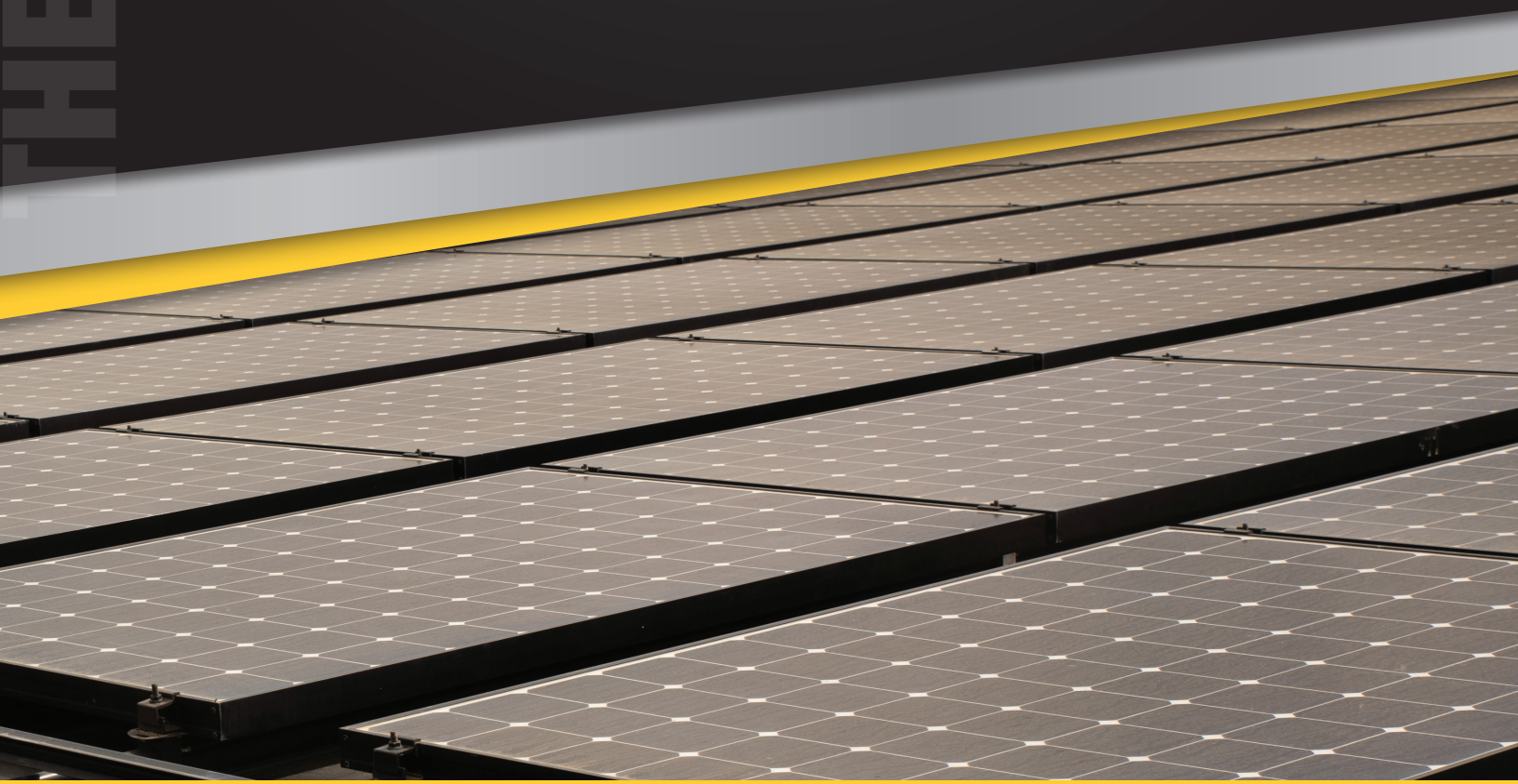
THE RIGHT WAY!®

S-5!®
The Right Way!®

SOLAR

Attachment Solutions & Products



The Right Way!® | (888) 825-3432 | www.S-5.com MADE IN THE USA

Tested. Trusted. Engineered.

For the life of the roof from the metal roof experts.

S-5!® The Right Way!®

From Simple Beginnings to Metal Roofs Worldwide...

With more than 50 patents and a nearly 30-year track record as the industry's leading provider of metal roof attachments, S-5! offers the highest-quality, made in the U.S.A., engineered products at surprisingly low costs. Our clamps and brackets make it easy to attach virtually anything to standing seam, exposed-fastened and corrugated metal roof profiles. Installed on more than 2 million metal roofs and having secured more than 4 GigaWatts of solar worldwide, S-5! is the most trusted name in the metal construction and solar industries.

Like a Saddle on a Horse

In 1992, Rob Haddock, founder and CEO, conceived a simple but powerful attachment solution idea: use a block with a slot that would straddle the seam—like a saddle on a horse. Fast-forward, and his wide array of metal roof attachment inventions continue to revolutionize the industry.

Quality Assurance: Zero Defects

- Proven performance since 1992
- Family-owned
- Certified material and manufacturing processes
- 4+ GigaWatts track record
- Load-tested for holding strength on more than 500 different roof profiles, materials and gauges
- Limited Lifetime Materials & Workmanship Warranty*
- State-of-the-art manufacturing facility
- Available at more than **50 locations** in the U.S.A. and worldwide

Extensive Quality Control Protocols

- ISO 9001: 2015
- Underwriters Laboratories
- Factory Mutual
- TÜV
- ICC-ES

"The Solar Revolution has been utilizing the S-5! PVKIT solution since it first hit the market. Hands down, it is the best solar mounting solution regardless of roof type. Our projects using the PVKIT yield the fastest installation times, lowest material cost and best aesthetics. We've taken a close look at competitor's knock-offs, and they do not compare. This is because S-5! has been creating innovative solutions for metal roofs longer than anyone else, and their expertise is unmatched."

