

# **ACE** *Innovative, Cost-Saving* **CLAMP**<sup>®</sup> **SNOW RETENTION** **& SOLAR SOLUTIONS**

**SSMR • MEMBRANE • SHINGLE • SLATE**



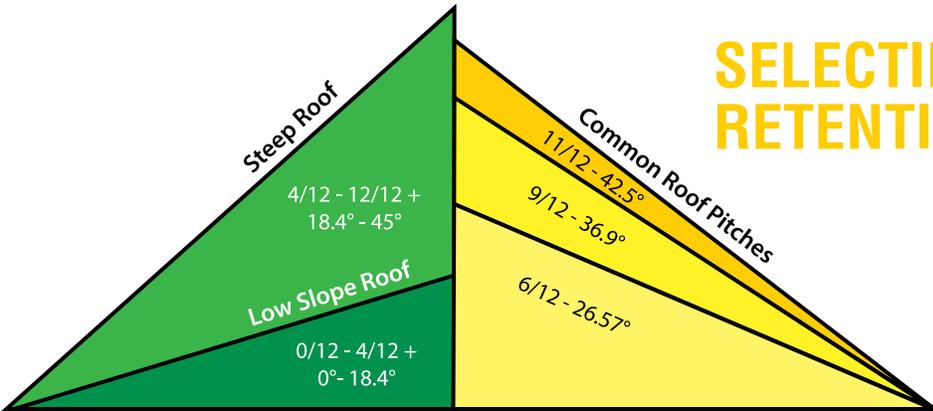
 **FLIP FOR SOLAR MOUNTING**



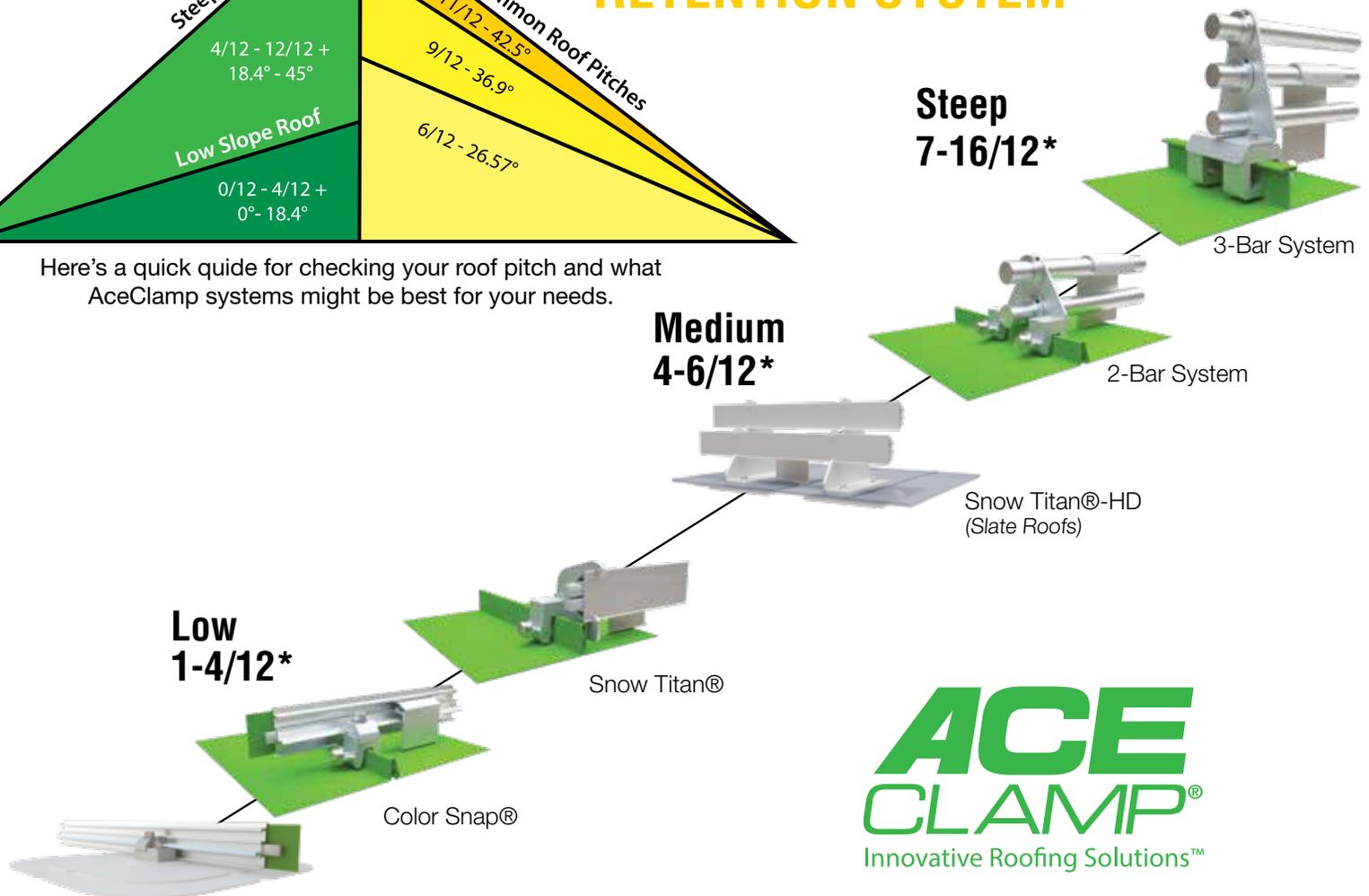
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## SELECTING THE PROPER SNOW RETENTION SYSTEM



Here's a quick guide for checking your roof pitch and what AceClamp systems might be best for your needs.



**ACE  
CLAMP®**  
Innovative Roofing Solutions™

# A LONG HISTORY OF INNOVATION



AceClamp® is a market-leading manufacturer of rooftop snow retention and solar mounting systems. Our lab-tested mounting systems help save contractors time and money by offering fully assembled clamps and component groups, simplifying the installation process, and reducing overall labor costs.

## HERE TO HELP YOU GROW & SUCCEED

At AceClamp® we're proud to be working with AEC Daily to deliver continuing educational credits to further educate professional installers and architects. We also offer on-site training services where we can visit local job sites and train installers on best practices for using our fast-installing AceClamp snow retention and solar mounting systems.



**Distributor opportunities available!**



# THE MAGIC BEHIND

## ACECLAMP®

AceClamp's patented non-penetrating design uses a single fastener to secure its two sliding pins, assuring equal and exact torque every time.



**FULLY ASSEMBLED**  
CLAMPS READY TO INSTALL



**ACECLAMP®**

**COMPETITORS**

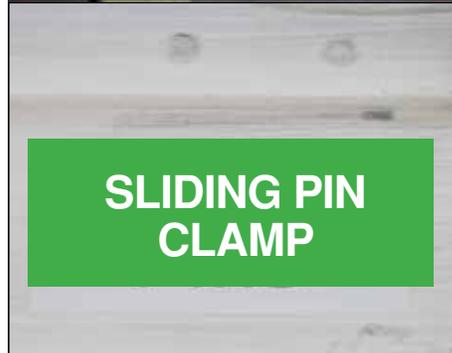
## Protecting your roof from installation damage

### AVOID PUNCTURES

Punctures can allow water to get beneath the coating and result in rust staining, corrosion or blistering.

Due to abrasive rotational forces and heat, blunt nose set screws apply brute force that often damage a panel's finish during install.

AceClamp does not use set screws. Our patented sliding pin design applies even, reliable pressure without rotational or abrasive forces, helping to better control installation damage.



**SLIDING PIN CLAMP**



**BLUNT NOSE SET SCREW**

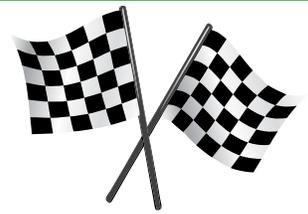
**Shown above:** Typical installation effects on panel as seen in an acrylic base and top coat applied roof system.



### **Installers: Do your Homework. "The Last Guy on the Roof Owns It!"**

Before installing any attachment clamps on a coated standing seam roof, check with the coating manufacturer. Then you can be sure that your fastening system does not void the warranty for a new coating or liquid-applied roofing system.

# REACH THE FINISH LINE *FASTER* WITH THE FULLY ASSEMBLED **ACECLAMP®**



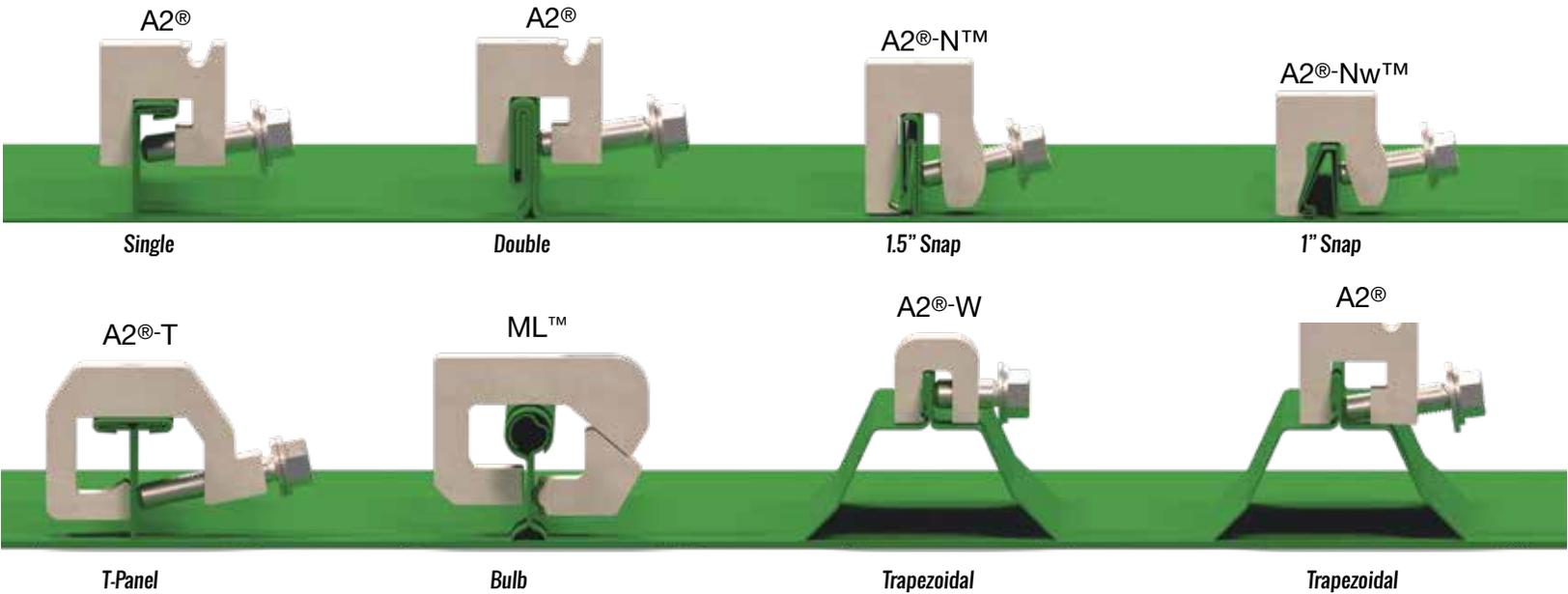
“JUST LOOK AT HOW THAT COMES OUT OF THE BOX!”

TIME IS MONEY



\*No assembly required

## FULLY ASSEMBLED, NON-PENETRATING CLAMPS FOR EVERY SEAM



## READY FOR A VARIETY OF ROOFTOP MOUNTING PROJECTS LIKE:



GROUNDING



SATELLITE DISH



STADIUM LIGHTS



SIGNAGE

\*See [aceclamp.com](http://aceclamp.com) for additional information. DO NOT USE AS A PERSONAL FALL SAFETY DEVICE.

# HOW TO MEASURE YOUR ROOF

This quick start guide will help us get you the best solution for your snow retention or solar project.

**Roof Pitch:** Calculated by finding the Rise and Run of your roof. (See below)

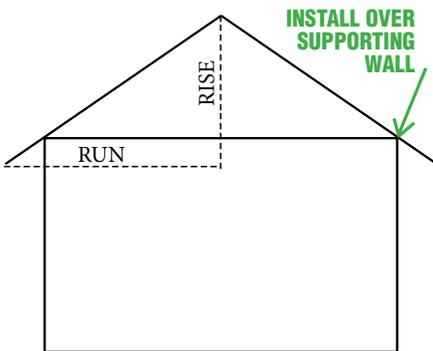
**Eave to Peak:** The distance from the gutter (eave) to the top of the roof (peak)

**Seam:** Measure the distance from seam to seam

**Linear Footage:** Determined by all the measurements along the gutter, or eave, where snow guards are needed. We also need to know how many sides, or sections, you want quoted.

**TIP!!** A photo that is very close up to the roof edge is BEST to determine the style of roof seam that you have. (single-lock, double-lock, snap-lock)

## HOW DO I CALCULATE MY ROOF PITCH?



For example, let's say you have a:

Rise of 2 feet and a Run of 4 feet.

$$2 \text{ divided by } 4 = 0.5 \text{ (pitch)}$$

$$0.5 \times 12 \text{ (inches in a foot)} = 6$$

**Pitch = 6/12**

## HAVE QUESTIONS?



AceClamp® Engineers are on staff and available to help spec your snow retention or solar mounting system.

**ACE CLAMP**  
Innovative Roofing Solutions™



Easy terms • No contracts • No minimums



\*Based on typical contractor experiences. Photos shown are for representative purposes only. Actual product may vary. Design subject to change without notice. Additional panel profiles & torque specs: [aceclamp.com](http://aceclamp.com). Always use proper safety equipment when working on a roof. Do NOT use as a personal fall safety device.



# Torque Specs

for the AceClamp family of products



### Color Snap® Installation

9/16" Hex Bolts w/Top Block  
(190 in-lbs max)



### Color Snap®-M Installation

9/16" Hex Bolts w/Top Block  
(190 in-lbs max)



### Solar Snap™ Installation

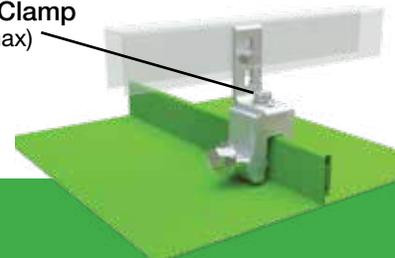
Kit Mounting Post - 3/16" Hex Drive  
(100 in-lbs max)  
9/16" Hex Nut securing PV Panel  
(100 in-lbs max)

Please refer to the below chart for the appropriate torque specs. **Do NOT tighten with impact gun.** For other styles or materials not shown here, feel free to contact the Engineers at AceClamp for further assistance.

