

Tested. Trusted. Engineered.

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



From Simple Beginnings to Metal Roofs Worldwide...

With more than 50 patents and a 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. S-5! is the most trusted name in the metal construction, solar, and snow 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
- 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.

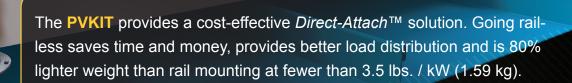
We can prove everything we say—just ask.

*Visit our website for warranty details.



S-5! PVKIT® Solar Solution

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



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
	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 	US Dollars
	MidGrab	 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 	7.32 8.64 (blk)



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
	Sits in the valley; attaches to the deck or structure Rail Mounting Only	 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 	4.31



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
	Sits in the valley; attaches to the decking or structure	 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 	3.90



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.



Produc	t / 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 	19.23 Mini 13.89
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 	4.79 Mini 3.40
S-5-EF™		 Unique flange design increases ease and versatility of attachment to bottom-mount PV rails and other nut and bolt connections Specifically designed for doublefold, standing seams popular in Europe and the world over, including Butler MR-24® 	4.30





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.

	t / Seam	Features & Benefits Minor Box *MSRP US Dollars
S-5-H [™] & Mini Mini		 Designed to accommodate roof panels with horizontal seams not fully closed with side securement 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
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
S-5-K Grip™ & Mini Mini	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 bulbous type snap-together profiles Design utilizes multiple inserts (sold separately) to accommodate various rib dimensions Mounting bolt directly over center of seam
S-5-N™ & Mini Mini		 Special design for "nail-flange" SSR profiles ≤ 1" (25 mm) in height Angled setscrews for easier installation 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

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



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.



Produc	Product / Seam		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 	5.75 Mini 5.06
S-5-NH [™] 1.5 & Mini Mini		 Nail strip profiles horizontal base rib dimension ≤ 0.800" Hinge forms to shape of seam preventing damage at the point of attachment Reversible hinge for wide & medium-width profiles 	6.70 Mini 6.01
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 	12.05 Mini 7.21
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 	9.38 Mini 7.05

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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 *M	or Box ISRP Dollars
S-5-S [™] & Mini Mini		SnapClad™, MBCI LokSeam™ and all similar seam types	5.93 Mini 3.75
S-5-T [™] & Mini S-5-U [™] & Mini		 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 single-fold seam with horizontal dimension ≤ 5/8" (15 mm) 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 	7.70 Mini 5.52 5.68 Mini 1.37
Mini S-5-USF™		horizontal dimensions ≥ 0.65" (16.5 mm)	
		 Unique flange design increases ease and versatility of attachment to bottom-mount PV 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 	5.63



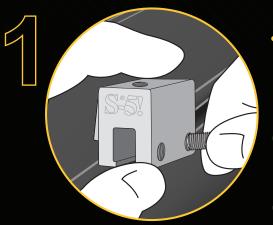
Attach bottom-bolted rail, side-bolted rail with L-Foot or S-5! (rail-less) PVKIT. Also, attach wire chases, raceways, combiner boxes, service walkways, lightning protection, etc.



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 costeffective than the S-5-U Specifically designed for vertical machine-folded seams 	5.93 Mini 3.75
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 	7.96 Mini 6.76
S-5-ZF™		 Flange clamp specifically designed to fit bulb-shaped profiles Unique flange design increases ease and versatility of attachment to bottom-mount PV rails and other nut and bolt connections 	5.52
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) 	5.75



Installation is Easy

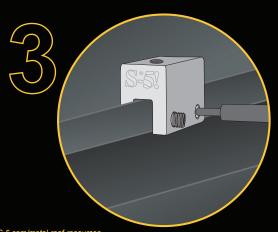


- **S-5!**[®] clamps attach to metal roof panel seams with round point setscrews that slightly dimple the seam material.
- This non-penetrating attachment will not void roof warranties.



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!



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.

"The solar industry needs real solutions, no rhetoric. S-5! has visionary solutions."

Jigar Shah - Founder - Sun Edison

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



Attach Rail, PVKIT® & Other Ancillaries



	ADNOC-Abu Dhabi Natio	onal Oil Company / UA
Pueduat / Com	Factories 9 Paradita	Minor Box

Product	/ Seam	Features & Benefits	Minor Box *MSRP US Dollars
CorruBracket™ (Imperial Dimensioning; Bottom-Fixed; Low Profile)	2.67 in: 68 mm	 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 for over 40 years 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) 	7.07





Attach Rail, PVKIT® & Other Ancillaries

Product ,	/ Seam	Features & Benefits	Minor Box *MSRP US Dollars
CorruBracket™ 100T (Imperial Dimensioning; Top-Fixed; Low Profile)	2.67 in ± 68 mm	 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 	5.32
CorruBracket [™] 500T (Metric Dimensioning; Top- Fixed; Low Profile)	3 in [†] 76 mm	 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 	4.92
CorruBracket™ 100T PV (Imperial Dimensioning; Top-Fixed; High Profile)	2.67 in [†]	 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 	5.65



Attach Rail, PVKIT® & Other Ancillaries



Product / Seam		Features & Benefits	Minor Box *MSRP US Dollars
CorruBracket™ 500T PV (Metric Dimensioning; Top-Fixed; High Profile)	3 in ± 76 mm	 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 	6.01
ProteaBracket	3 in ± 76 mm	 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 	9.20