Doug Claxton - *Principal & Founder - The Solar Revolution*

Mounting Solar ***The Right Way®.***

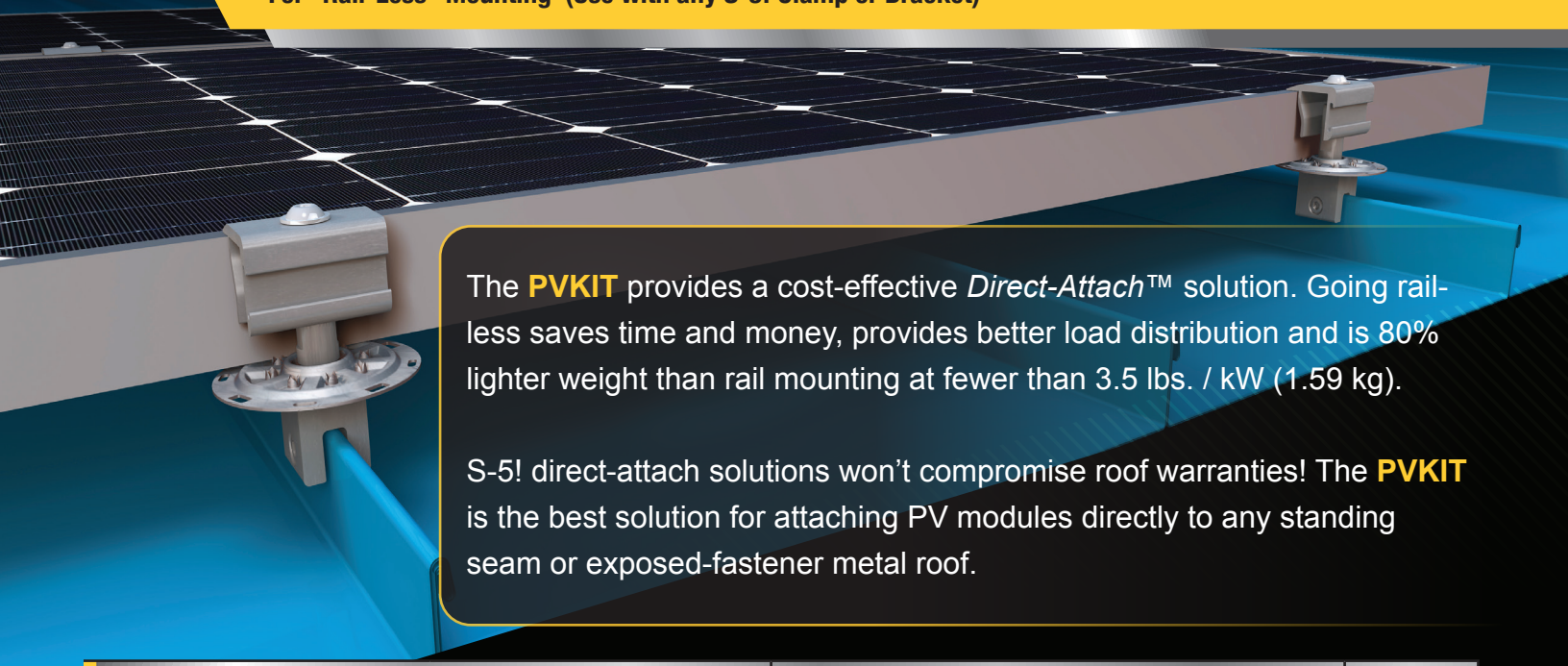
You'll never find broad, speculative advertising claims about our products.

We can prove everything we say—just ask.

*Visit our website for warranty details.

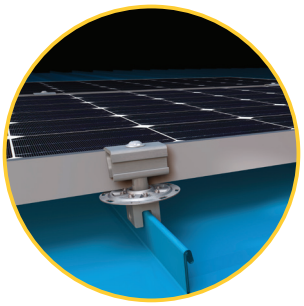
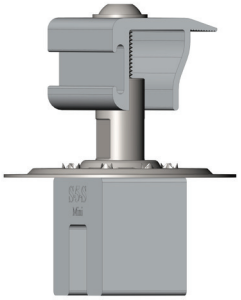
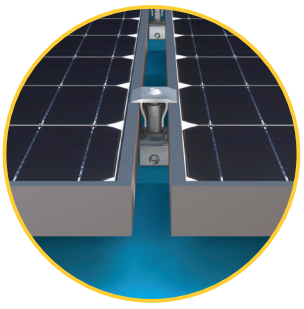
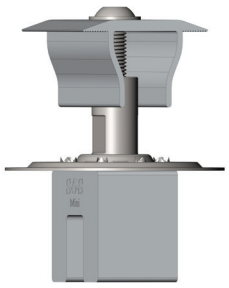
S-5! PVKIT® Solar Solution

For "Rail-Less" Mounting (Use with any S-5! Clamp or Bracket)



The **PVKIT** provides a cost-effective *Direct-Attach*™ solution. Going rail-less saves time and money, provides better load distribution and is 80% lighter weight than rail mounting at fewer than 3.5 lbs. / kW (1.59 kg).

S-5! direct-attach solutions won't compromise roof warranties! The **PVKIT** is the best solution for attaching PV modules directly to any standing seam or exposed-fastener metal roof.