PANEL STYLE	PANEL MATERIAL	PANEL THICKNESS	ACECLAMP	TORQUE (in-lbs)
snap-lock	steel	24 ga	A2® or A2®N™	195
snap-lock	aluminum	0.040	A2® or A2®N™	165
snap-lock	zinc	0.8mm	A2®	165
single-lock	steel	22 ga or 24 ga	A2®	195
single-lock	aluminum	0.032/0.040	A2®	165
double-lock	steel	22 ga or 24 ga	A2®	195
quad-lock	steel	22 ga or 24 ga	ML™	175
t-panel	steel	22 ga or 24 ga	ML™	175
zip-rib	steel	22 ga or 24 ga	ML™	175
zip-rib	aluminum	0.050	ML™	150
zip-rib	aluminum	0.032/0.040	ML™	135
snap-lock 1.5"	steel	24 ga	A2®N™	195
nail-base 1.0"	steel	24 ga	A2®Nw™	165**

FOR DETAILED TORQUE SPECS:  
[www.AceClamp.com](http://www.AceClamp.com)

L-Foot Bolt to Clamp  
(125 in-lbs max)



\*Photos shown are for representative purposes only. Actual product may vary. Design subject to change without notice. Always use OSHA approved safety equipment and procedures when working on a roof. \*\*A2-Nw Torque-Contact AceClamp engineering for recommended torque values for your specific roof panel.

**ACE CLAMP**  
Innovative Roofing Solutions™



Free Samples and Ordering:

860-351-0686 / [www.AceClamp.com](http://www.AceClamp.com)

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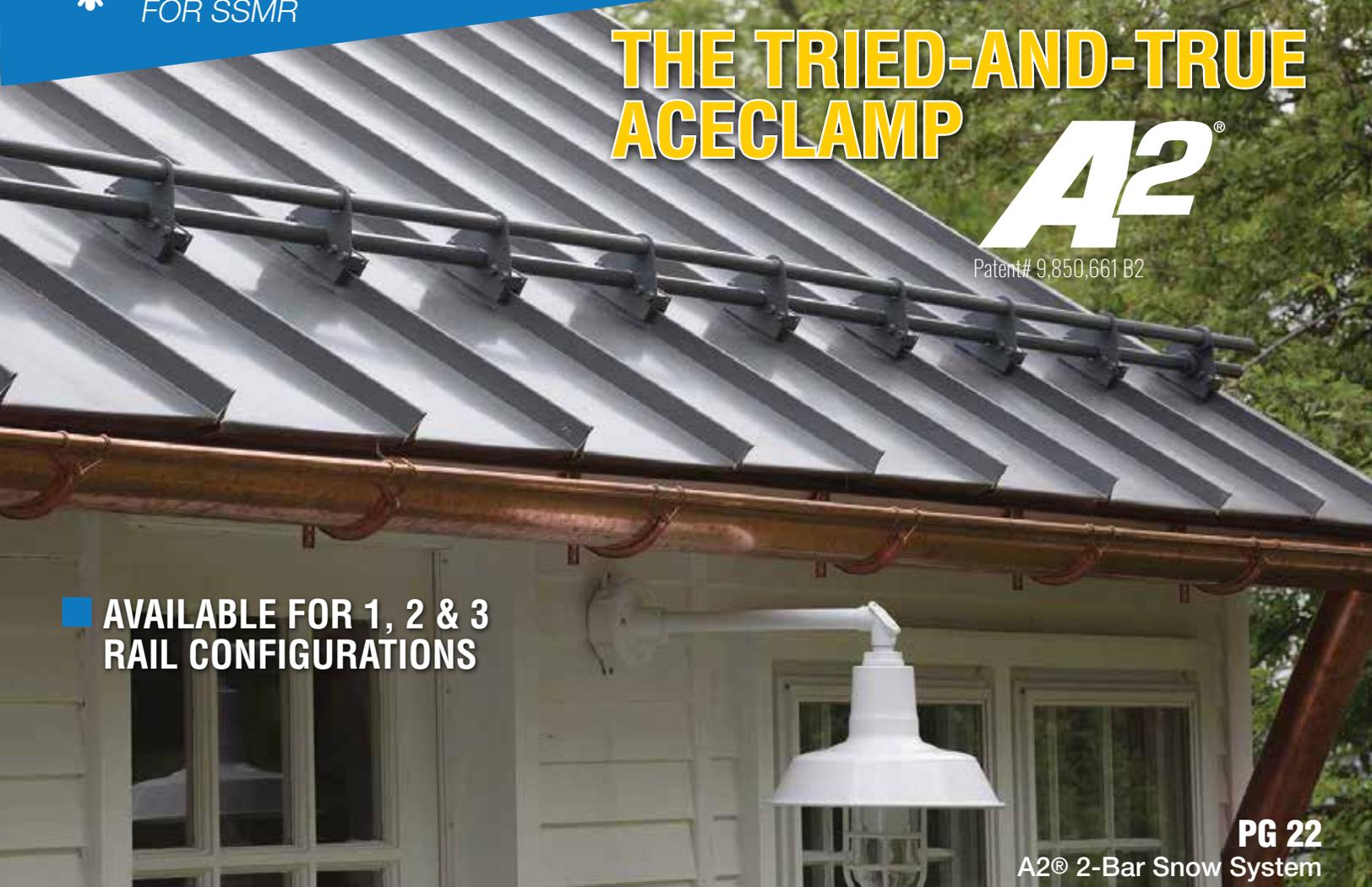
# CLAMPS SNOW RETENTION

FOR SSMR

# THE TRIED-AND-TRUE ACECLAMP

# A2<sup>®</sup>

Patent# 9,850,661 B2



**AVAILABLE FOR 1, 2 & 3  
RAIL CONFIGURATIONS**

**PG 22**  
A2<sup>®</sup> 2-Bar Snow System



**PG 29**  
A2<sup>®</sup> Color Snap<sup>®</sup> Snow Rail System

**ALSO AVAILABLE IN SEVERAL SOLAR CONFIGURATIONS**



**PG 51**  
A2<sup>®</sup> Solar Snap<sup>™</sup> Racking System

# ACE CLAMP<sup>®</sup>

Innovative Roofing Solutions<sup>™</sup>



Easy terms • No contracts • No minimums



\*Based on typical contractor experiences. Photos shown are for representative purposes only. Actual product may vary. Design subject to change without notice. Additional panel profiles & torque specs: aceclamp.com. Always use proper safety equipment when working on a roof. Do NOT use as a personal fall safety device.



## A2® SSMR Clamp

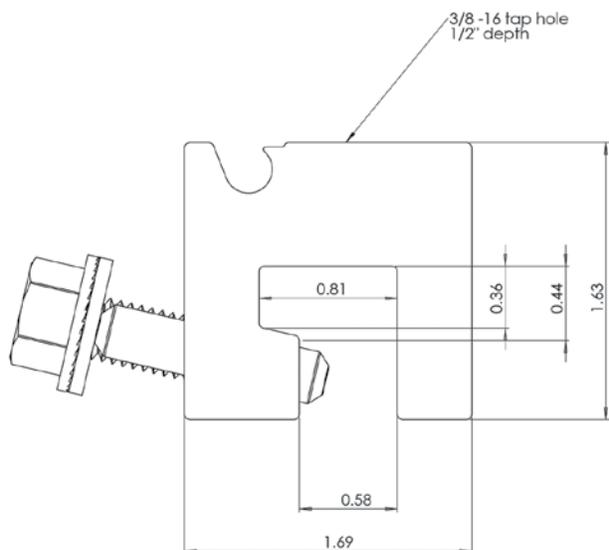
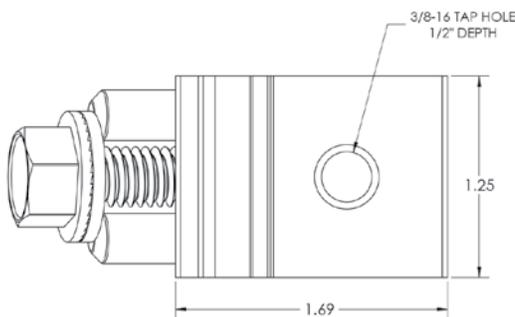
- Pre-assembled clamp allows for a quick and easy installation
- Non-penetrating sliding pin design does not damage the panel
- High wind-load resistance
- Available for one, two or three-hole brackets (2-6 inches in height)
- Engineered for snow retention systems on single, double or snap-lock SSMR
- Aircraft quality aluminum
- All stainless-steel hardware
- *Installs in half the time of competitive products\**



Shown: Part# 5056-A



## Specifications



### RECOMMENDED TORQUE SPECS

	22ga steel	Aluminum	Copper
<b>A2®</b>	195	165	n/a

The above is a general recommendation which varies by material type and panel thickness. For additional panel profiles and torque specs visit [www.AceClamp.com](http://www.AceClamp.com)



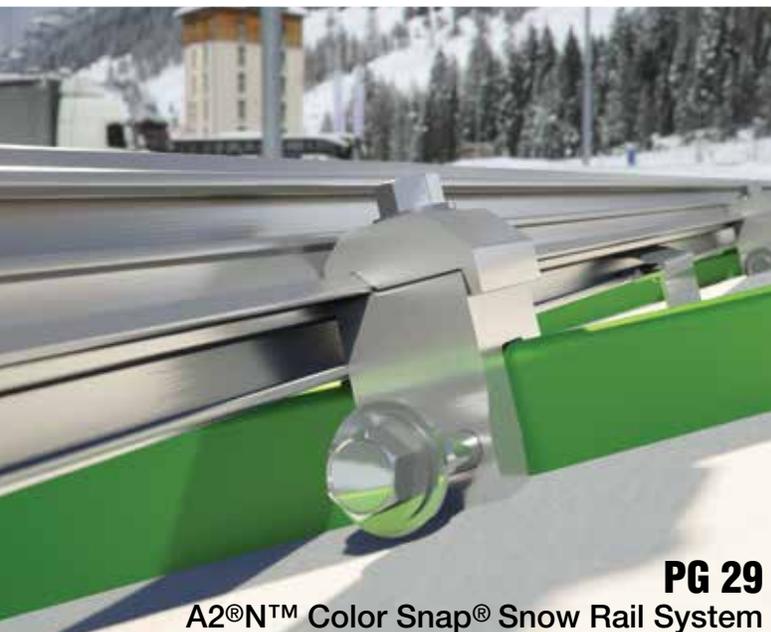
 **CLAMPS** SNOW RETENTION  
FOR SSMR

**A2<sup>®</sup>-N<sup>™</sup>** **TOTALLY  
NAILED IT**

■ DESIGNED FOR 1" TO 1.5"  
NAIL-BASE AND SNAP LOCK  
PANELS

■ AVAILABLE FOR 1,2,& 3  
RAIL CONFIGURATIONS

**PG 23**  
A2<sup>®</sup>N<sup>™</sup> 3-Bar Snow System



**PG 29**  
A2<sup>®</sup>N<sup>™</sup> Color Snap<sup>®</sup> Snow Rail System

ALSO AVAILABLE IN SEVERAL SOLAR CONFIGURATIONS



**PG 51**  
A2<sup>®</sup>N<sup>™</sup> Solar Snap<sup>™</sup> Racking System

**ACE**  
**CLAMP<sup>®</sup>**  
Innovative Roofing Solutions<sup>™</sup>



Easy terms • No contracts • No minimums



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## A2<sup>®</sup>N<sup>™</sup> SSMR Clamp

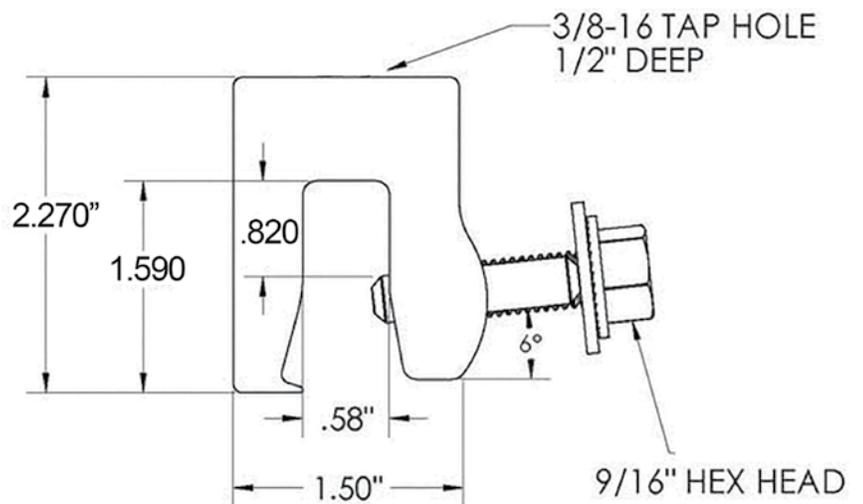
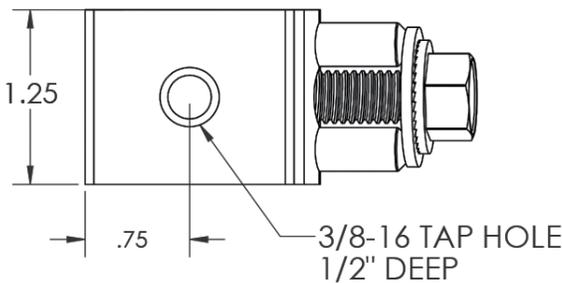
- Pre-assembled clamp allows for easy installation
- Non-penetrating sliding pin design does not damage the panel
- Available for one, two or three-hole brackets
- Engineered for 1.5" snap-lock SSMR seams
- Aircraft quality aluminum
- All stainless-steel hardware
- *Installs in half the time of competitive products\**



Shown: Part# 5056-N



## ■ Specifications



### RECOMMENDED TORQUE SPECS

22ga steel    Aluminum    Copper

**A2<sup>®</sup>-N<sup>™</sup>**    195    165    n/a

The above is a general recommendation which varies by material type and panel thickness. For additional panel profiles and torque specs visit [www.AceClamp.com](http://www.AceClamp.com)



 **CLAMPS** SNOW RETENTION  
FOR SSMR

**DOESN'T  
MIND  
KEEPING A  
LOW PROFILE**



**ENGINEERED TO FIT  
MOST 3/4-1" SEAMS**

**A2-Nw™**  
**PG 24**  
A2®-Nw™ 3-Bar System

**ALSO AVAILABLE IN SEVERAL SOLAR CONFIGURATIONS**



**PG 53**  
A2®Nw™ Solar PV Kit Rackless System

**ACE  
CLAMP®**  
Innovative Roofing Solutions™

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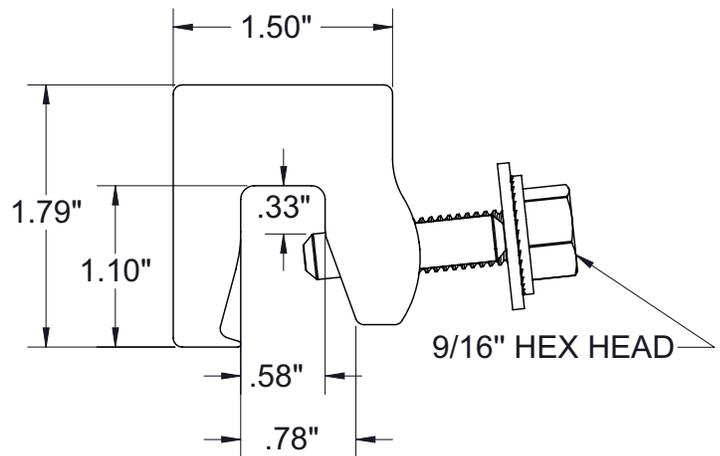
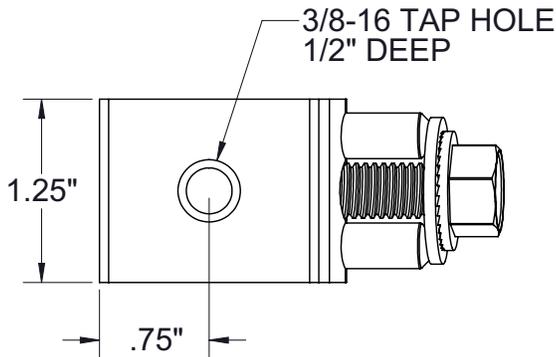
## A2® Nw™ SSMR Clamp

- Pre-assembled clamp allows for easy installation
- Non-penetrating sliding pin design does not damage the panel
- High wind-load resistance
- Also compatible with our patented Solar-Kit or L-Foot for attaching directly to any racking system
- Aircraft quality aluminum
- All stainless-steel hardware
- *Installs in half the time of competitive products\**



Shown: Part# 5119-1

### Specifications



#### RECOMMENDED TORQUE SPECS

	24ga steel	Aluminum	Copper
A2®-Nw™	175	165	n/a

The above is a general recommendation which varies by material type and panel thickness. For additional panel profiles and torque specs visit [www.AceClamp.com](http://www.AceClamp.com)

Not recommended for 29 gauge roof or up.



