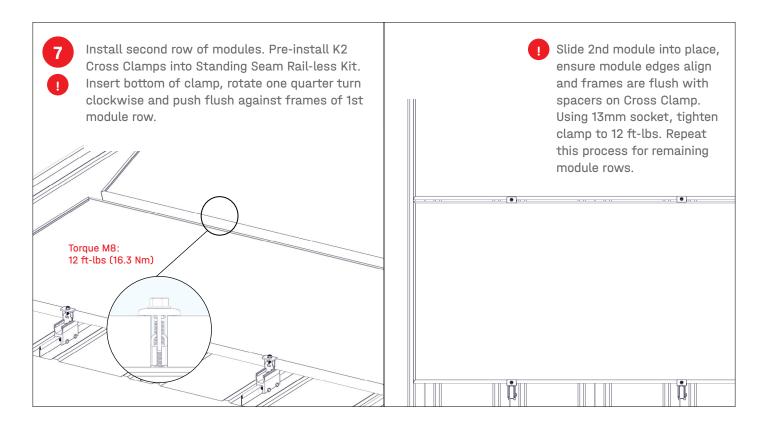


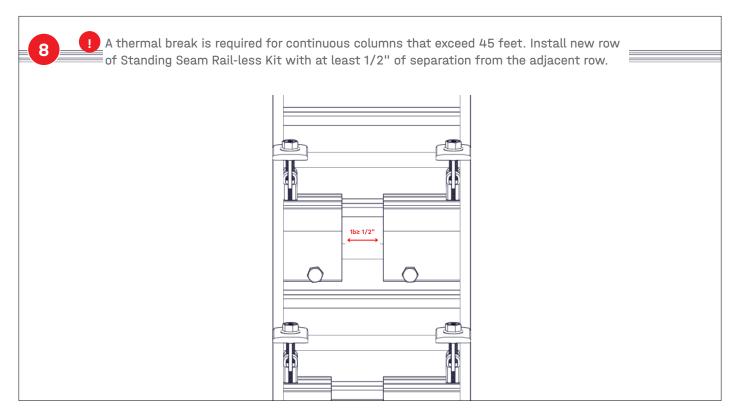




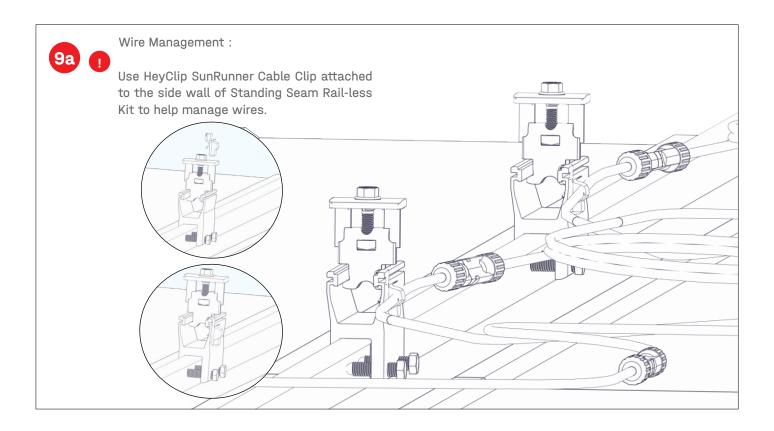


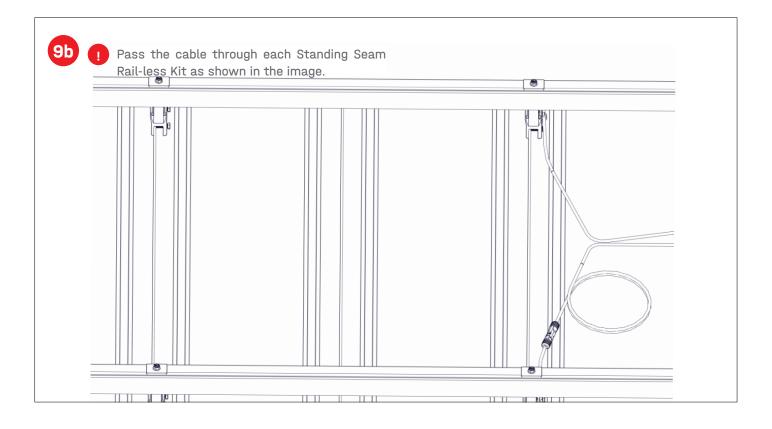




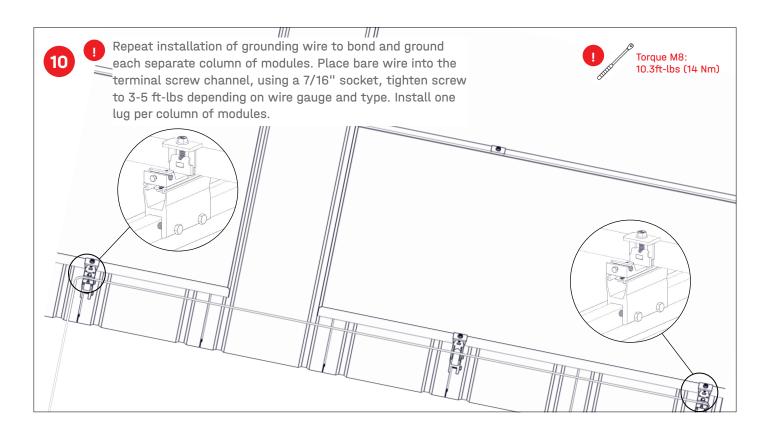


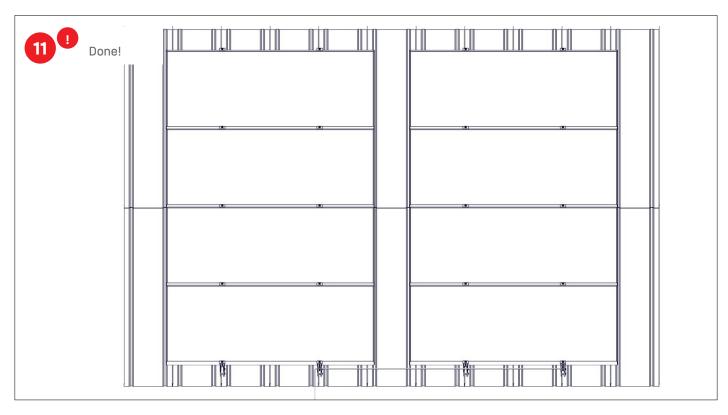






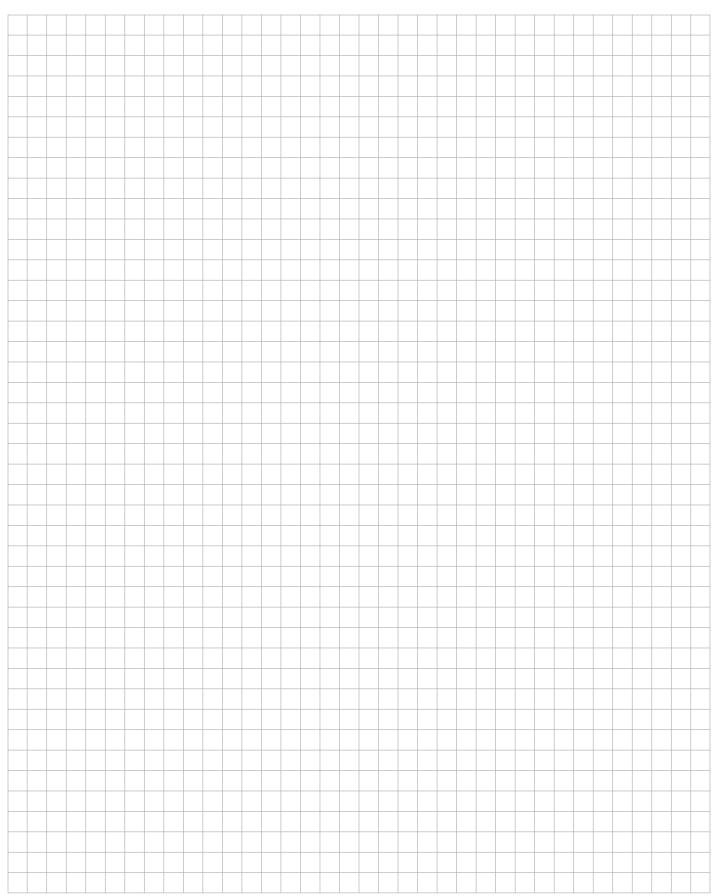