Product		Features & Benefits	Minor Box *MSRP US Dollars
	**EdgeGrab** 	• Pre-assembled components–quick and easy • Versatile: same kit for 30-46 mm module frames • Only one tool needed for installation • 80% less weight • 25% better load distribution • Installs with module, reducing lay-out time • 100% aluminum & stainless components • Single-piece EdgeGrab installs with ease • UL-listed ground path; nothing else needed • Multiple slots for wire ties • Low profile hardware for flush, clean finish • Available in **black** • Allows load reduction per ASCE-7 • UL 2703 listed	**6.83**
	**MidGrab** 		

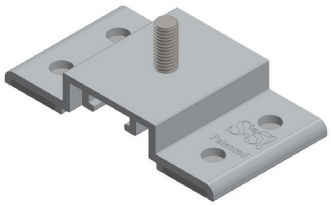
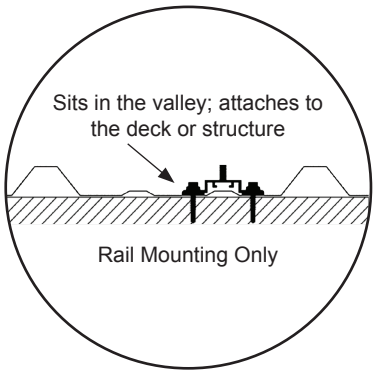
*Pricing above is in USD. Prices vary based on region and other factors. Pricing improves with order quantity. Call your Authorized S-5! Distributor

SolarFoot™

Attach rail with L-Foot. Must attach to deck or structure. (screws sold separately)

Rail-Mounted Solution:
The **SolarFoot** is compatible with almost any exposed-fastened roof profile – with the strength, testing, quality and time-proven integrity you come to expect from S-5!

Attach any rail producer's L-Foot to the roof with ease and dependability. This solution is ***The Right Way***® to secure any rail-mounted solar system to exposed-fastener metal roofs such as AG-Panel or R-Panel.

Product	Profile	Features & Benefits	Minor Box *MSRP US Dollars
		• 100% aluminum & stainless components • Compatible with all L-Foot products • Secure rail-mounted systems to trapezoidal roof profiles • Water-tight, factory-applied, butyl sealant • Integral reservoir prevents over-compressing seal • Easy-to-find load test results on website • Utilizes either two or four fasteners • Integral M8 stud and hex flange nut provided	**3.88**

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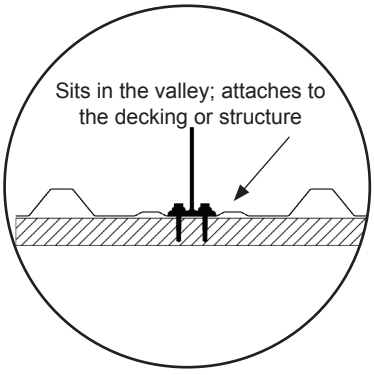
VersaGard™

Attach side-mount rail (no L-Foot required); must attach to deck or structure. (screws sold separately)

VersaGard is compatible with almost any trapezoidal, exposed-fastened profile. No messy sealants to apply! No chance for leaks! VersaGard comes with factory-applied, 40-year, butyl polymer sealant already in the base, and the **S-5!** reservoir conceals the sealant from UV exposure, preventing drying and cracking.

The circular holes in the vertical part of the bracket support up to 1" (25 mm) conduit. The diagonal slot provides height-adjustable support for PV side-mount rail via the use of 3/8″ (9.5 mm), M8 or M10 bolts.

Product	Profile	Features & Benefits	Minor Box *MSRP US Dollars
		• 100% aluminum & stainless components • Use in lieu of an L-Foot • Use with any side-mount rail system • Install either parallel or perpendicular to slope • Diagonal "slot" provides height adjustability • Water-tight, factory-applied, butyl seal • Integral reservoir prevents over-compressing seal • Load tested normal & parallel to surface • Up to six points of attachment; tested holding strength for engineered applications	**3.53**

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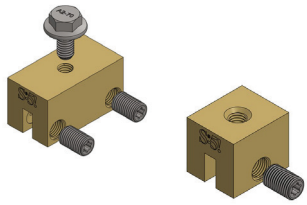
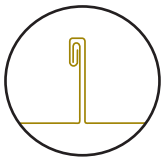
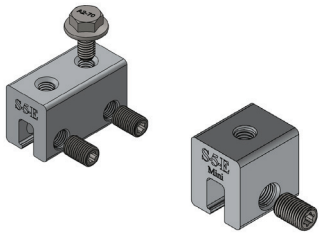
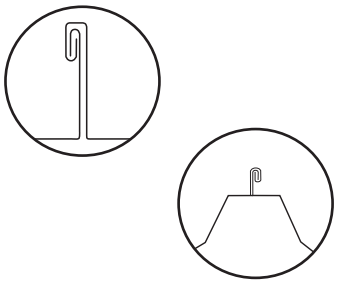
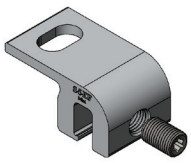
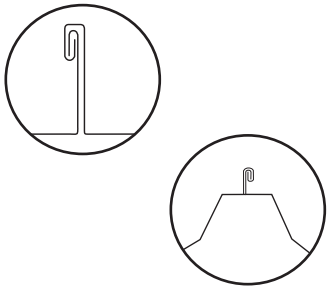
S-5! Clamps

Attach bottom-bolted rail or side-bolted rail with L-Foot or S-5! (rail-less) PVKIT. Also, attach wire chases, conduit, combiner boxes, service walkways, lightning protection, etc.

Product / Seam		Features & Benefits	Minor Box *MSRP US Dollars
S-5-B & Mini  Mini		• Brass clamps designed for double-folded, copper standing seam roofing • Metallurgical compatibility with copper • Preserves aesthetics of the copper roof	**17.41** **Mini** **12.56**
S-5-E & Mini  Mini		• Designed for double-folded, standing seam roofs popular in Europe and the world over • Comparable strength to S-5-U, but at a lower cost • Fits Butler's MR-24® and other double-folded, standing seam roofs	**4.26** **Mini** **3.03**
S-5-EF 		• Unique flange design increases ease and versatility of attachment to bottom-mount rails and other nut and bolt connections • Specifically designed for double-fold, standing seams popular in Europe and the world over, including Butler MR-24®	**3.84**