 **CLAMPS** SNOW RETENTION  
FOR SSMR

**THE SOPHISTICATED  
TOUGH GUY**

■ AVAILABLE FOR 1, 2 & 3  
BAR CONFIGURATIONS

**ML**<sup>TM</sup>

**PG 25**  
ML<sup>TM</sup> 3-Bar Snow System

ALSO AVAILABLE IN SEVERAL SOLAR CONFIGURATIONS

**PG 51**  
ML<sup>TM</sup> Solar Snap<sup>TM</sup> Racking System

**ACE**  
**CLAMP**<sup>®</sup>  
Innovative Roofing Solutions<sup>™</sup>

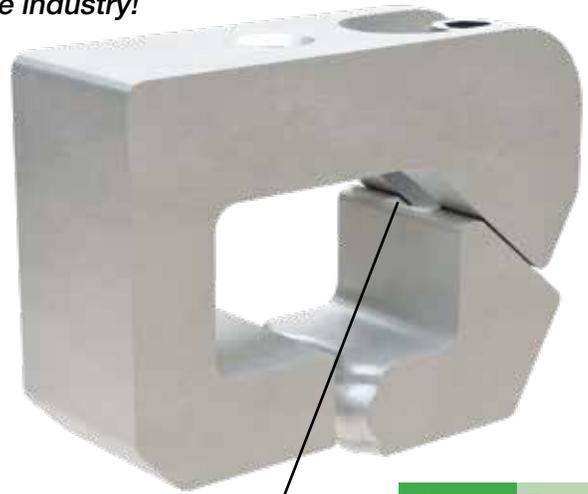
 Easy terms • No contracts • No minimums 

\*Based on typical contractor experiences. Photos shown are for representative purposes only. Actual product may vary. Design subject to change without notice. Additional panel profiles & torque specs: [aceclamp.com](http://aceclamp.com). Always use proper safety equipment when working on a roof. Do NOT use as a personal fall safety device.



## ML™ Clamp

- This product also has *the ONLY top-securing fastener in the industry!*
- Pre-assembled clamp allows for easy installation
- Aircraft quality aluminum
- All stainless-steel hardware
- *Installs in half the time of competitive products\**

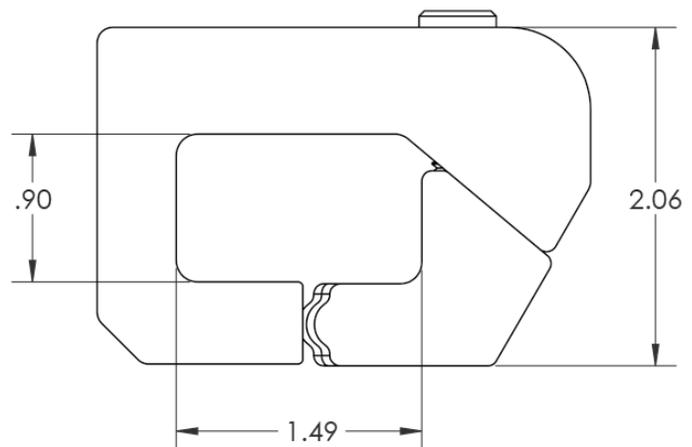
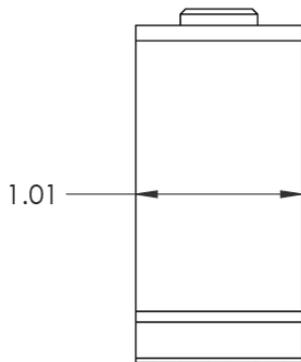
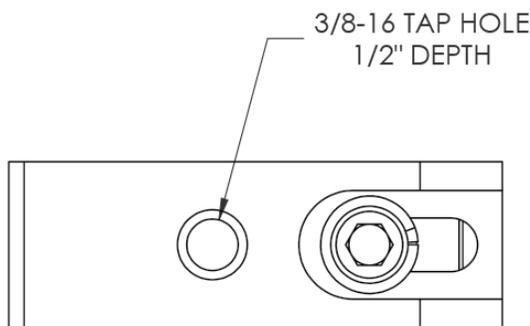


Shown: Part# 5031

Patented sliding mechanism



### Specifications



### RECOMMENDED TORQUE SPECS

	24ga steel	Aluminum	Copper
ML™	175	135	n/a

The above is a general recommendation which varies by material type and panel thickness. For additional panel profiles and torque specs visit [www.AceClamp.com](http://www.AceClamp.com)



# BIGGER, BADDER AND READY FOR MORE

OUR REVOLUTIONARY A2® JUST GREW

■ AVAILABLE FOR 1, 2 & 3  
BAR CONFIGURATIONS

**PG 26**  
A2®-T 3-Bar Snow Retention

**PG 51**  
A2®-T Solar Snap™ Racking System

## A2@T Clamp



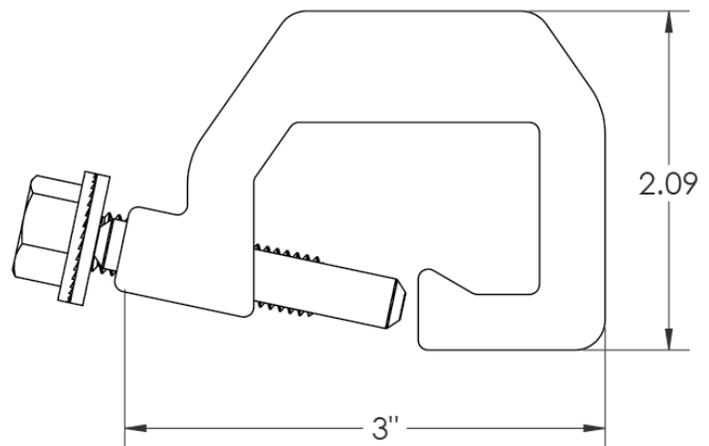
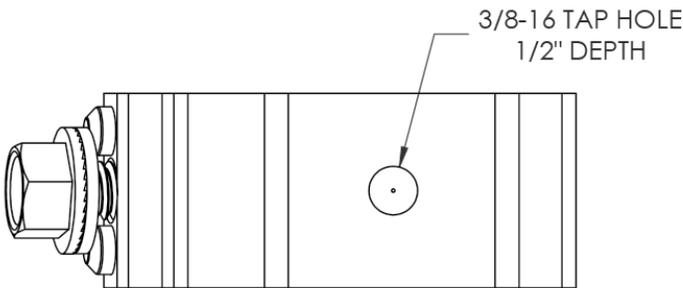
- Modeled after the ML™ and offers side versus top securing, making it **more versatile for solar applications**
- Pre-assembled clamp allows for a quick and easy installation
- Non-penetrating sliding pin design does not damage the panel
- High wind-load resistance
- Available for two or three-hole brackets (2-6 inches in height)
- Engineered for bulb-style and T-panel seams
- Aircraft quality aluminum
- All stainless-steel hardware
- Installs in half the time of competitive products\***



Shown: Part# 5056-T



## Specifications



### RECOMMENDED TORQUE SPECS

	24ga steel	Aluminum	Copper
<b>A2@T</b>	175	135	n/a

The above is a general recommendation which varies by material type and panel thickness. For additional panel profiles and torque specs visit [www.AceClamp.com](http://www.AceClamp.com)



# THE LITTLE CLAMP WITH SUPER POWERS

## A2-wind<sup>®</sup>



■ YOUR STABILITY CLAMP FOR WIND UPLIFT

**ACE**  
**CLAMP**<sup>®</sup>  
Innovative Roofing Solutions™



Easy terms • No contracts • No minimums



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1" or less



### A2®-W (Wind Clamp)

- Pre-assembled clamp allows for a quick and easy installation
- Non-penetrating sliding pin design does not damage the panel
- High wind-load resistance
- Enhanced perimeter uplift resistance, without roof panel or purlin modifications
- 3rd party tested for load resistance
- *Installs in half the time of competitive products\**



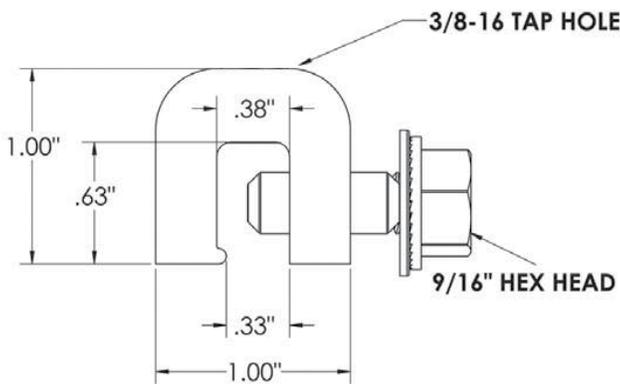
Shown: Part# 5083-W

### A2®-M (Mini Clamp)

- Pre-assembled clamp allows for a quick and easy installation
- Non-penetrating sliding pin design does not damage the panel
- 3rd party tested for load resistance
- Used for added strength for structural, solar, wind and seismic needs
- *Installs in half the time of competitive products\**



### Specifications



#### RECOMMENDED TORQUE SPECS

	24ga steel	Aluminum	Copper
Mini	175	135	n/a

The above is a general recommendation which varies by material type and panel thickness. For additional panel profiles and torque specs visit [www.AceClamp.com](http://www.AceClamp.com)



Shown: Part# 5083-M





# BAR SYSTEMS SNOW RETENTION

FOR SSMR



## FAST-INSTALLING SNOW BARS

■ AVAILABLE FOR 1, 2 & 3 RAIL CONFIGURATIONS



■ ARRIVES FULLY ASSEMBLED >

**ACE**  
**CLAMP**<sup>®</sup>  
Innovative Roofing Solutions™



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## End Collars (Part #834-14AL)

End Collars are typically secured to the opposing ends of a Snow Bar system to prevent a section of bar from moving left to right. Collars are secured in place with a set screw. Collars are supplied in Aluminum, but can be manufactured in Stainless Steel or Brass.



## End Caps (Part #031102-4)

End Caps are typically used from a functional standpoint to prevent water and debris from entering the bar while adding an aesthetically pleasing appearance. End Caps are manufactured in Stainless Steel and Brass.



## Couplers (Part #5094)

Couplers are used to connect one length of Snow Bar to a second piece of bar. They are a base material of Aluminum, but can be ordered in Stainless Steel or Brass. Couplers are inserted into two lengths of bars and are then rotated in the opposite direction, which tighten the bars and create one continuous length of bar.



## Bars (Part #031102-pipe 8 & 031102-pipe 10)

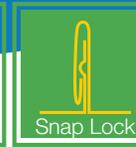
Length	Description	Size	Material
7.5'	Bar	1" O.D.x 3/4" I.D.	AL, SS, Brass
Note: All piping is available in AL 6061, S.S. 300 Series and Brass 272 Series			





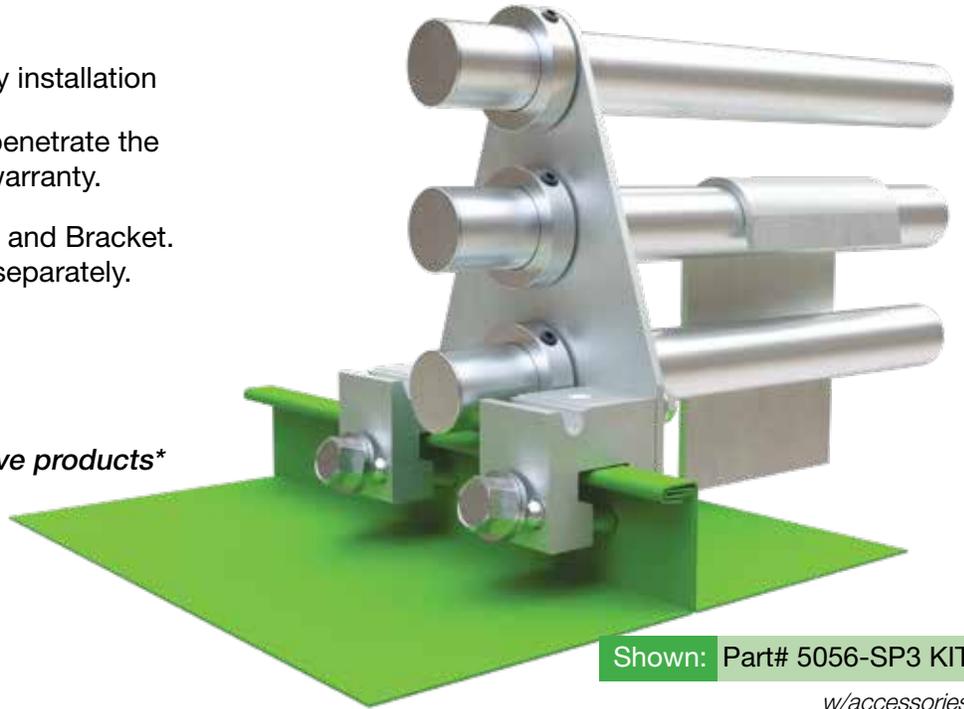
# BAR SYSTEMS SNOW RETENTION

FOR SSMR



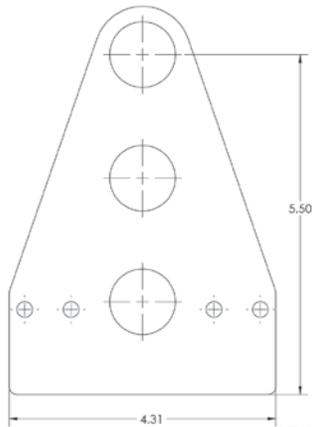
## A2® Bar Snow Guard System

- Pre-assembled clamp allows for easy installation
- Patented slide-pin design does not penetrate the roof panel, therefore protecting the warranty.
- Assembly includes necessary Clamp and Bracket. Collars, Ice Flags and Bars are sold separately.
- Aircraft quality aluminum
- All stainless-steel hardware
- **Installs in half the time of competitive products\***



