MANTIS
SIDE CLIP & MID CLIP

INSTALLATION GUIDE

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QuickMount **IRONRIDGE**

MANTIS SIDE CLIP
(30MM, 32MM, 35MM & 40MM)

MANTIS MID CLIP
(30MM-40MM)

MANTIS SIDE CLIP & MID CLIP

QuickMount's Mantis Side Clip clicks onto the outer edge of the module frame, delivering a seamless, tool-free wire management solution. The Mantis Side Clip eliminates the need to secure wires to the underside of the module. The clip easily adjusts to fit 30MM, 32MM, 35MM, and 40MM frames. Mantis Side Clips can accommodate up to four (4) 10AWG wires or up to (6) 14AWG wires or equivalent bundled wire diameter. The Mantis Mid Clip is designed for situations where wire access is limited, allowing you to capture and manage missed wires without removing modules. The Mantis Mid Clip fits in between module gaps of 3/4" or larger, and can secure 1-2 PV wires up to 10AWG.

FEATURES

• Stainless steel fabrication

• Use fewer clips per install than traditional "S" Clips

• Fast, click-on installation and removal

• Mantis Side Clip locks wires into place and secures them on the side of the module frame

• Mantis Mid Clip hook feature secures missed wires in tight slack situations during or after installation

RATINGS

UL 1565 LISTED
Mantis Side and Mid Clip Conform to UL STD 1565
and is Certifed to CSA C22.2#18.5

• Operating Temperature Range: -31° to 194°F (-35° to 90°C)

• Maximum Load: 10lbs

• For outdoor use

ETL LISTED
c us
CM
Intertek

FEATURES +BENEFITS

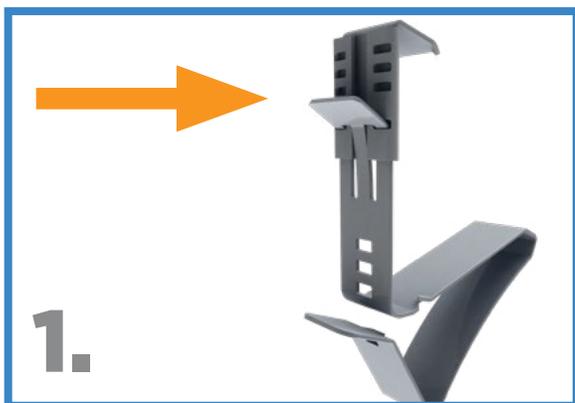# MANTIS
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ADJUSTING THE MANTIS SIDE CLIP

1. The Mantis Side Clip can be adjusted to fit module frame thicknesses of 30MM, 32MM, 35MM, and 40MM. It ships preset to 40MM. To adjust the clip for thinner module frames, depress the adjustment tab to remove it from it's locked position, then slide the adjustable top portion of the Mantis Side Clip to fit your module frame.

2. Module frame thicknesses are designated by numerical indicators inscribed on the inside of the Mantis Side Clip. Re-engage the adjustment tab in the square holes to lock the clip in place for the desired module frame thickness.

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MANTIS SIDE CLIP

1. Make sure the Mantis Side Clip has been adjusted to fit the module frame thickness. Place the Mantis Side Clip on the side edge of the module frame, with the hook's top portion resting on the top edge of the frame.

2. Roll the Mantis Side Clip so that the bottom portion clicks into place at the bottom edge of the module frame.

3. Place the wires inside the Mantis Side Clip. Secure up to four (4) 10AWG wires or up to six (6) 14AWG or equivalent bundled diameter wires inside the clip.