Product / Seam		Features & Benefits	Minor Box *MSRP US Dollars
RibBracket [™] I-V			
	RibBracket [™] I	Flex-to-fit legs endure proper fit	
DIMS 'A'		 Large channel above rib can be used for wire management 	
	Tabliffing 1	 Sheeting-only attachment can be placed anywhere along roof ribs 	
		 Stainless-capped, self piercing screws specifically designed to maximize holding strength & prevent swarf 	
 RibBracket™ II	RibBracket [™] III	EPDM sealing washer	
RIDBIACKET II	RIDDIACKEL III	Bracket allows for 4" (100 mm) of air space above rib	
Marine II		 4 self-penetrating screws and 1 M8 Nut Included 	
	autrium in	RibBracket I: Designed for popular Hawaiian profiles, such as HPM Custom 4-Rib, HPMCustom 6-Rib, and similarly- dimensioned narrow ribs.	5.59
RibBracket [™] IV	RibBracket [™] V	RibBracket II: Designed for popular African and Australian profiles, such as Lysaght Trimdek® 1015, Safintra Trimflute 1015, and similarly-dimensioned profiles.	
and a state of the		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	
<u>RibBracket</u>	DIMS 'A'	similarly-dimensioned profiles.	
RibBracket I	0.63 - 1 in 16 - 25 mm	RibBracket V: Designed for Ternium TR	
RibBracket II	1 - 1 1/4 in 25 - 32 mm	and similarly-dimensioned profiles.	
RibBracket III	1 - 1 3/8 in 25 - 35 mm	Rib angles and dimensions vary on trapezoidal profile. It is suggested to text fit the BibBreaket on actual roof	
RibBracket IV	1 1/4 -1 3/8 in 32 - 35 mm	test fit the RibBracket on actual roof profile.	
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.



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) 	2.67
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 	3.65

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



15 | Brackets



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
Bolt Channel Tab Channel	GripperStrut ™ 300, 600, 1200 mm lengths 27" and 52" lengths	•	 No field applied sealants needed Factory-applied "double-seal" gasket 100% aluminum and stainless 	10.88 20.96
	Damper/Leveling Pad 1/4" (6 mm)			0.94
	 & M8 Hex Flange Nut Load distribution over multiple bearing points Concealed Fix Load distribution over multiple bearing points Custom lengths available on 	Ease of installation No damage to roof system Free flow of rainwater under rails Load distribution over multiple	Bolt: 0.39 Nut: 0.31	
Standing Seam CF Tab Concealed Fix		• •	CF Tab 0.97	
				EF Tab 1.84



CanDuit™ Pipe Clamps





CanDuit securement clamps eliminate corrosive wood and rubber blocking. Contain piping and conduit in an easy, organized manner with no scratching, corrosion or other damage to your roof. CanDuit is compatible with S-5!'s non-penetrating clamps for standing seam roofs, S-5!'s waterproofed brackets for exposed-fastened roofs, and the GRipperFix® utility system.

Nom	ninal Trade Size	Adjustability Range*	Minor Box *MSRP US Dollars
#1	1/2" (13 mm)	.7994 (20 mm-24 mm)	2.32
#2	3/4" (19 mm)	.98 - 1.18 (25 mm-30 mm)	2.32
#3	1" (25 mm)	1.26 - 1.46 (32 mm-37 mm)	2.32
#4	1 1/4" (32 mm)	1.54 - 1.81 (40 mm-46 mm)	2.80
#5	1 1/2" (38 mm)	1.89- 2.10 (48 mm-53 mm)	2.80
#6	53-59	2.10- 2.32 (54 mm-59 mm)	2.80
#7	2" (50 mm)	2.3 -2.6 (58 mm-66 mm)	2.80

Nomi	inal Trade Range	Adjustability Range*	Minor Box *MSRP US Dollars
#8	67-77	2.64 - 3.00 (67 mm-76 mm)	4.20
#9	2 1/2" (64 mm)	2.9 - 3.15 (74 mm-80 mm)	4.20
#10	83-93	3.27 - 3.67 (83 mm-93 mm)	4.20
#11	3" (76 mm)	3.4 - 3.7 (86 mm-94 mm)	4.20
#12	94-104	3.7 - 4.10 (94 mm-104 mm)	4.20
#13	102-111	4.00- 4.37 (102 mm-111 mm)	4.63
#14	4" (102 mm)	4.25 - 4.6 (108 mm-117 mm)	4.63

*Match outer diameter of the pipe-conduit to the adjustability range











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



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



Learn More About S-5!® Products!

To learn more about our products and to view installation instructions, visit www.S-5.com. You'll also find helpful videos, customer testimonials, distributor information and more.

Connect With Us!

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

- f S5attachmentsolutions
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- S5_Attachments
- S-5! Metal Roof Innovations
- S5metalroofing
- S-5! Metal Roof Attachments
- **3** S5Attachments

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!

S-5! products are protected by multiple U.S. and foreign patents.

For more information

on S-5!'s patents and

trademarks, in addition to published

data regarding holding strength, visit www.s-5.com

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