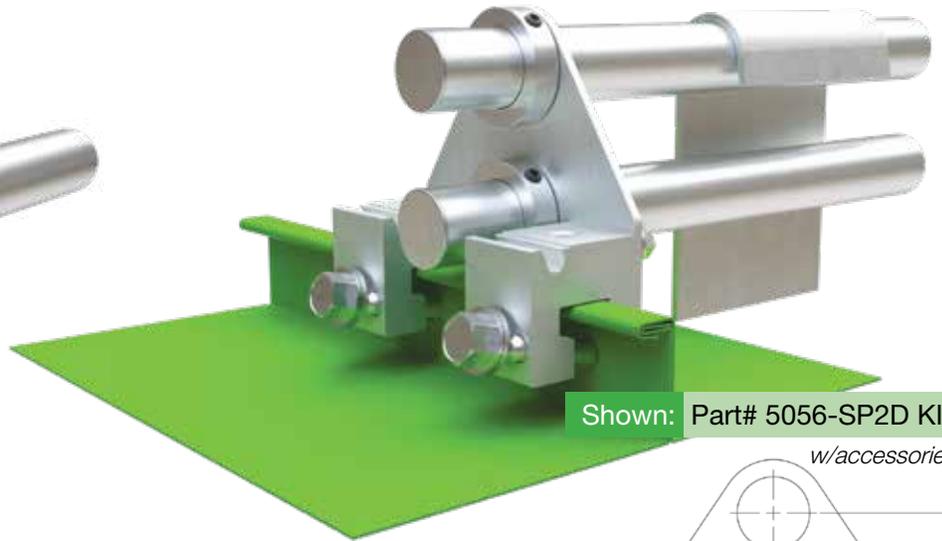
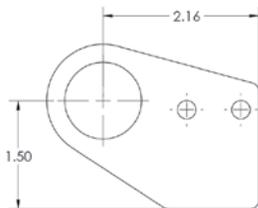
Shown: Part# 5056-SP3 KIT

w/accessories



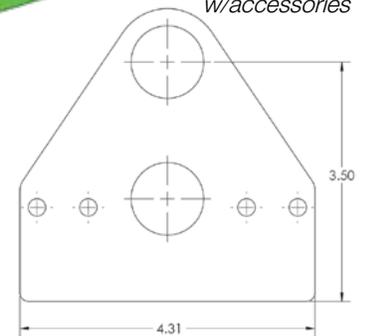
Shown: Part# 5056-SP1 KIT

w/accessories



Shown: Part# 5056-SP2D KIT

w/accessories



SCAN FOR TORQUE SPECS OR REFER TO PAPERWORK WITH PRODUCT PACKAGING

# ACE CLAMP®

Innovative Roofing Solutions™



Easy terms • No contracts • No minimums



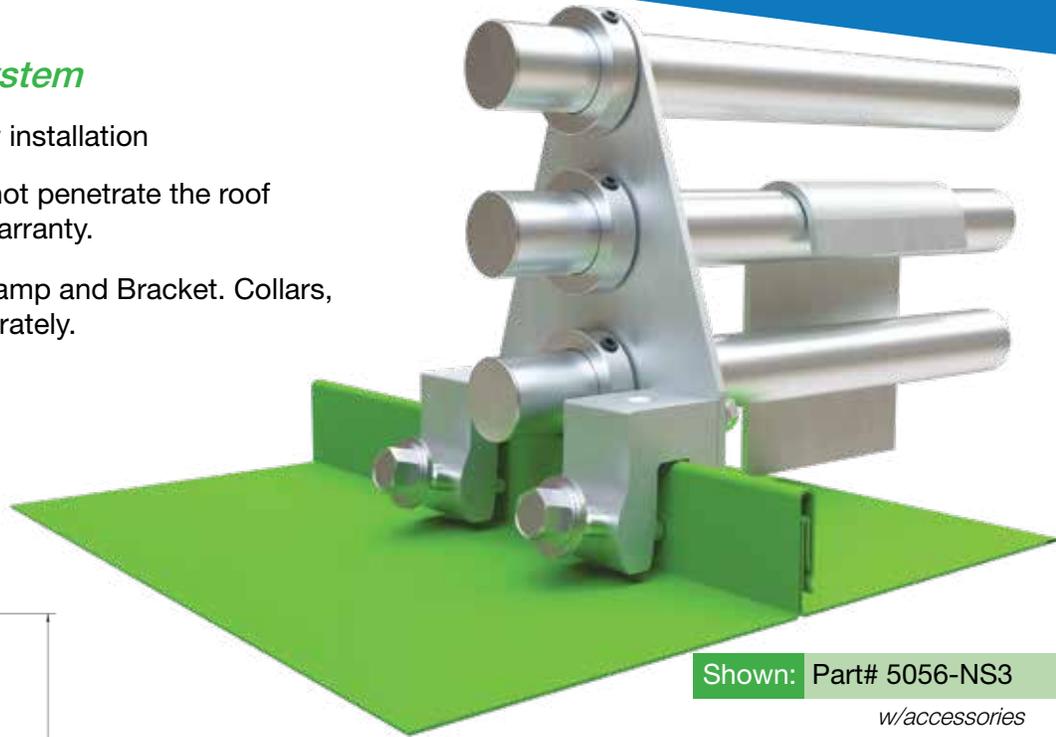
\*Based on typical contractor experiences. Photos shown are for representative purposes only. Actual product may vary. Design subject to change without notice. Additional panel profiles & torque specs: [aceclamp.com](http://aceclamp.com). Always use proper safety equipment when working on a roof. Do NOT use as a personal fall safety device.



## A2<sup>®</sup>N<sup>™</sup> Bar Snow Guard System

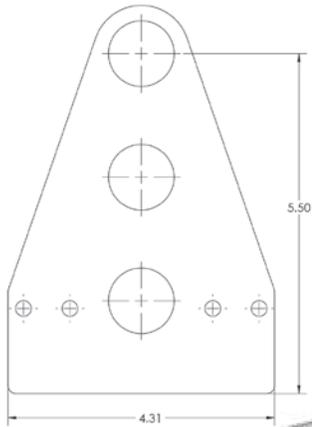
Pre-assembled clamp allows for easy installation

- Patented slide-pin design does not penetrate the roof panel, therefore protecting the warranty.
- Assembly includes necessary Clamp and Bracket. Collars, Ice Flags and Bars are sold separately.
- Aircraft quality aluminum
- All stainless-steel hardware
- *Installs in half the time of competitive products\**



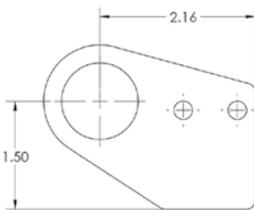
Shown: Part# 5056-NS3

w/accessories



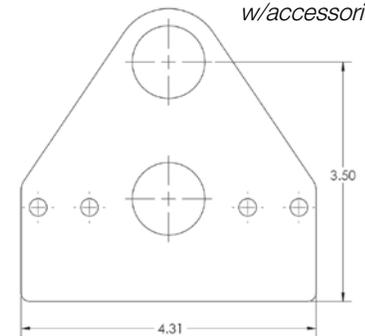
Shown: Part# 5056-NS1

w/accessories



Shown: Part# 5056-NS2D

w/accessories



SCAN FOR TORQUE SPECS OR REFER TO PAPERWORK WITH PRODUCT PACKAGING





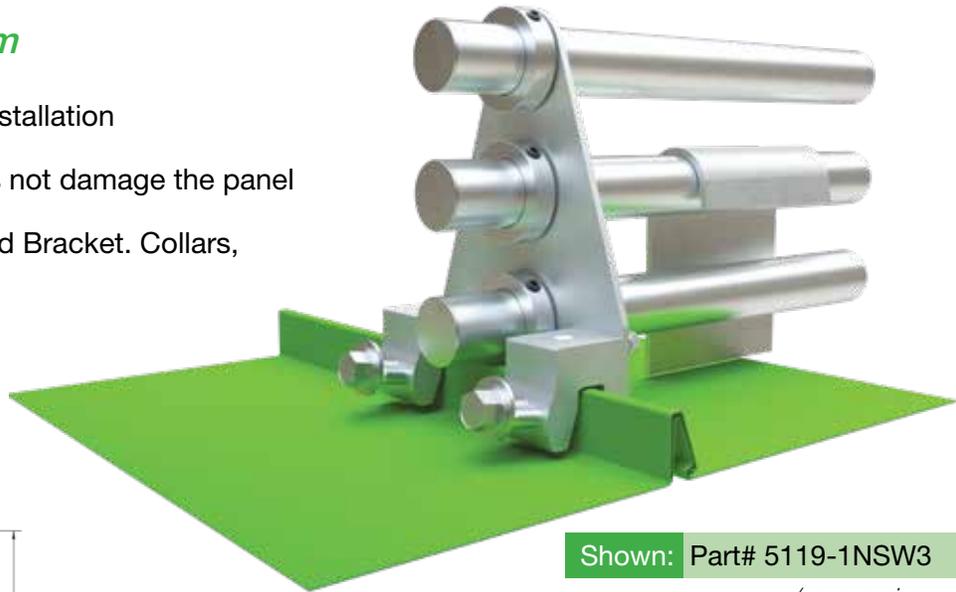
# BAR SYSTEMS SNOW RETENTION

FOR SSMR

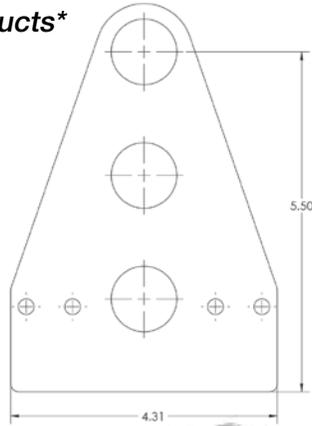


## A2® Nw™ Bar Snow Guard System

- Pre-assembled clamp allows for easy installation
- Non-penetrating sliding pin design does not damage the panel
- Assembly includes necessary Clamp and Bracket. Collars, Ice Flags and Bars are sold separately.
- Aircraft quality aluminum
- All stainless-steel hardware
- *Installs in half the time of competitive products\**



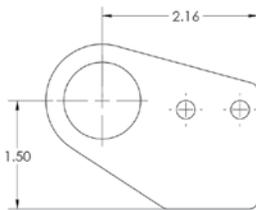
Shown: Part# 5119-1NSW3  
w/accessories



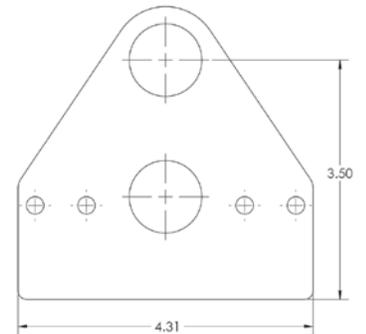
Shown: Part# 5119-1NSW1  
w/accessories



Shown: Part# 5119-1NSW2  
w/accessories



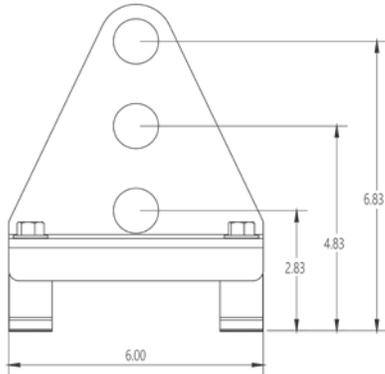
SCAN FOR TORQUE SPECS OR REFER TO PAPERWORK WITH PRODUCT PACKAGING



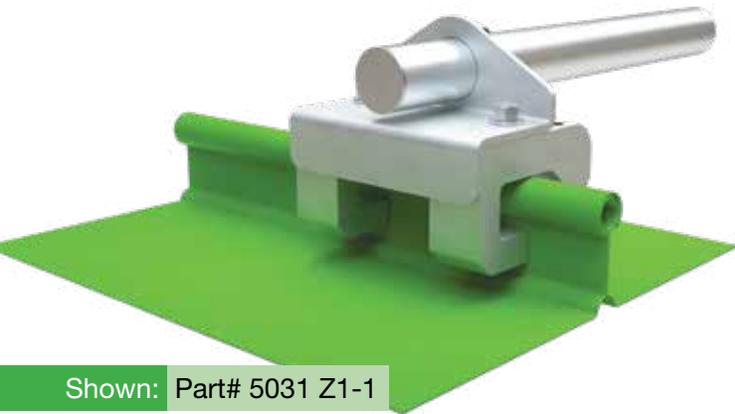
## ML™ Bar Snow Guard System



- Pre-assembled clamp allows for easy installation
- Assembly includes necessary Clamp and Bracket. Collars, Ice Flags and Bars are sold separately.
- Aircraft quality aluminum
- All stainless-steel hardware
- **Installs in half the time of competitive products\***



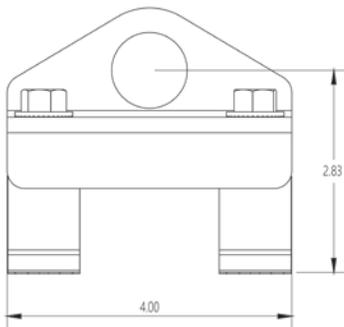
Shown: Part# 5031 Z3-3  
w/accessories



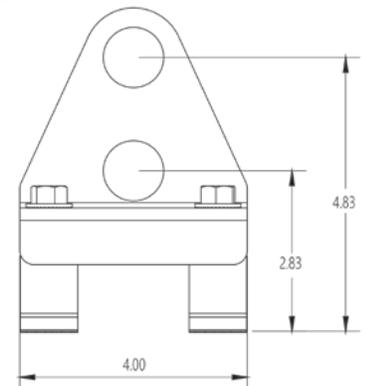
Shown: Part# 5031 Z1-1  
w/accessories



Shown: Part# 5031 Z2-2  
w/accessories



SCAN FOR TORQUE SPECS OR REFER TO PAPERWORK WITH PRODUCT PACKAGING



**ACE  
CLAMP®**  
Innovative Roofing Solutions™



Free Samples and Ordering:  
860-351-0686 / [www.AceClamp.com](http://www.AceClamp.com)

\*Based on typical contractor experiences. Photos shown are for representative purposes only. Actual product may vary. Design subject to change without notice. Additional panel profiles & torque specs: [aceclamp.com](http://aceclamp.com). Always use proper safety equipment when working on a roof. Do NOT use as a personal fall safety device.