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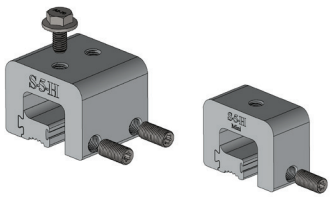
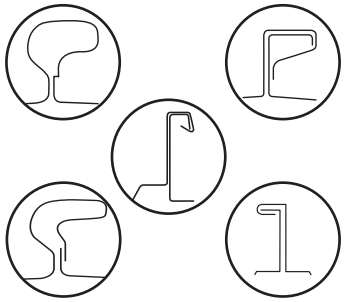
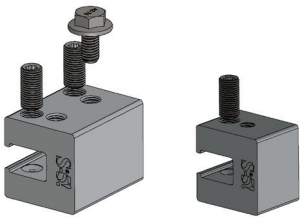
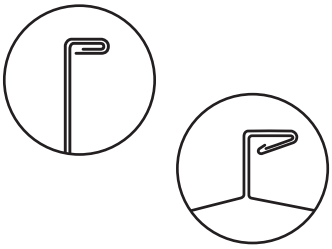
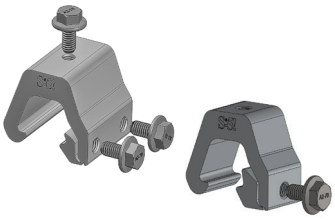
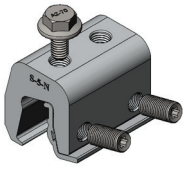
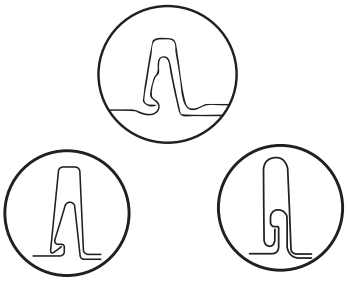
S-5! Clamps

Attach bottom-bolted rail, side-bolted rail with L-Foot or S-5! (rail-less) PVKIT. Also, attach wire chases, raceways, combiner boxes, service walkways, lightning protection, etc.

Product / Seam	Features & Benefits	Minor Box *MSRP US Dollars
S-5-H & Mini  Mini 	• Designed to accommodate roof panels with a horizontal seam not fully closed • Unique two-piece design allows attachment anywhere along the length of the seam • Insert allows clamp to fit over wider horizontal seams for fast and easy installation	**9.45** **Mini** **7.01**
S-5-H90 & Mini  Mini 	• Designed for standing seam panels with horizontal, single-folded seams • Secure and cost-effective solution for horizontal seam dimensions ≥ 0.65”(16.5 mm) • Fits all seams the that S-5-U fits horizontally and more cost-effective	**5.50** **Mini** **3.51**
S-5-K Grip & Mini  Mini **Inserts for the S-5-K Grip** S-5-GX 10 S-5-GX 50 **Inserts for the S-5-K Grip Mini** S-5-GXM 10 S-5-GXM 50 	• Developed to fit Klip-Rib®, KlipLok® and other bulb type snap-together profiles • Design utilizes multiple inserts (sold separately) to accommodate various rib dimensions • Mounting bolt directly over center of seam	**7.06** **Mini** **4.23**
S-5-N & Mini  Mini 	• Special design for “nail-flange” SSR profiles ≤ 1” (25 mm) in height • Angled setscrews for easier installation; no special tools required • Fits seam profiles having base of rib dimension < .82” (20 mm) • Clamp insert facilitates best fit without damage to panel seam • New design ensures straight clamp position on seam	**5.12** **Mini** **4.51**

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S-5! Clamps

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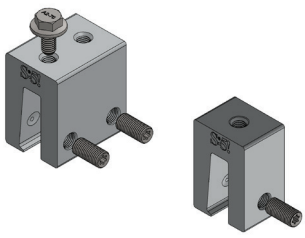
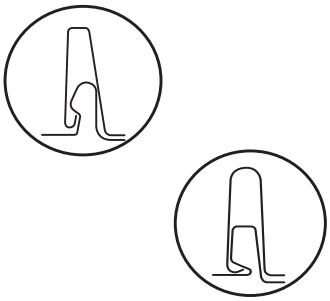
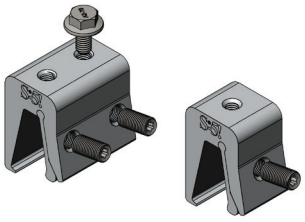
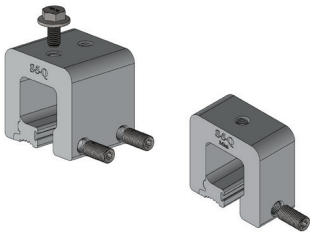
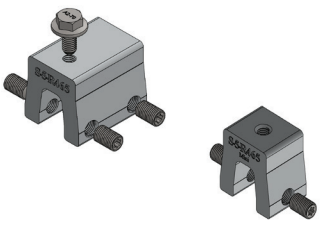
Product / Seam		Features & Benefits	Minor Box *MSRP US Dollars
S-5-N 1.5 & Mini  Mini		• Designed for use on popular 1.5” (38 mm) nail strip metal roof profiles • Angled wall with nose permits the clamp to engage the triangle-type profiles during the installation process • Wider throat accommodates most nail strip profiles; no need to crimp	**5.12** **Mini** **4.51**
S-5-NH 1.5 & Mini  Mini		• Fits nail strip profiles w/ base of rib dimension ≤ 0.800” • Hinge forms to shape of seam preventing damage at the point of attachment • Reversible hinge for wide & medium-width profiles	**5.96** **Mini** **5.37**
S-5-Q & Mini  Mini		• Accommodates metal roof panels with a wide variety of profiles, including large, round “bulb” seam configurations up to 1.14” (29 mm) in diameter • Also fits smaller bulb-shaped profiles when seamed incorrectly, allowing seam to be utilized without correction	**10.74** **Mini** **6.43**
S-5-R465 & Mini  Mini		• Designed specifically to fit the Zambelli RIB-ROOF 465, McElroy Metal Mirage II, Rib Roof Metal Systems Rib Roof and similar roof profiles • Unique design with opposing setscrews that engage the ribs beneath the top bulb, maximizing published holding strength	**8.34** **Mini** **6.28**