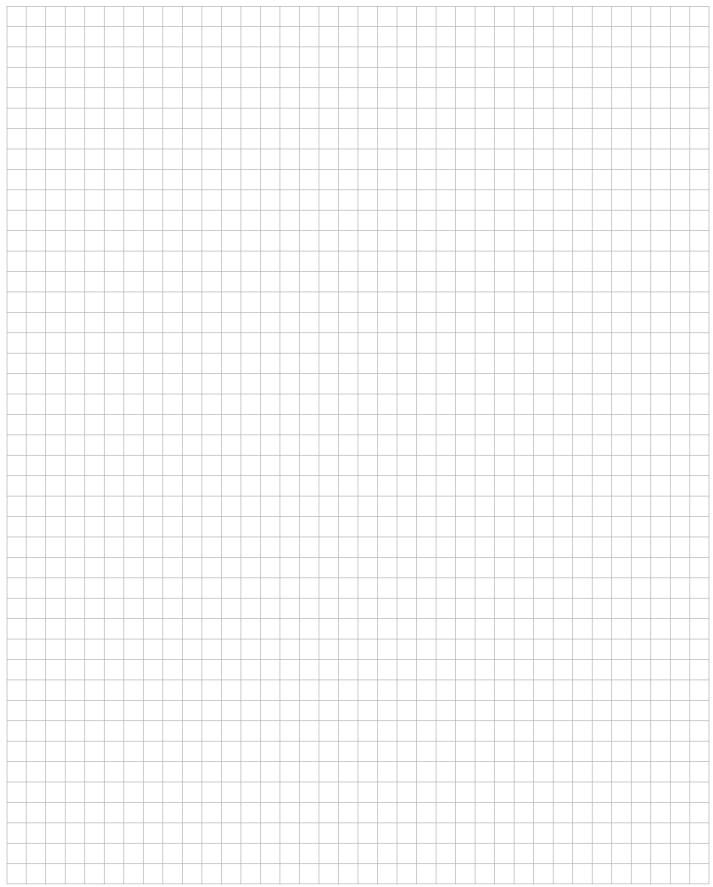
Notes





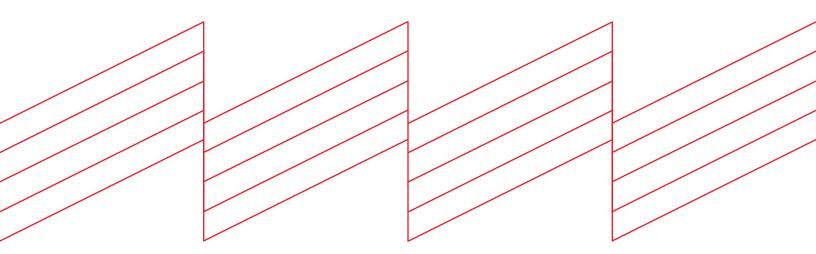
Notes







Connecting Strength



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Standing Seam Rail-less Assembly Instructions ENV3 | 0225 • Subject to change • Product illustrations are exemplary and may differ from the original.

Everest Solar Systems S de RL de CV

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Standing Seam Rail-less Assembly Instructions ENV3 | 0225 • Subjeta a cambios • Las ilustraciones del producto son ejemplares y pueden diferir del original.