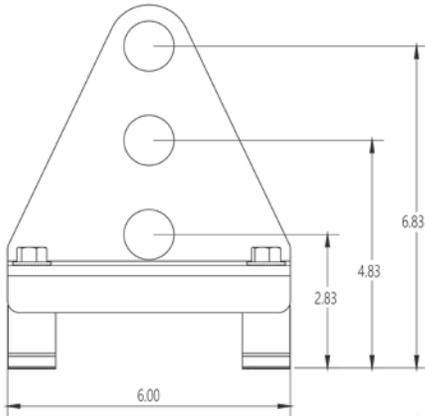
# BAR SYSTEMS SNOW RETENTION

FOR SSMR

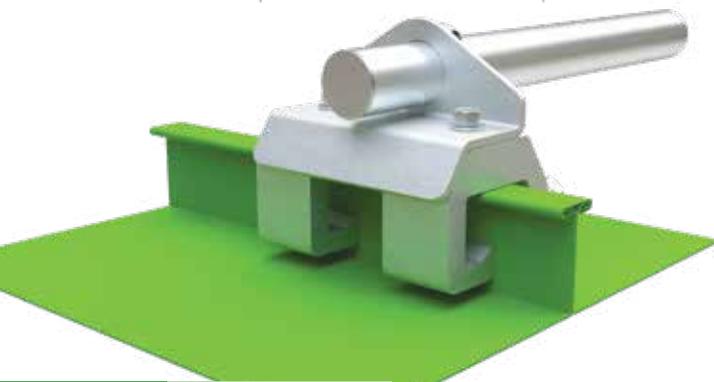


## A2®T Bar Snow Guard System

- Pre-assembled clamp allows for easy torque installation
- Assembly includes necessary Clamp and Bracket. Collars, Ice Flags and Bars are sold separately.
- **Installs in half the time of competitive products!**



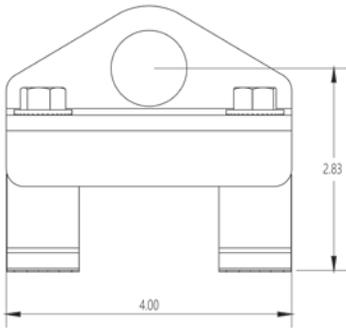
Shown: Part# 5056 Z3-T  
w/accessories



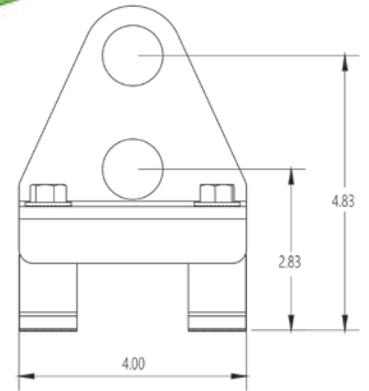
Shown: Part# 5056 Z1-T  
w/accessories



Shown: Part# 5056 Z2-T  
w/accessories



SCAN FOR TORQUE SPECS OR REFER TO PAPERWORK WITH PRODUCT PACKAGING





## 2-Bar, Membrane Snow Guard System

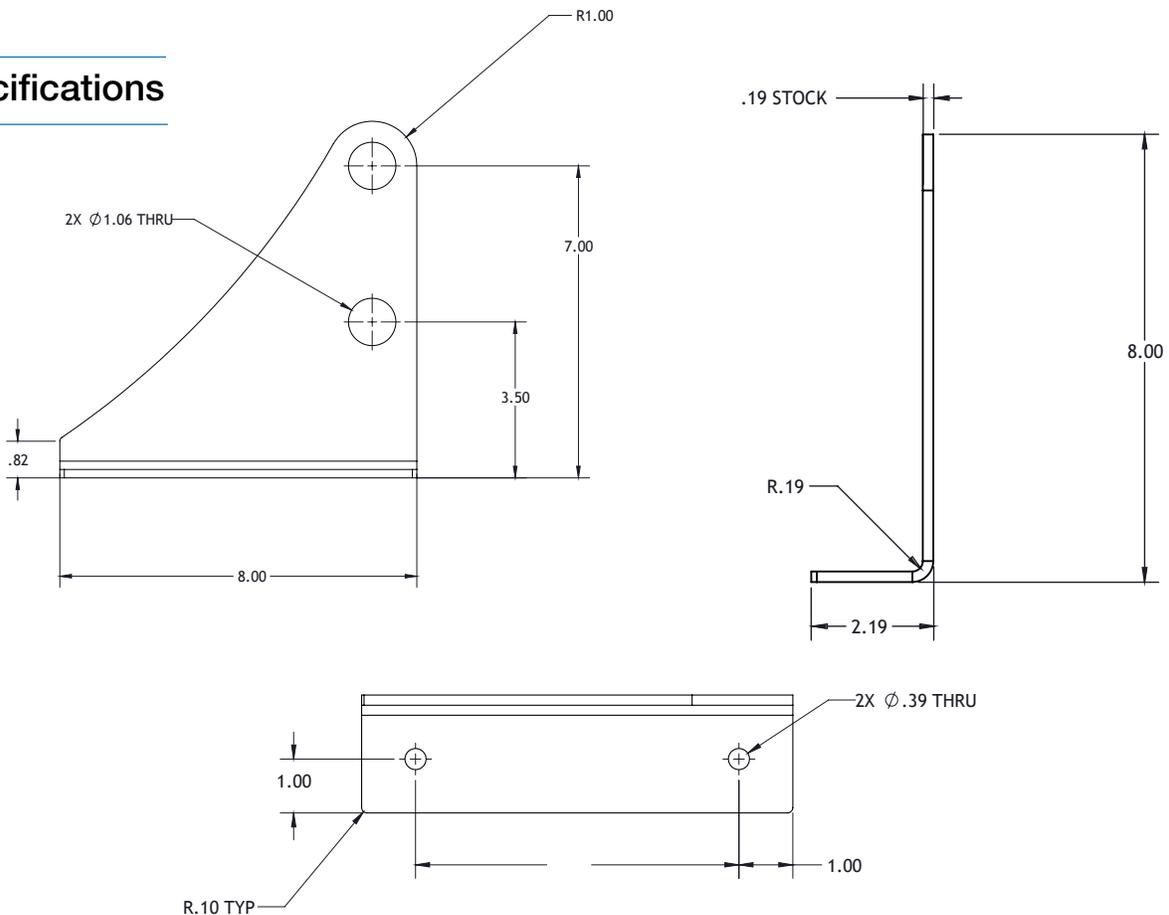
- No cuts, wood blocking, flashing or adhesives!
- Bolt down bracket allows for easy installation
- Also available in a 3-bar configuration w/ 6" bracket for heavy duty needs
- Assembly includes necessary Bracket. Membrane Pads, Collars, Ice Flags and Bars are sold separately.
- *Installs in half the time of competitive products\**



Shown: Part# 5096-ST-MB

w/accessories

### Specifications





# RAIL SYSTEMS SNOW RETENTION

FOR SSMR

# COLOR Snap®

## SOMETIMES IT'S GOOD TO JUST BLEND IN

■ **INSTALLS IN A SNAP, LETTING YOU  
MATCH YOUR SNOW RETENTION  
TO YOUR SSMR**

### KEY BENEFITS:

- ✓ Utilizes AceClamp's® fully-assembled clamps
- ✓ Single-tool install
- ✓ Patented lock pins help safeguard powdercoat
- ✓ Load tested by 3rd party
- ✓ Engineering layouts available from AceClamp®
- ✓ Installs in half the time and costs!\*



Match your roof



Snap-In Rail Connector

Snap-in Ice Clips

Not only does the rail snap in place, but the Ice Clip is the first of its kind on the market that is a snap-fit as well. No screws are needed to hold this Ice Clip securely.

PG 31

Color Snap®-M

# ACE CLAMP®

Innovative Roofing Solutions™



Easy terms • No contracts • No minimums



\*Based on typical contractor experiences. Photos shown are for representative purposes only. Actual product may vary. Design subject to change without notice. Additional panel profiles & torque specs: [aceclamp.com](http://aceclamp.com). Always use proper safety equipment when working on a roof. Do NOT use as a personal fall safety device.



## Color Snap® Rail System

Color Snap® installs in a snap and provides an easy way to add color to your SSMR (Standing Seam Metal Roof). Utilizing any of AceClamp's® fully-assembled clamps, this modern design snow rail presents two "snap-in" features that can significantly reduce installation time and labor costs. Not only does the rail snap in place, but the Ice Clip is the first of its kind on the market that is a snap-fit as well. No screws are needed to hold this Ice Clip securely.

- Unique patented design offers uncompromising strength
- Commercial & residential application
- High lateral resistance
- Bar is available in 7.5'
- Ice clips have two *snap-in* locations on rail and come in 2", 2.6" and 3.37" lengths
- Assembly includes necessary Rail and Connector. Clamp with Top Block and Ice Clip are sold separately.
- **Installs in half the time of competitive products\***



Shown: Part# 5096-A2 KIT  
w/accessories



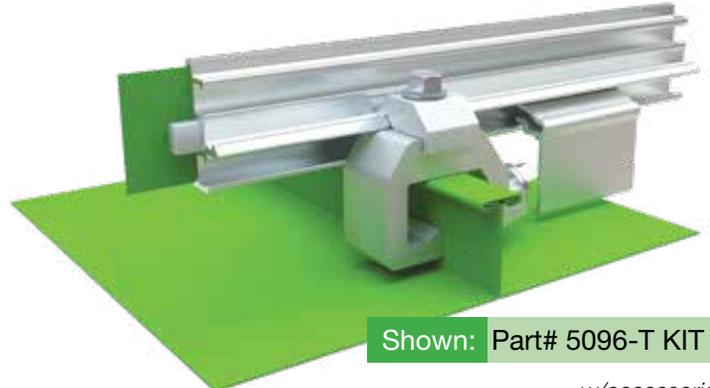
Shown: Part# 5096-A2N KIT  
w/accessories



Shown: Part# 5096-A2Nw KIT  
w/accessories



Shown: Part# 5096-ML KIT  
w/accessories



Shown: Part# 5096-T KIT  
w/accessories





# RAIL SYSTEMS SNOW RETENTION

FOR MEMBRANE

## FASTEST AND EASIEST MEMBRANE INSTALL ON THE MARKET

### COLOR Snap®-M

Originally designed specifically for SSMR (Standing Seam Metal Roofs), Color Snap®-M is now available for the *low-slope, single-ply membrane roof market*. When installed in conjunction with a MCP (Membrane Covered Plate), it retains its history of the fastest and easiest snow retention system on the market.

### KEY BENEFITS:

- ✓ No cuts, wood blocking, additional flashing or adhesives!
- ✓ Installs in half the time!\*
- ✓ Uses ready-available technology & products
- ✓ Color Snap® insert to match existing roofing material
- ✓ Load tested by 3rd party
- ✓ Engineering layouts available from AceClamp®



Secured by fasteners through the membrane and heat welded in place, providing a water-tight seal!



### DAMAGE FROM SNOW LOADS CAN BE SUBSTANTIAL & COSTLY.



above: Vent damage from typical snow loads

Existing products for low sloped roofs can require large holes to be cut through the top membrane, removal of insulation down to the substrate and installation of wood blocking. Brackets are then attached to the blocking and additional flashing must be installed, in hopes of providing a leak-proof assembly.

*\*Based on typical contractor experiences.*

# ACE CLAMP®

Innovative Roofing Solutions™



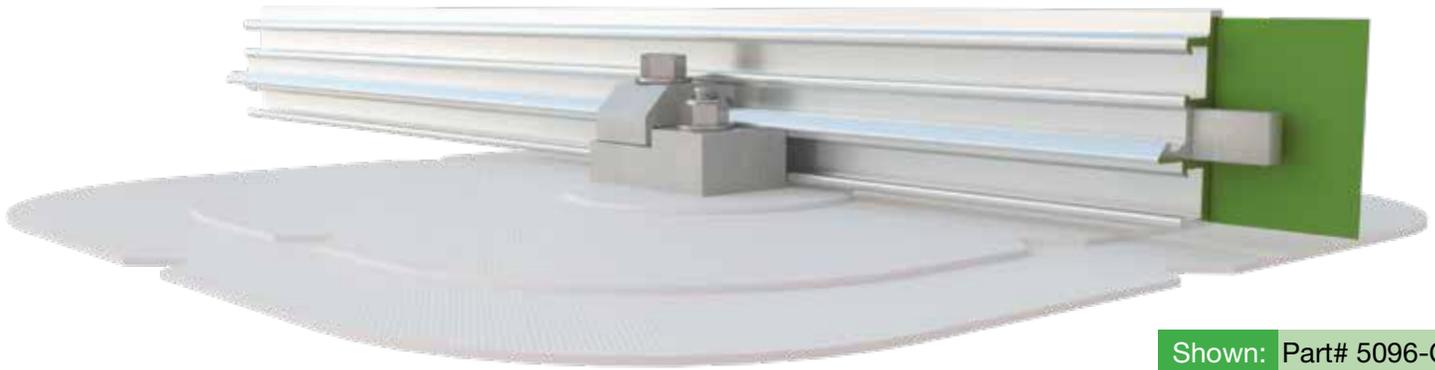
Easy terms • No contracts • No minimums



\*Based on typical contractor experiences. Photos shown are for representative purposes only. Actual product may vary. Design subject to change without notice. Additional panel profiles & torque specs: [aceclamp.com](http://aceclamp.com). Always use proper safety equipment when working on a roof. Do NOT use as a personal fall safety device.



## Color Snap®-M Rail System



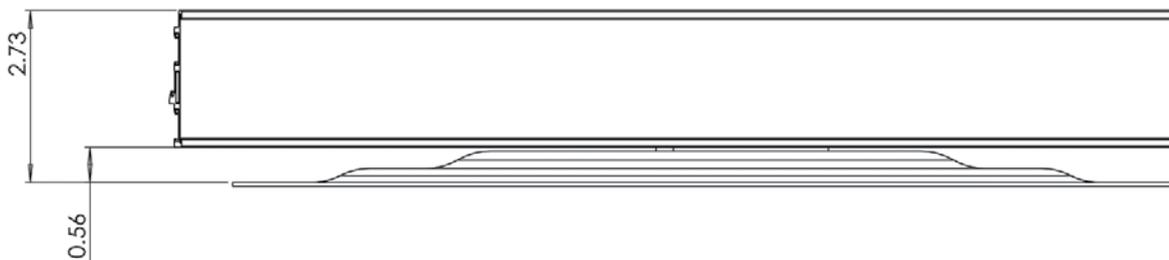
Shown: Part# 5096-CSM

w/accessories

# THE TIME-SAVING SNOW RETENTION SOLUTION FOR LOW-SLOPE MEMBRANE ROOFS

- Integral flashing heat welded to thermoplastic roof surface. Adhesive only required for EPDM.
- Unique patented design offers uncompromising strength
- Commercial low-slope roofs
- Uses proven technology & products
- Color Snap® insert matches existing roof material
- Load tested by third party
- Engineering layouts available from AceClamp®
- Typical installation on center 24" to 36"
- Ice clips not required
- Available in all commercially manufactured roof types such as EPDM, TPO, KEE, PVC

## Specifications



Also shown: Color Snap Bar Part# 5096-CS (7.5' avail)





# RAIL SYSTEMS SNOW RETENTION

FOR SSMR

## BUILT TO BATTLE THE TOUGHEST OF BLIZZARDS

Handles up to 48" spans

**SNOW  
TITAN**<sup>®</sup>  
Your Rooftop Warrior<sup>™</sup>

**FOR EXTREME SNOW LOADS**



**PG 33**

A2<sup>®</sup> Snow Titan<sup>®</sup>



**PG 34**

Snow Titan<sup>®</sup>-M

**ALSO AVAILABLE FOR MEMBRANE ROOFING**

**ACE  
CLAMP**<sup>®</sup>  
Innovative Roofing Solutions<sup>™</sup>



Easy terms • No contracts • No minimums



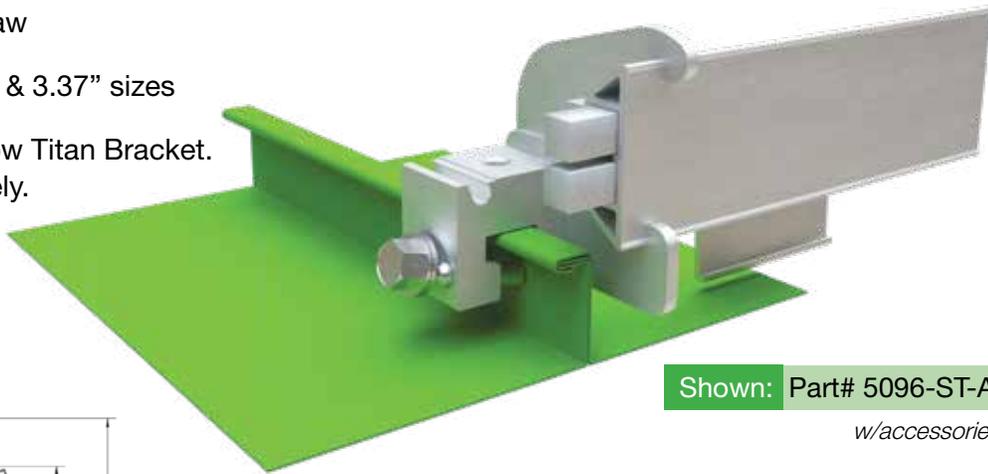
\*Based on typical contractor experiences. Photos shown are for representative purposes only. Actual product may vary. Design subject to change without notice. Additional panel profiles & torque specs: [aceclamp.com](http://aceclamp.com). Always use proper safety equipment when working on a roof. Do NOT use as a personal fall safety device.