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S-5! Clamps

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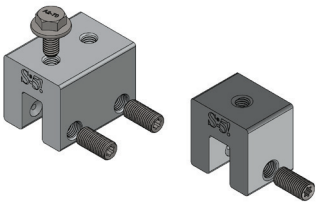
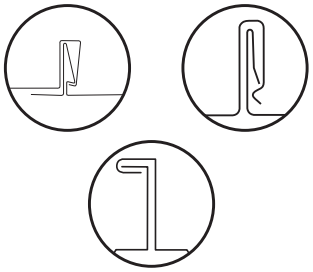
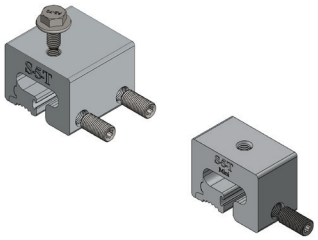
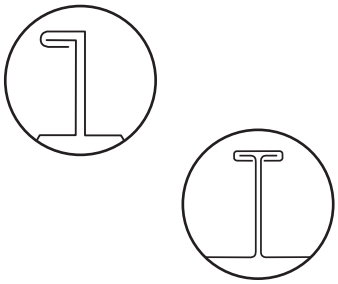
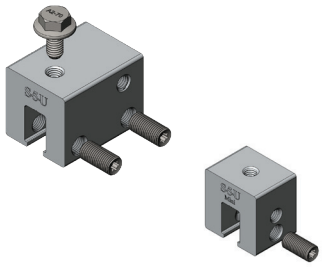
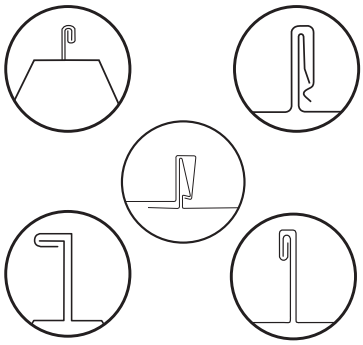
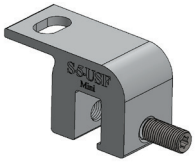
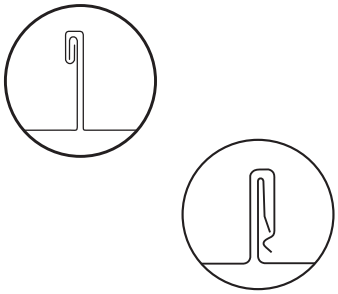
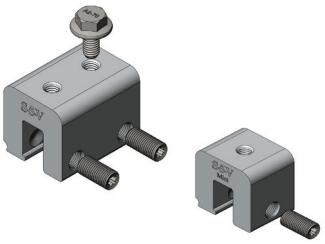
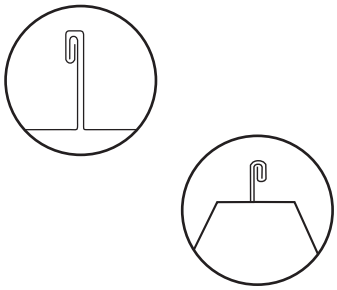
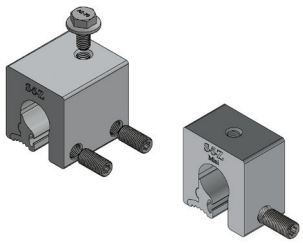
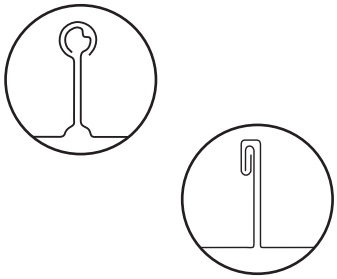
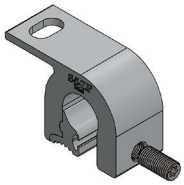
Product / Seam		Features & Benefits	Minor Box *MSRP US Dollars
S-5-S & Mini  Mini		• Versatile clamp created for popular snap-together profiles, including the Firestone UC4, Peterson SnapClad™, MBCI LokSeam™ and all similar seam types • Also used on single-folded (horizontal seams) under ≤ 0.54" (13 mm) to avoid necessity of field crimping the seam	**5.29** **Mini** **3.35**
S-5-T & Mini  Mini		• Developed for profiles having a T-shaped seam configuration with a horizontal dimension ≤ 1.3" (33 mm) • Two-piece design allows clamp to be placed over the top of the T-seam at any desired location • Fits architectural single-fold (or "angle-seam") and horizontal seam with horizontal dimension ≤ 5/8" (15 mm)	**6.84** **Mini** **5.81**
S-5-U & Mini  Mini		• Our most versatile clamp • Fits 85% of standing seam profiles manufactured in North and South America, including structural and architectural profiles • Use on vertically-oriented seams • Rotate clamp 90° and use on most horizontal seam profiles w/ horizontal dimensions ≥ 0.65" (16.5 mm)	**5.98** **Mini** **3.91**
S-5-USF 		• Unique flange design increases ease and versatility of attachment to bottom-mount rails and other nut and bolt connections • Fits 85% of U.S. (vertical) standing seam profiles, including most snap-together and machine-folded seams • Designed for snap-together & vertical-folded seams	**5.91**

*Pricing above is in USD. Prices vary based on region and other factors. Pricing improves with order quantity. Call your Authorized S-5! Distributor

S-5! Clamps

Attach bottom-bolted rail, side-bolted rail with L-Foot or S-5! (rail-less) PVKIT. Also, attach wire chases, raceways, combiner boxes, service walkways, lightning protection, etc.