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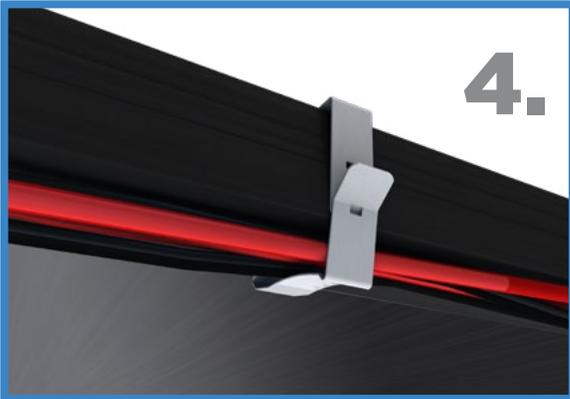## SIDE CLIP & MID CLIP
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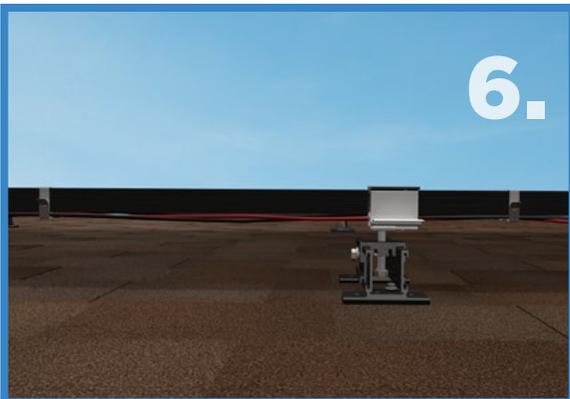
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SIDE CLIP & UNIVERSAL SIDE CLIP

4. Ratchet the clip up firmly to engage the locking tooth in one of the four holes to secure the wires.

5. To remove the Mantis Side Clip, pull the top of the clip away from the module frame. Avoid pulling from the bottom, as this may cause it to bend.

6. Space the Mantis Side Clips at a distance from each other that prevents wires from sagging or touching the roof.

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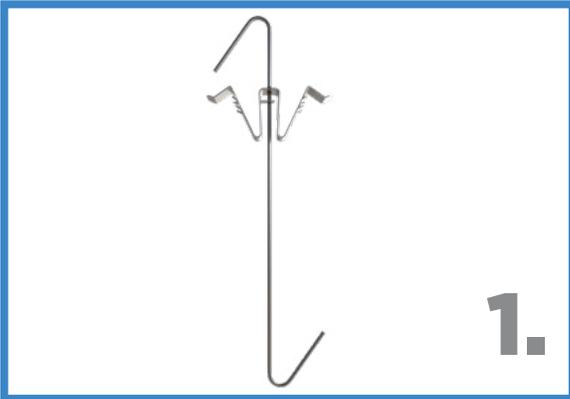### INSTALLATION GUIDE
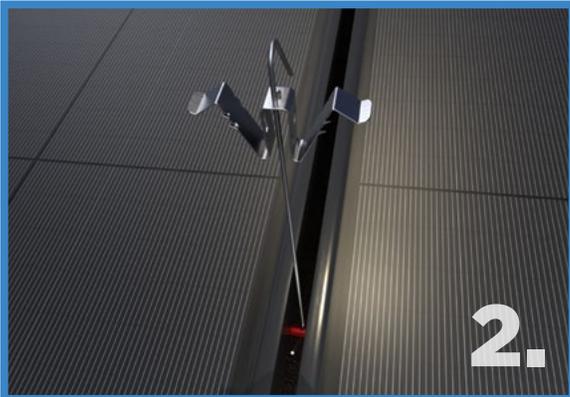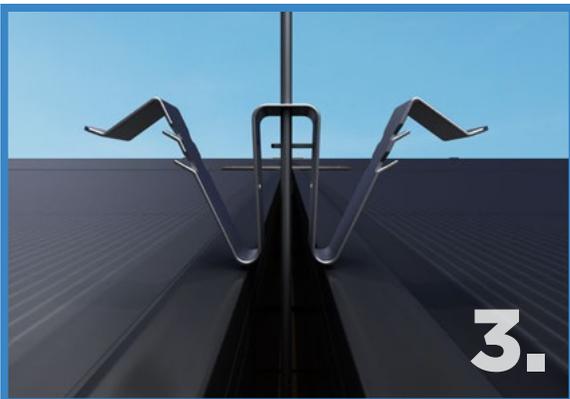
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1. Thread the hook through the hole in the center of the W clip as shown. Hold the W clip in one hand and the top of the hook in the other hand. The W clip should be facing down towards the other end of the hook.