## Snow Titan® Snow Rail System

This system is designed to handle *heavier snow loads*

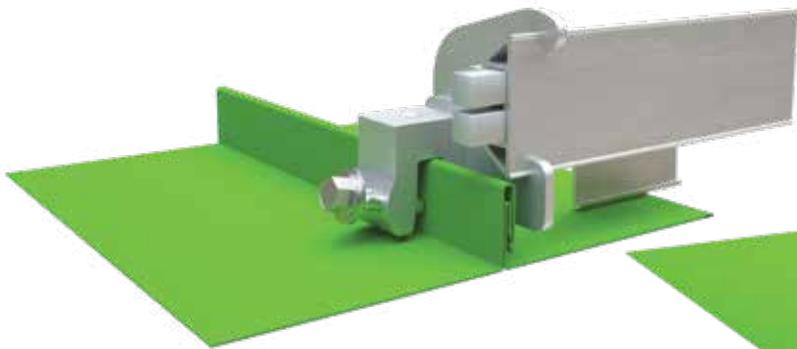
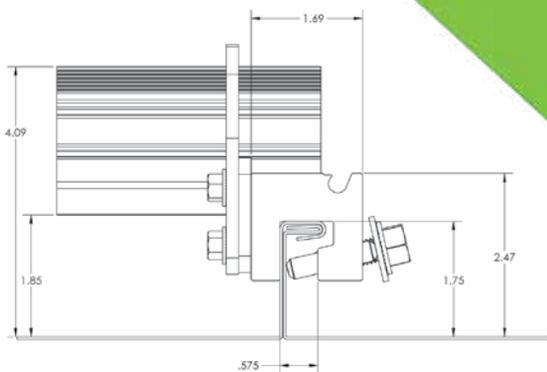


- Pre-assembled clamp allows for easy installation
- Our patented, non-penetrating sliding-pin design helps to protect the panel and warranty
- One-of-a-kind strong clamping claw
- Snap-in Ice Clips come in 2", 2.6" & 3.37" sizes
- Assembly includes necessary Snow Titan Bracket. Rail and Ice Clip are sold separately.



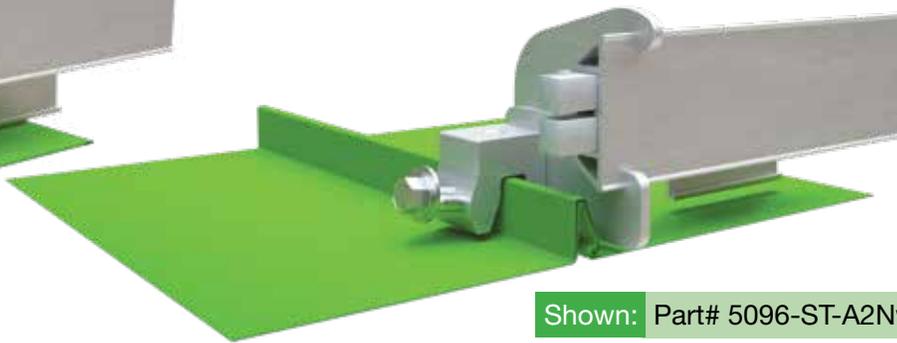
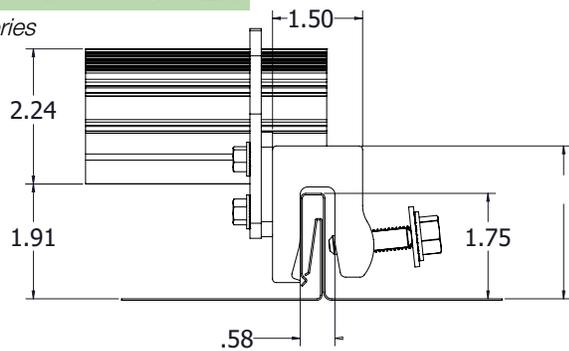
Shown: Part# 5096-ST-A2

w/accessories



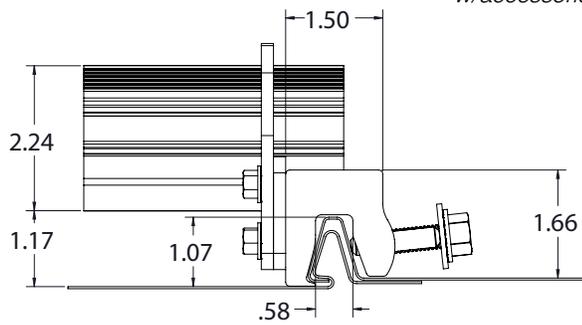
Shown: Part# 5096-ST-A2N

w/accessories



Shown: Part# 5096-ST-A2Nw

w/accessories





# RAIL SYSTEMS SNOW RETENTION

FOR MEMBRANE

## STRONG HOLDING POWER FOR LOW SLOPED ROOFS



### KEY BENEFITS:

- ✓ No cuts, wood blocking, additional flashing or adhesives!
- ✓ Installs in half the time!\*
- ✓ Uses ready-available technology & products
- ✓ Available rail insert to match existing roofing material
- ✓ Load tested by 3rd party
- ✓ Engineering layouts available from AceClamp®



Secured by a single fastener through the membrane and heat welded in place, providing a water-tight seal!

Our uniquely designed snow rail has been tested against the heaviest of loads, making it the best choice for areas with extreme snow loads.



### DAMAGE FROM SNOW LOADS CAN BE SUBSTANTIAL & COSTLY.



above: Vent damage from typical snow loads

Existing products for low sloped roofs can require large holes to be cut through the top membrane, removal of insulation down to the substrate and installation of wood blocking. Brackets are then attached to the blocking and additional flashing must be installed, in hopes of providing a leak-proof assembly.

*\*Based on typical contractor experiences.*



Easy terms • No contracts • No minimums



\*Based on typical contractor experiences. Photos shown are for representative purposes only. Actual product may vary. Design subject to change without notice. Additional panel profiles & torque specs: [aceclamp.com](http://aceclamp.com). Always use proper safety equipment when working on a roof. Do NOT use as a personal fall safety device.



## Snow Titan®-M Heavy Duty Membrane Snow Guard System

This system is designed to handle *heavier snow loads on low slope roofs*

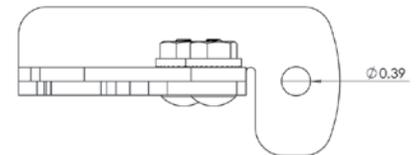
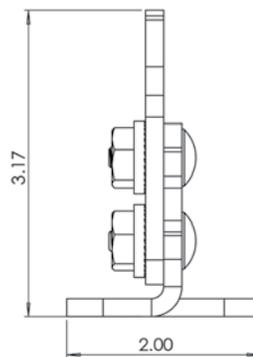
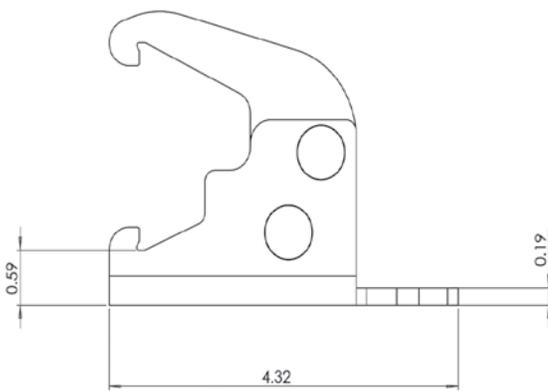
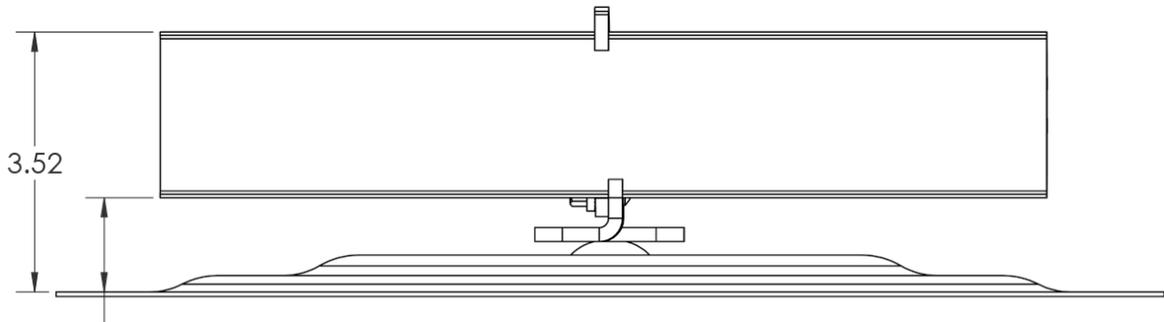
- Originally designed for 42" insulated panels and can weather extreme applications
- No cuts, wood blocking, flashing or adhesives!
- Screw down bracket allows for easy installation
- Assembly includes necessary Snow Titan Bracket. Membrane Pad, Rail and Connectors are sold separately.
- Ice Clips snap into place for easy installation (custom ice flags sold separately)
- Installs in half the time of competitive products\*



### Specifications

Shown: Part# 5096-ST-MB KIT

w/accessories



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CLAMP®**  
Innovative Roofing Solutions™



Free Samples and Ordering:  
860-351-0686 / [www.AceClamp.com](http://www.AceClamp.com)

\*Based on typical contractor experiences. Photos shown are for representative purposes only. Actual product may vary. Design subject to change without notice. Additional panel profiles & torque specs: [aceclamp.com](http://aceclamp.com). Always use proper safety equipment when working on a roof. Do NOT use as a personal fall safety device.



# RAIL SYSTEMS SNOW RETENTION

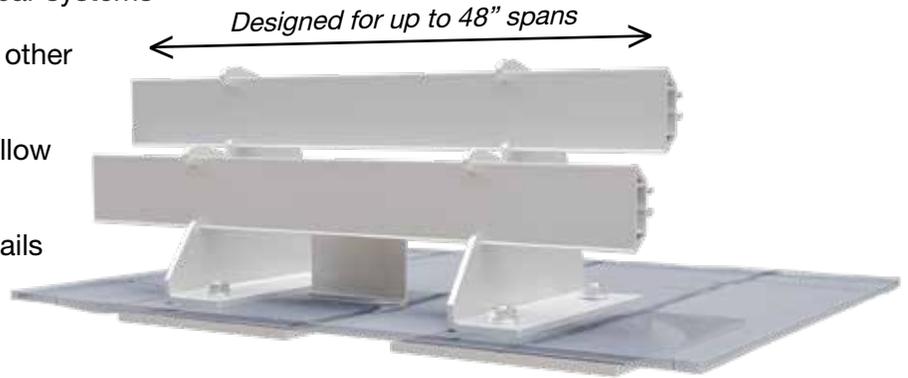
FOR SLATE



## Snow Titan® 2-Rail, Heavy Duty Snow Guard System

This system is designed to handle *heavier snow loads*

- A more vertically designed alternative for bar systems
- Specific to slate roofs, but can be used in other applications
- Bolt down bracket and snap in Ice Clips allow for easy installation
- Assembly includes necessary Brackets. Rails and Ice Clips sold separately.
- Base plate is customized
- **Installs in half the time of competitive products\***

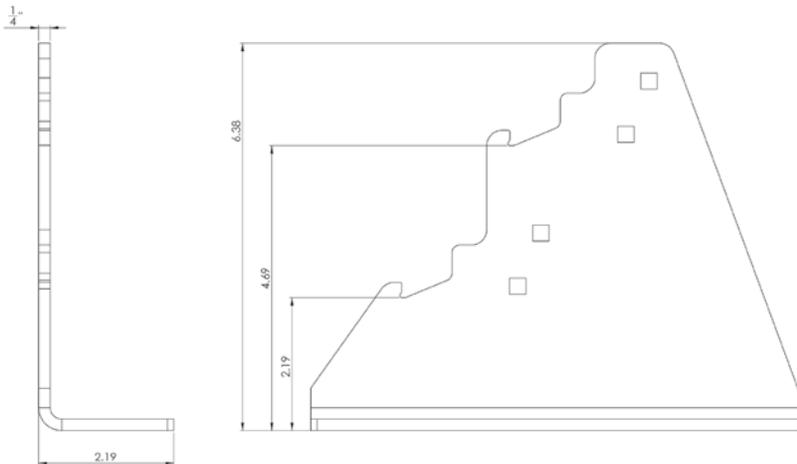


(see page 38-39, 42 for custom brackets and baseplates)

Shown: Part# 5069-DD-ST KIT

w/accessories

### Specifications



# THE RIGID SOLUTION FOR YOUR RIDGED ROOF



The reliable, premium-grade AceClamp® snow retention rail system for corrugated roofs



neoprene strips secure snow guards and prevent leaks



optional ice flags prevent ice sheeting



twist and lock to connect tubing



**ALSO AVAILABLE FOR NON-SEAMED ROOFS  
LIKE ASPHALT & SLATE**

**ACE  
CLAMP®**  
Innovative Roofing Solutions™



Free Samples and Ordering:

860-351-0686 / [www.AceClamp.com](http://www.AceClamp.com)

\*Based on typical contractor experiences. Photos shown are for representative purposes only. Actual product may vary. Design subject to change without notice. Additional panel profiles & torque specs: [aceclamp.com](http://aceclamp.com). Always use proper safety equipment when working on a roof. Do NOT use as a personal fall safety device.