Product / Seam		Features & Benefits	Minor Box *MSRP US Dollars
S-5-V & Mini  Mini		• Fits the same vertically-oriented seams as the S-5-U • Less versatile but more cost-effective than the S-5-U • Specifically designed for vertical machine-folded seams	**5.29** **Mini** **3.35**
S-5-Z & Mini  Mini		• Specially designed to fit Zip-Rib®, BEMO, Kalzip® and similar profiles with a round “bulb” seam configuration and seam diameters of ≤ ¾” (19 mm) • Two-piece clamp design allows for ease of installation anywhere along length of the rib	**7.10** **Mini** **6.03**
S-5-ZF 		• Flange clamp specifically designed to fit bulb-shaped profiles • Unique flange design increases ease and versatility of attachment to bottom-mount rails and other nut and bolt connections	**5.12**
S-5-ZH 		• Fits round “bulb” seam configuration ≤ 7/8” (22 mm) in diameter • Can be used at halter locations • Design prevents clamp from pinning roof to the clip (halter)	**5.14**

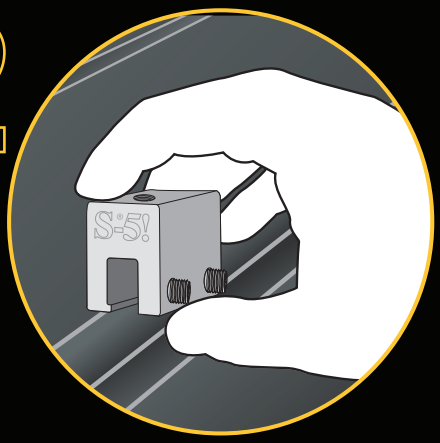
*Pricing above is in USD. Prices vary based on region and other factors. Pricing improves with order quantity. Call your Authorized S-5! Distributor

Installation is Easy

1

- **S-5!®** clamps attach to metal roof panel seams with round point setscrews that slightly dimple the seam material.
- This non-penetrating attachment will not void roof warranties.

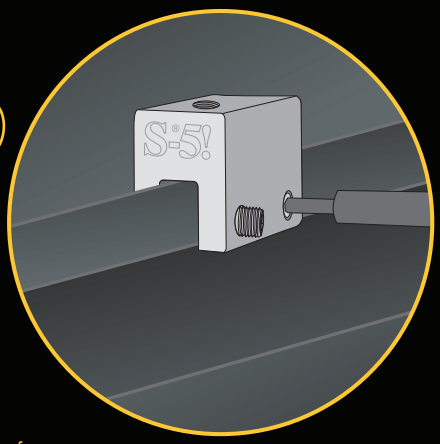
2



- **S-5!** clamps have maximum holding strength, maintain roof weather-tightness and preserve the manufacturer's warranty.

Don't be misled — one size does not fit all roofs!

3



Each clamp model has been independently, laboratory-tested on a variety of seam types, profiles and materials to determine the ultimate tensile-failure-loads parallel and perpendicular to the panel seam. Test results are available at www.S-5.com.

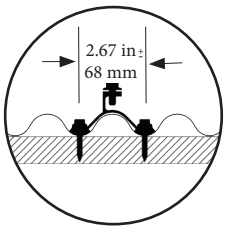
Visit www.S-5.com/metal-roof-resources for complete installation instructions, information and tools for properly attaching and tensioning S-5! clamps.

"The solar industry needs real solutions, no rhetoric. S-5! has visionary solutions."
Jigar Shah - *Founder - Sun Edison*

S-5! Brackets

Attach Rail, PVKIT® & Other Ancillaries

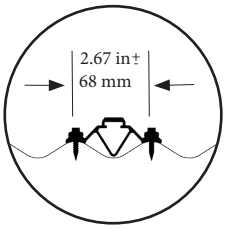
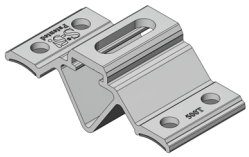
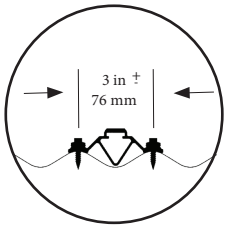
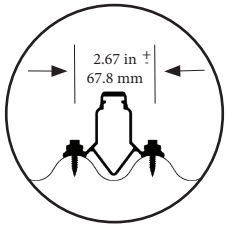
ADNOC-Abu Dhabi National Oil Company / UA

Product / Seam		Features & Benefits	Minor Box *MSRP US Dollars
CorruBracket (Imperial Dimensioning; Bottom-Fixed; Low Profile) 		• Compatible with 7/8” and 3/4” x 2.67” rib pitch U.S. corrugated profiles • Comes with factory-applied, non-curing, butyl sealant – the same sealant used in roof construction • Patented reservoir conceals sealant from UV exposure, preventing UV degradation and over-compression of sealant when fasteners are secured • Fastens into deck or structure using fasteners designed to outlast roof (sold separately)	**6.31**

*Pricing above is in USD. Prices vary based on region and other factors. Pricing improves with order quantity. Call your Authorized S-5! Distributor

S-5! Brackets

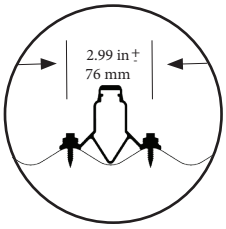
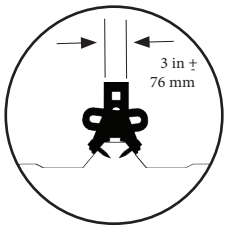
Attach Rail, PVKIT® & Other Ancillaries

Product / Seam		Features & Benefits	Minor Box *MSRP US Dollars
CorruBracket 100T (Imperial Dimensioning; Top-Fixed; Low Profile) 		• Compatible with 7/8” and 3/4” x 2.67” rib pitch U.S. corrugated profiles • Mounts directly to crest of corrugation, straddling valley • Fastens directly into sheeting OR through sheeting into structure • Slotted, top hole simplifies alignment, maximizing flexibility in attaching ancillaries	**4.74**
CorruBracket 500T (Metric Dimensioning; Top-Fixed; Low Profile) 		• Mounts directly to crest of corrugation, straddling valley of metric profiles common in Australia, Asia, Africa, Europe and South America • Compatible w/ 16-22 mm x 76 mm rib-pitch corrugated roofing • Fastens directly to sheeting OR through sheeting into structure • Slotted, top hole simplifies alignment, maximizing flexibility in attaching ancillaries	**4.39**
CorruBracket 100T PV (Imperial Dimensioning; Top-Fixed; High Profile) 		• Open channel for wire management • Bracket places glass 4” above valley of corrugation for optimal air-flow • Bracket can be fixed into sheeting-only, allowing flexible module placement • Slotted hole offers 1” of adjustability • PVKIT compatible; fasteners included • Allows for attachment of microinverters and/or optimizers	**5.03**