2. Look between the module gap to locate the wire that needs to be secured underneath the array. Hook the wire and pull the wire upwards until it is against the module frame. The W clip is designed to fit in between module gaps of 3/4" or larger.

3. Slide the W clip down the hook towards the hooked wire, and align it with the module gap.
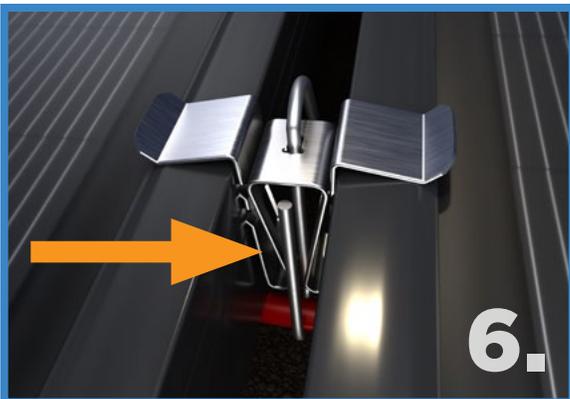
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MID CLIP

4. Wedge the W clip into place between the modules. The clip will expand and stay locked in place.

5. While maintaining upwards pressure on the wire, bend the long end of the hook over the clip and down between the modules.

6. Optionally, use your fingers to press the lower hook closed for a clean install.

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DISCLAIMER

This manual describes proper installation procedures and provides necessary standards required for product reliability. Warranty details are available on the website. All installers must thoroughly read this manual and have a clear understanding of the installation procedures prior to installation. Failure to follow these guidelines may result in property damage, bodily injury or even death.

IT IS THE INSTALLER'S RESPONSIBILITY TO:

- Ensure safe installation of all electrical aspects of the array. All electrical installation and procedures should be conducted by a licensed and bonded electrician or solar contractor.

- All work must comply with national, state and local installation procedures, product and safety standards, including the proper use of PPE.

- Comply with all applicable local or national building and fire codes, including any that may supersede this manual.

- Ensure all products are appropriate for the installation, environment, and array under the site's loading conditions.

- Use only QuickMount and IronRidge parts or parts recommended by QuickMount and IronRidge; substituting parts may void any applicable warranty.

- Review the Design Assistant and Certification Letters to confirm design specifications.

- Ensure provided information is accurate. Issues resulting from inaccurate information are the installer's responsibility.

- Ensure bare copper grounding wire does not contact aluminum and zinc-plated steel components, to prevent risk of galvanic corrosion.

- If loose components or loose fasteners are found during periodic inspection, re-tighten immediately. Any components showing signs of corrosion or damage that compromise safety shall be replaced immediately.

- Provide an appropriate method of direct-to-earth grounding according to the latest edition of the National Electrical Code, including NEC 250: Grounding and Bonding, and NEC 690: Solar Photovoltaic Systems.

- Disconnect AC power before servicing or removing modules, AC modules, microinverters and power optimizers.

- Review module and any 3rd party manufacturer's documentation for compatibility and compliance with warranty terms and conditions.

- Module mounting rails rails shall not be used as scaffolding, a roof jack, or any form of an anchoring point for roof personnel.

- Ensure that the roof is in good condition prior to installing any QuickMount or IronRidge components.

DISCLAIMER

IRONRIDGE
Make Solar **Stronger**.

IronRidge®, an Enstall® company, designs and manufactures structural hardware for residential and commercial solar systems. For almost 30 years, we have worked closely with solar professionals to build strong, simple, and cost-effective products. The QuickMount brand family of products are manufactured and sold by IronRidge.