# BRACKETS SNOW RETENTION

FOR NON-SEAMED ROOFS



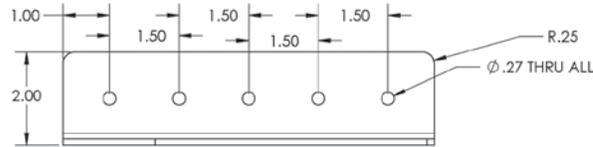
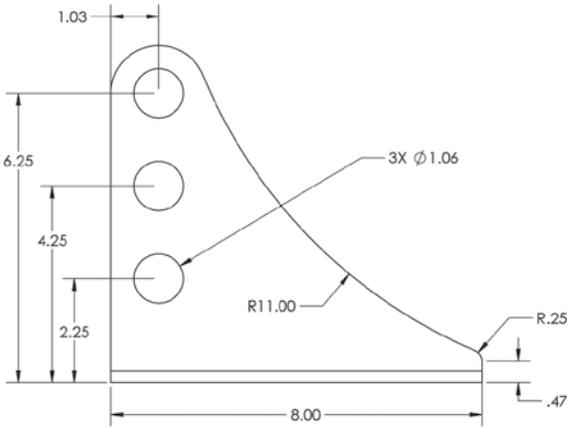
## Standard Bar Snow Bracket

This system is designed for *light to medium snow loads*

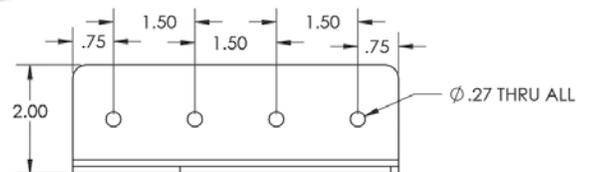
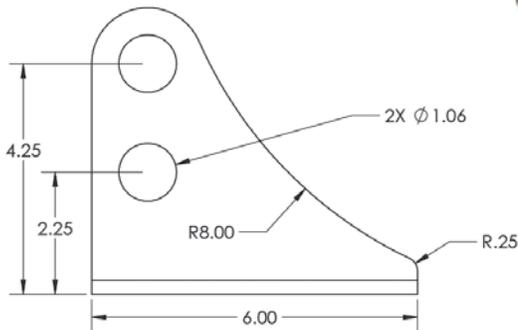
- Designed for screw down applications for metal, slate or asphalt
- Installation to be completed in accordance with the manufacturer's written specifications and installation instructions.
- Manufactured in Aluminum, Stainless Steel or Brass
- Contact AceClamp® for custom layouts and materials
- Slate applications require a base plate, which is sold separately. (see page 42)

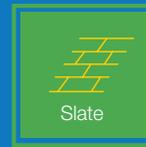


Shown: Part# 5070-3



Shown: Part# 5070-2





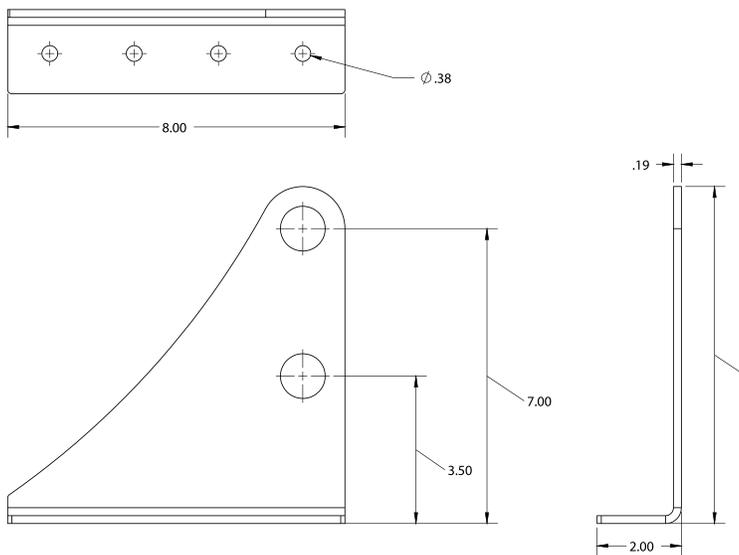
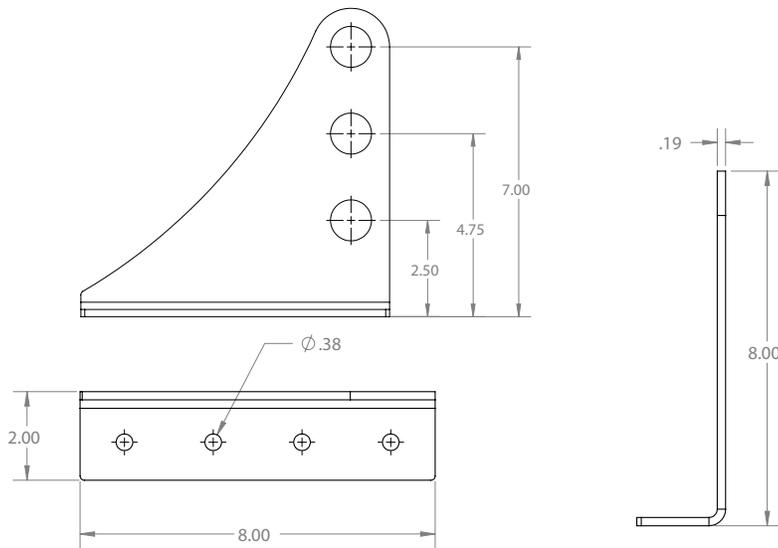
## Heavy Duty Bar Snow Bracket

This system is designed for *heavier snow loads*

- Installation to be completed in accordance with the manufacturer's written specifications and installation instructions.
- Contact AceClamp® for custom layouts and materials
- Slate applications require a base plate, which is sold separately. (see page 42)



Shown: Part# 5070-HD-3.4



Shown: Part# 5070-HD-2.4





# BAR SYSTEM SNOW RETENTION

FOR VARIABLE ANGLED ROOFS

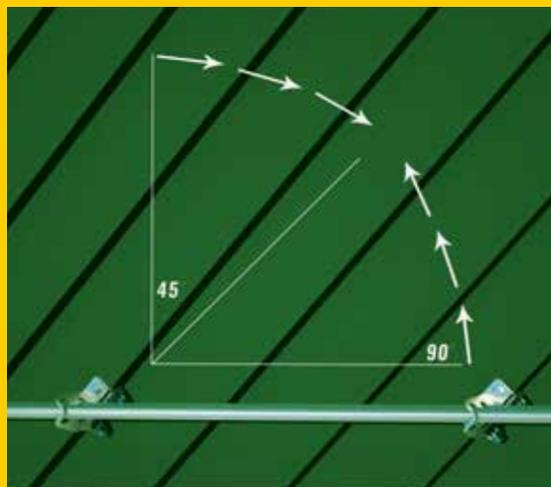
INTRODUCING

# VAB™

patent pending

## A NEW ANGLE ON AN OLD PROBLEM

THE NEW VAB™ IS THE FIRST VARIABLE ANGLED BRACKET OF ITS KIND, MAKING IT POSSIBLE TO INSTALL SNOW RETENTION ON AN INCLINED SURFACE WITHOUT THE NEED TO ADD ADDITIONAL SNOW GUARD PROTECTION ABOVE IT.



Unique design allows the snow retention system to follow the direction of the eave but swivels to attach to the varying angles of the roof panel ribs.

Adjusts to accommodate complex installation scenarios. VAB is available in both left and right configurations

Utilizes AceClamp® non-penetrating components for quick and easy installations

# ACE CLAMP®



Easy terms • No contracts • No minimums



40

Innovative Roofing Solutions™

\*Based on typical contractor experiences. Photos shown are for representative purposes only. Actual product may vary. Design subject to change without notice. Additional panel profiles & torque specs: [aceclamp.com](http://aceclamp.com). Always use proper safety equipment when working on a roof. Do NOT use as a personal fall safety device.

Available for all roof styles. Inquire with your sales rep.

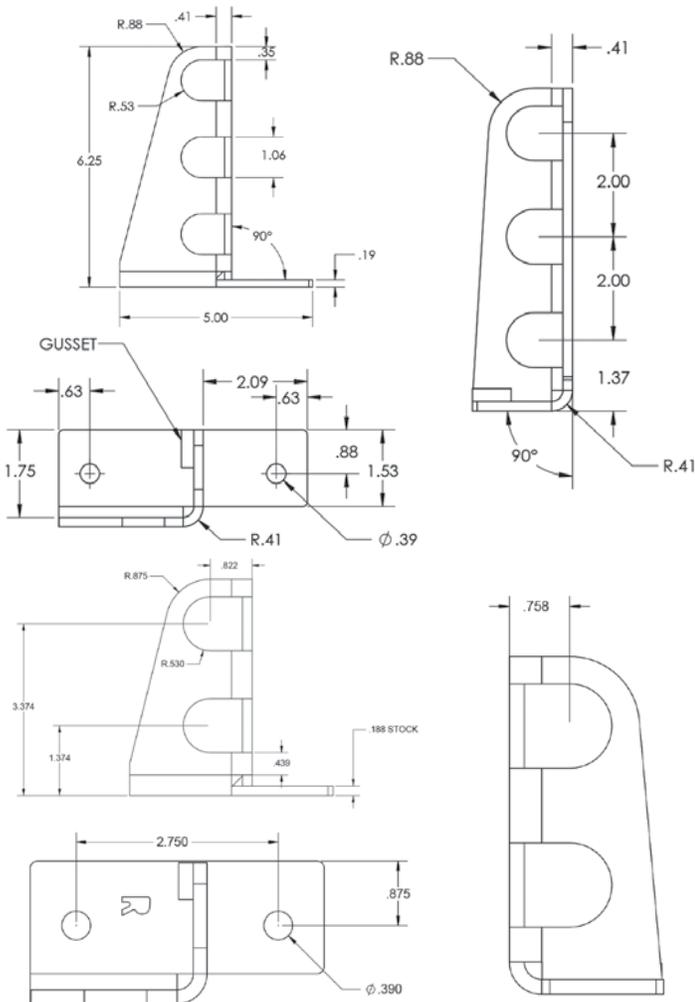
## VAB™ (Variable Angle Bracket)

US Patent# D,866,305 & D,866,306

A flexible system for non-standard installations

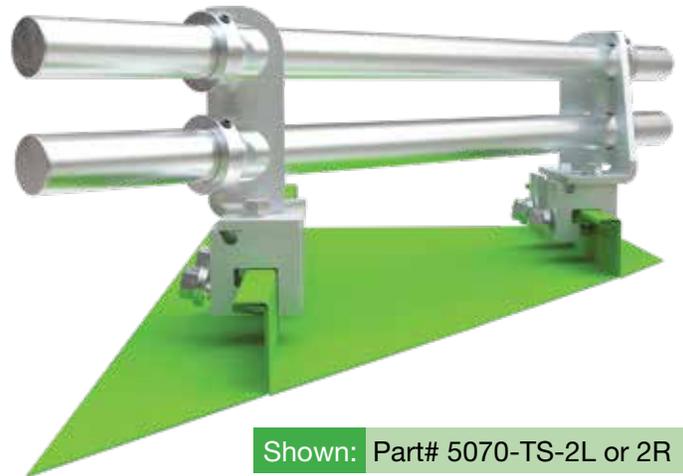
- Easily installs to any angle to contain drifting snow
- Can also be added on gable & hip roofs where secondary & tertiary snow loads exist
- Can provide a snow defense for any angles other than 90 degrees
- Eliminates the need for multiple snow retention rows, parallel to the eave or ridge
- Assembly includes necessary Clamp and Bracket. Collars, Bars and Ice Flags sold separately.

### Specifications



Shown: Part# 5070-TS-3L or 3R

w/accessories



Shown: Part# 5070-TS-2L or 2R

w/accessories

**ACE**  
**CLAMP**®  
Innovative Roofing Solutions™



Free Samples and Ordering:

860-351-0686 / [www.AceClamp.com](http://www.AceClamp.com)

\*Based on typical contractor experiences. Photos shown are for representative purposes only. Actual product may vary. Design subject to change without notice. Additional panel profiles & torque specs: [aceclamp.com](http://aceclamp.com). Always use proper safety equipment when working on a roof. Do NOT use as a personal fall safety device.



# BAR SYSTEM SNOW RETENTION

FOR SLATE



## Bar Snow Bracket Kit

This system is designed for non-metal roof applications and is built to handle *heavy snow loads*.

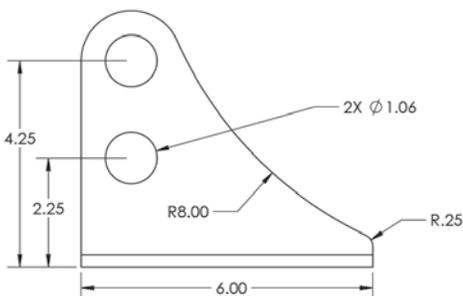
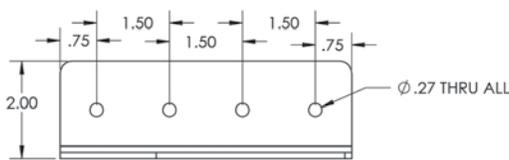
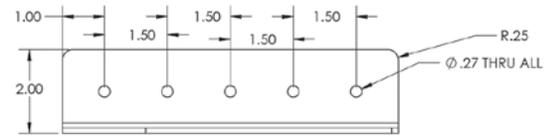
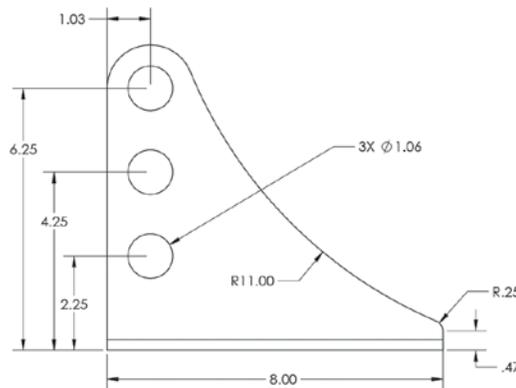
- Installation to be completed in accordance with the manufacturer's written specifications and installation instructions.
- Manufactured in Aluminum, Stainless Steel or Brass
- Contact AceClamp® for custom layouts and materials
- Slate applications require a base plate, which is sold separately
- Custom ice flags sold separately



Shown: Part# 3HK-AL

w/accessories

## Specifications



Shown: Part# 2HK-AL

w/accessories



Easy terms • No contracts • No minimums



# Customization Options



BRASS & CUSTOM BY SPECIAL ORDER



OVER 180 COLOR OPTIONS AVAILABLE



POWDER COATING



visit [aceclamp.com](http://aceclamp.com) for color charts



**ACE CLAMP**<sup>®</sup>  
Innovative Roofing Solutions<sup>™</sup>



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# SOLAR PANELS IN SNOW COUNTRY

Safety concerns regarding rooftop snow avalanches



**HOLDS THE SNOW BACK  
UNTIL IT HAS TIME TO MELT**

**Spacing:** Our new *High Bar Brackets* should be installed 3 feet below the solar array.

## **Here are a few winter safety precautions that you may need to be aware of to help prevent potentially dangerous situations this winter.**

The smooth surface of solar panels coupled with the equally smooth surface of a standing seam metal roof can result in a very sudden slide of snow in quantities large enough to cause severe damage to anything or anyone below. One of the most economical ways to prevent a snow “avalanche” is to install a snow retention system or “snow guards.”

Snow Guards aren’t new. Used frequently to stop snow from suddenly falling off the slick surfaces of metal roofs, Snow Guards are now offered in a variety of styles and types and are available for almost every kind of roofing material. The most effective snow guards consist of brackets that attach to the roof near the eave and support a bar or multiple bars running parallel to the eave across the length of the roof. Snow guards can also be installed over a walkway, doors, or delicate shrubs, and are available in both bar or rail types. Regardless of the style selected, the layout and specifications should be designed to meet your local snow load requirements.