***Pricing above is in USD. Prices vary based on region and other factors. Pricing improves with order quantity. Call your Authorized S-5! Distributor**

S-5! Brackets

Attach Rail, PVKIT® & Other Ancillaries

Product / Seam		Features & Benefits	Minor Box *MSRP US Dollars
CorruBracket 500T PV (Metric Dimensioning; Top-Fixed; High Profile) 		• Open channel for wire containment/ management • Places glass 100+ mm above valley of corrugation for optimal air flow • Fix into sheeting-only, allowing flexible module placement • Mounting slot offers 25 mm of adjustability • PVKIT compatible; fasteners included • Factory-applied EPDM gasket: no-mess waterproofing • Compatible with corrugated profiles 16-22+ mm	**5.37**
ProteaBracket 		• L-Foot allows for side-mount rails, bottom-mount rails or PVKIT • Load-tested for engineered applications • Adjustable – fits trapezoidal rib profiles up to 3” (76 mm) wide • Peel-and-stick EPDM surface prevents accidental shifting during installation • Stainless-capped, self-piercing screws specifically designed to prevent swarf; EPDM sealing washer	**8.48**

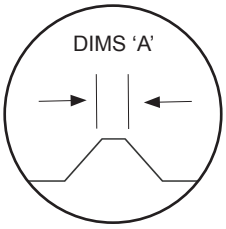
***Pricing above is in USD. Prices vary based on region and other factors. Pricing improves with order quantity. Call your Authorized S-5! Distributor**

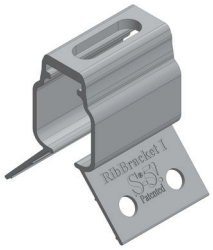
S-5! Brackets

Attach PVKIT® & Other Ancillaries

Product / Seam	Features & Benefits	Minor Box *MSRP US Dollars
RibBracket I-V®	• Flex-to-fit legs endure proper fit • Large channel above rib can be used for wire management • Sheeting-only attachment can be placed anywhere along roof ribs • Stainless-capped, self piercing screws specifically designed to maximize holding strength & prevent swarf • EPDM sealing washer • Bracket allows for 4” (100 mm) of air space above rib • 4 self-penetrating screws and 1 M8 Nut Included • **RibBracket I:** Designed for popular Hawaiian profiles, such as HPM Custom 4-Rib, HPMCustom 6-Rib, and similarly-dimensioned narrow ribs. • **RibBracket II:** Designed for popular African and Australian profiles, such as Lysaght Trimdek® 1015, Safintra Trimflute 1015, and similarly-dimensioned profiles. • **RibBracket III:** Designed for popular North American and Indian profiles, such as PBR Panel, R-Panel, Kirby Roof (KR), and similarly-dimensioned profiles. • **RibBracket IV:** Designed for popular African and North American profiles, such as Safintra IBR, KingSpan® KS1000, and similarly-dimensioned profiles. • **RibBracket V:** Designed for Ternium TR and similarly-dimensioned profiles. • ***Rib angles and dimensions vary on trapezoidal profile. It is suggested to test fit the RibBracket on actual roof profile or request our RibBracket Gauge Tool.***	**4.99**

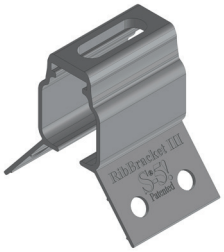
RibBracket I



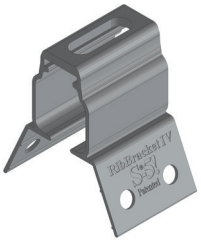


RibBracket II

RibBracket III



RibBracket IV



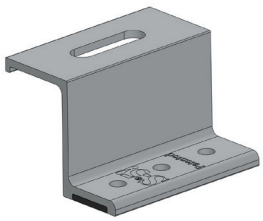
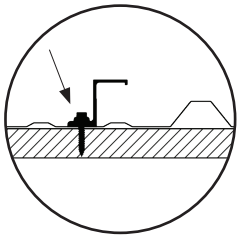
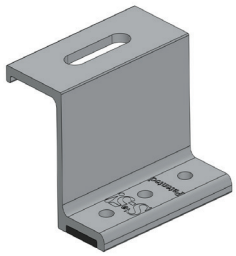
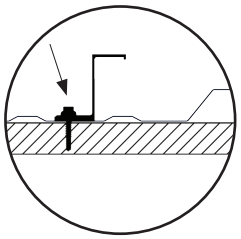
RibBracket V

RibBracket	DIMS ‘A’
RibBracket I	0.63 - 1 in | 16 - 25 mm
RibBracket II	1 - 1 1/4 in | 25 - 32 mm
RibBracket III	1 - 1 1/8 in | 25 - 35 mm
RibBracket IV	1 1/4 -1 3/8 in | 32 - 35 mm
RibBracket V	0.75 - 1 in | 19 - 25 mm

*Pricing above is in USD. Prices vary based on region and other factors. Pricing improves with order quantity. Call your Authorized S-5! Distributor

S-5! Brackets

Attach PVKIT® & Other Ancillaries

Product / Seam		Features & Benefits	Minor Box *MSRP US Dollars
VersaBracket 47 	Sits in the valley; attaches into the decking or structure 	• Compatible with almost any trapezoidal, bottom-fixed, exposed-fastened profile • Height: 1.86” (47 mm) • Mounting face comes with 1” (25 mm) slot on top for adjustability • Factory-applied, non-curing, butyl sealant • Patented reservoir conceals sealant from UV exposure, preventing UV degradation and over-compression of sealant • Fastens into the deck or structure using fasteners specifically designed to outlive the roof (fasteners sold separately) • NOT recommended for side-bolted rail with L-Foot (see VersaGard or SolarFoot)	**2.40**
VersaBracket 67 	Sits in the valley; attaches into the decking or structure 	• All the same features as the VersaBracket 47 with noted exceptions: • Increased height: 2.65” (67 mm) to clear higher ribs • Mounting face has no holes or slots, designed to be attached with a self-drilling fastener	**3.25**

***Pricing above is in USD. Prices vary based on region and other factors. Pricing improves with order quantity. Call your Authorized S-5! Distributor**

GRIPPERFIX®

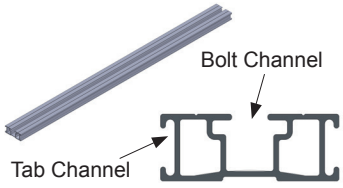
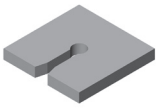
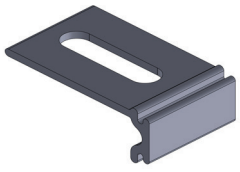
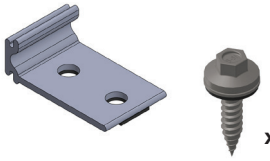
Attach Cable Trays, Conduits, Walkways & Other Ancillaries

The Wrong Way

The Right Way®

Standing Seam or Exposed-Fastened Roof Components

Universal strut for attachment of roof-mounted equipment

Components (To customize your solution, all components are sold separately.)		Features & Benefits	Minor Box *MSRP US Dollars
	**Gripper Strut** 300, 600, 1200 mm lengths 27” and 52” lengths	• No field applied sealants needed • Factory-applied “double-seal” gasket • 100% aluminum and stainless • Eliminates corrosion and rust • Ease of installation • No damage to roof system • Free flow of rainwater under rails • Load distribution over multiple bearing points • Custom lengths available on quantity orders. Call for specifics.	**9.68** **18.67**
	**Damper/Leveling Pad**		**0.85**
	M8 Bolt (listed price is average of all sizes/bolt: 1.25 x 16, 20, 40 mm) & **M8 Hex Flange Nut**		Bolt: **0.34** Nut: **0.28**
Standing Seam CF Tab Concealed Fix 	**Exposed-Fastened EF Tab** (Includes Screws) 		**CF Tab** **0.80** **EF Tab** **1.64**

*Pricing above is in USD. Prices vary based on region and other factors. Pricing improves with order quantity. Call your Authorized S-5! Distributor

Rack & Rail Systems

For PV module solutions beyond direct attachment, S-5! standard and mini clamps meet the stringent requirements for solar installations on metal roofs and are still the choice of popular rack and rail solar systems. From tilted to flat roofs or flush mount applications, the companies listed below rely on tested, trusted, engineered and proven S-5! clamps to secure their installations and safeguard their reputations:

- **Ecolibrium Solar**
- **Everest Solar Systems**
- **IronRidge**
- **K2 Solar**
- **KB Racking**
- **Mounting Systems GmbH**
- **Opsun Systems**
- **Polar Racking**
- **Roof Tech**
- **Solar Clam-P**
- **Solar SpeedRack**
- **Unirac**
- **Zilla**

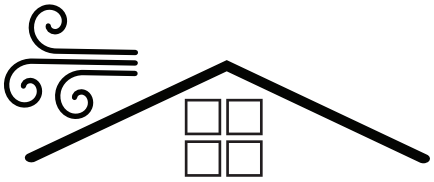
"We would never consider any attachment to our roofs other than S-5!'s. "The S-5! brand is iconic in the metal roofing industry. Their commitment to tested, engineered products and a decades-long history of prudent metal roof attachment solutions is unsurpassed. We simply know from experience their products perform for the life of our roof."

Ken Gieseke - *VP of Marketing - McElroy Metal*

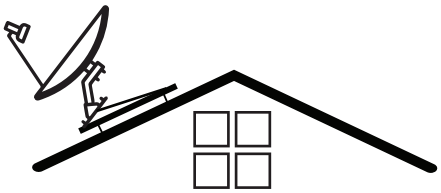
Countless Applications

With zero rooftop penetration or warranty violation

Attach snow retention and wind-performance systems, satellite dishes, solar arrays, signs/banners, light fixtures, gas piping, stack/flue bracing, walkways, HVAC, lighting protection, equipment screens, conduit, condensate lines and more **— all without violating the integrity of the roof or the roof manufacturer's warranty!**



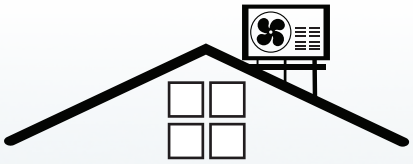
Wind Protection and Performance Systems



Satellite Dishes

Rooftop Signage

Pipes and Conduit



HVAC and Rooftop Equipment

And...Everything Else

Visit Us Online!

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Stay up-to-date with our newest product launches, blog content, latest project photos, trade show schedule and more!

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- S5solutions
- S-5! Metal Roof Attachments

Where to Buy

Where to Buy S-5!® Products!

Where can you buy S-5!? We sell our metal roof attachment solutions through a trusted network of independent distributors strategically located both domestically and internationally to serve your many project needs. Our dedicated distributors might specialize in one of our solutions or offer a wide assortment of our products. Visit us at www.s-5.com to find your nearest distributor.

Are you interested in becoming a distributor? Learn more by emailing distributorships@s-5.com.

"S-5! is the greatest thing to happen to metal roofing since Galvalume."
Angelo Borzillo - *Co-Inventor of Galvalume® Coating Technology*

S-5!® Warning!

Please use this product responsibly!

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