Having a snow retention plan created along with the PV Panel plan will help maximize rooftop space and also determine the height necessary for the snow retention system to hold back the snow sliding off the array. A trained designer will take into account the local building code snow loads, roof pitch and roofing surface materials to best plan and design the solar array placement along with the snow retention system. They’ll also consider whether your PV panels need to be installed with a racking system or as a rack-less system, and what the distance from the top of the PV panels to the rooftop will need to be.

Local fire code requirements for positioning the solar array on the roof should be reviewed, and you will need to allow space for emergency personnel to access the rooftop in case of a fire or other disaster. Some jurisdictions mandate a specific, clear distance between the array and the eave and valleys of adjacent roof sections, often three feet or more. Discuss with your installer about the impacts of installing a snow rail within that distance.



Author, Caroll Marston  
AceClamp®  
Sales & Engineering

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CLAMP®**

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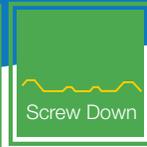
Easy terms • No contracts • No minimums



\*Based on typical contractor experiences. Photos shown are for representative purposes only. Actual product may vary. Design subject to change without notice. Additional panel profiles & torque specs: [aceclamp.com](http://aceclamp.com). Always use proper safety equipment when working on a roof. Do NOT use as a personal fall safety device.

# BRACKETS SNOW RETENTION

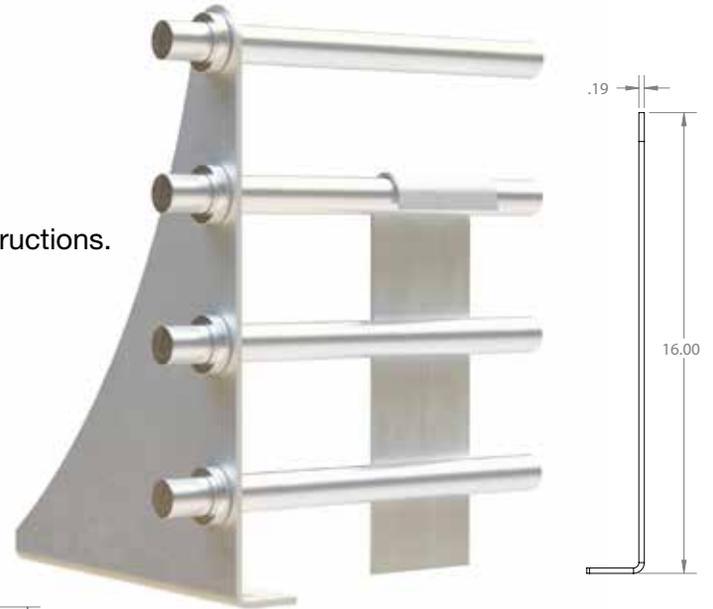
FOR USE WITH SOLAR PANELS



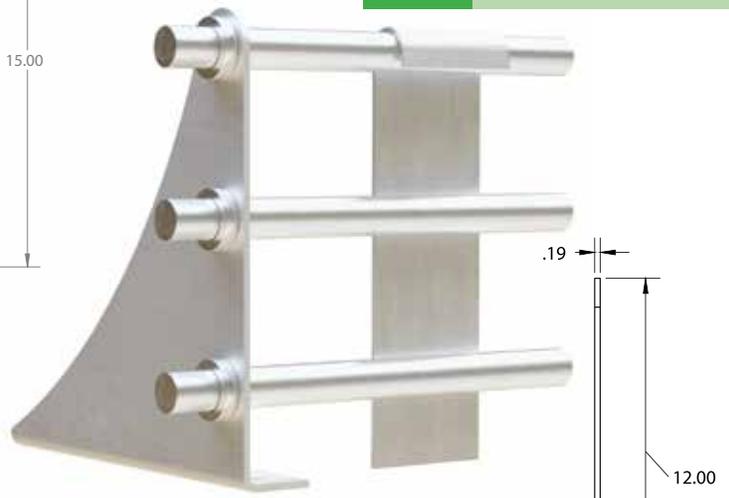
## Heavy Duty Bar Extended Snow Bracket

This system is designed for roof applications

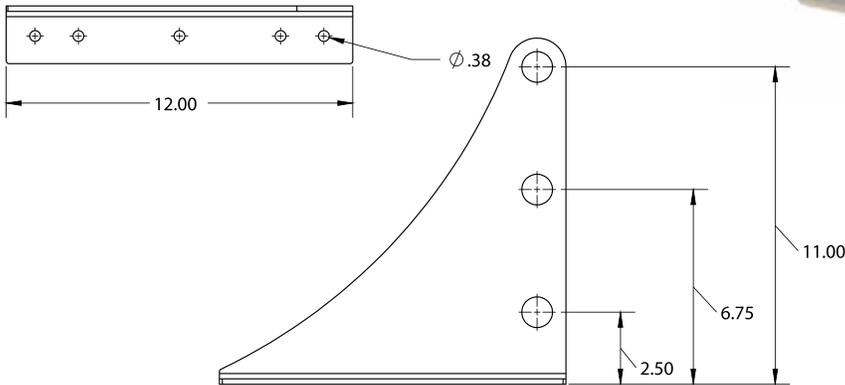
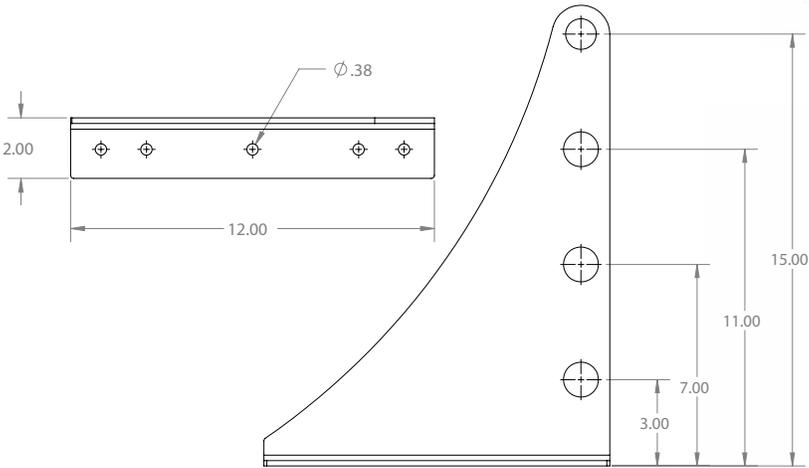
- Installation to be completed in accordance with the manufacturer's written specifications and installation instructions.
- Manufactured in Aluminum, Stainless Steel or Brass
- Contact AceClamp® for custom layouts and materials
- Slate applications require a base plate, which is sold separately. (see page 42)
- Compatible for solar arrays



Shown: Part# 5070-HD-4.5



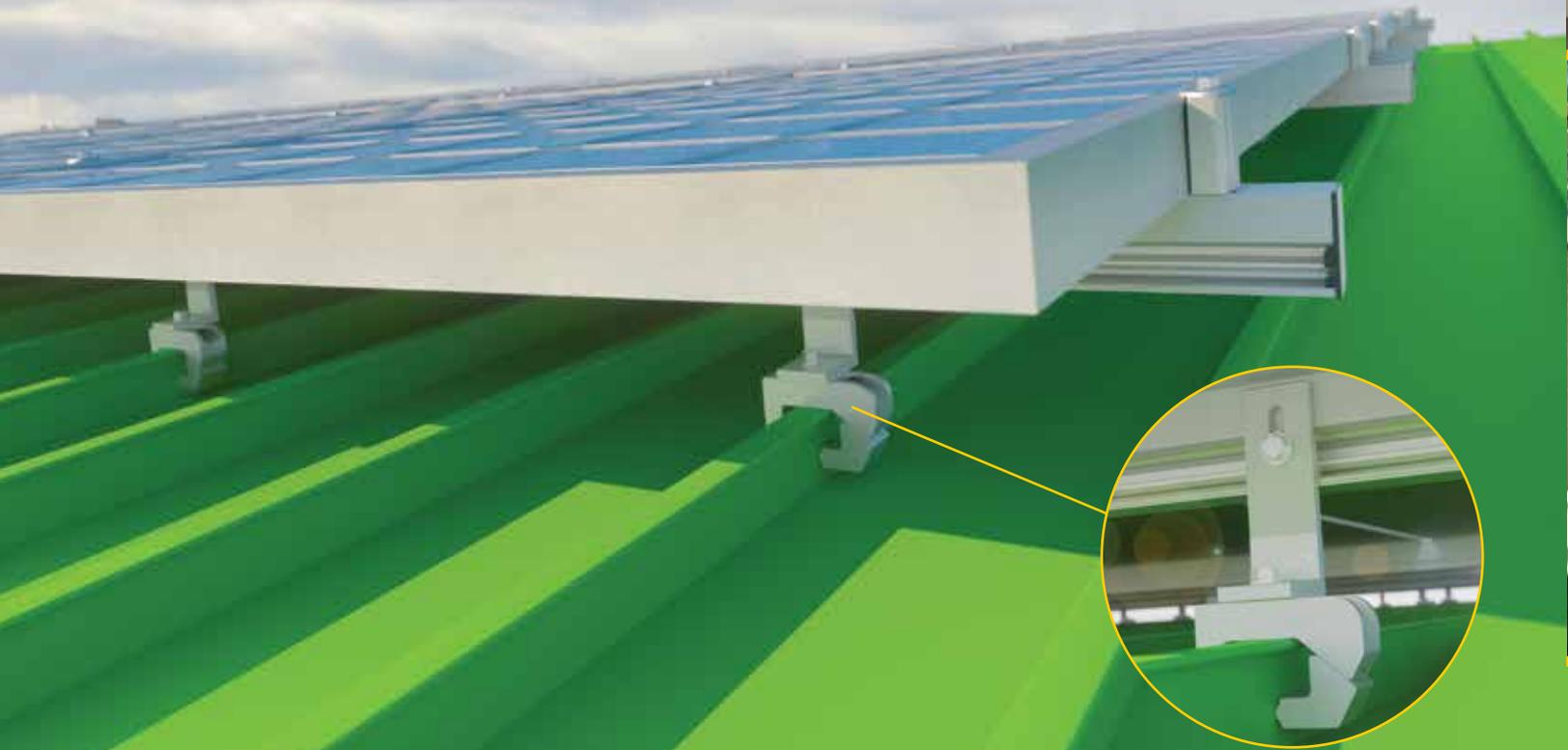
Shown: Part# 5070-HD-3.5





# THE SOLAR RACK THAT KEEPS EVERY JOB ON TRACK

FULLY ASSEMBLED COMPONENT GROUPS GET YOU ON AND OFF THE ROOF FASTER



Up to **CAT 5**

Call engineering for specific roof application.

*HVHZ compliant Solar Racking Works with ISR, SSMR, Membrane & Asphalt*

ADAPTIVE SOLAR RACKING WORKS WITH ANY OF OUR SSMR CLAMPS, CORRUGATED BRACKETS AND MEMBRANE PADS

**ACE CLAMP**  
Innovative Roofing Solutions™



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# CONCRETE COVER BOARD



# ASPHALT



# MEMBRANE



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**Solar Snap™ Mid Clamp**

(sized for your specific PV panel thickness)

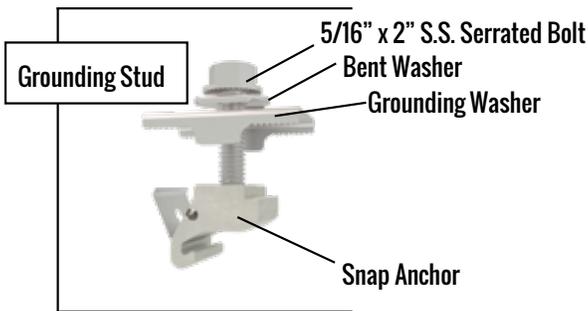


**Solar Snap™ End Clamp**

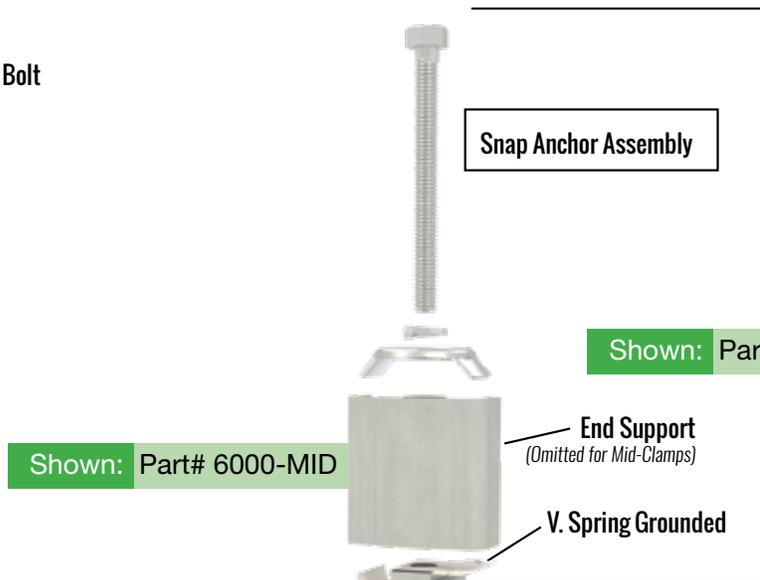
(sized for your specific PV panel thickness)



## PARTS IDENTIFICATION

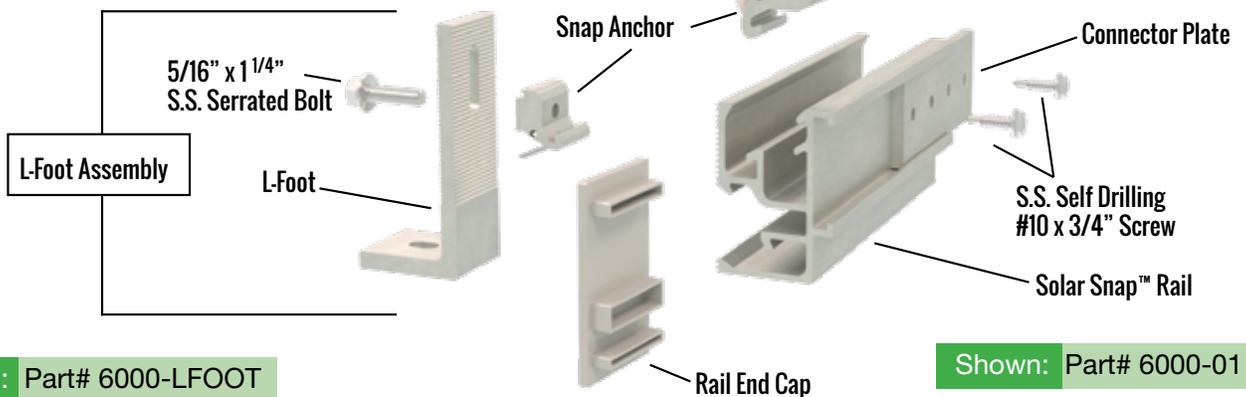


Shown: Part# 6000-GR



Shown: Part# 6000-END

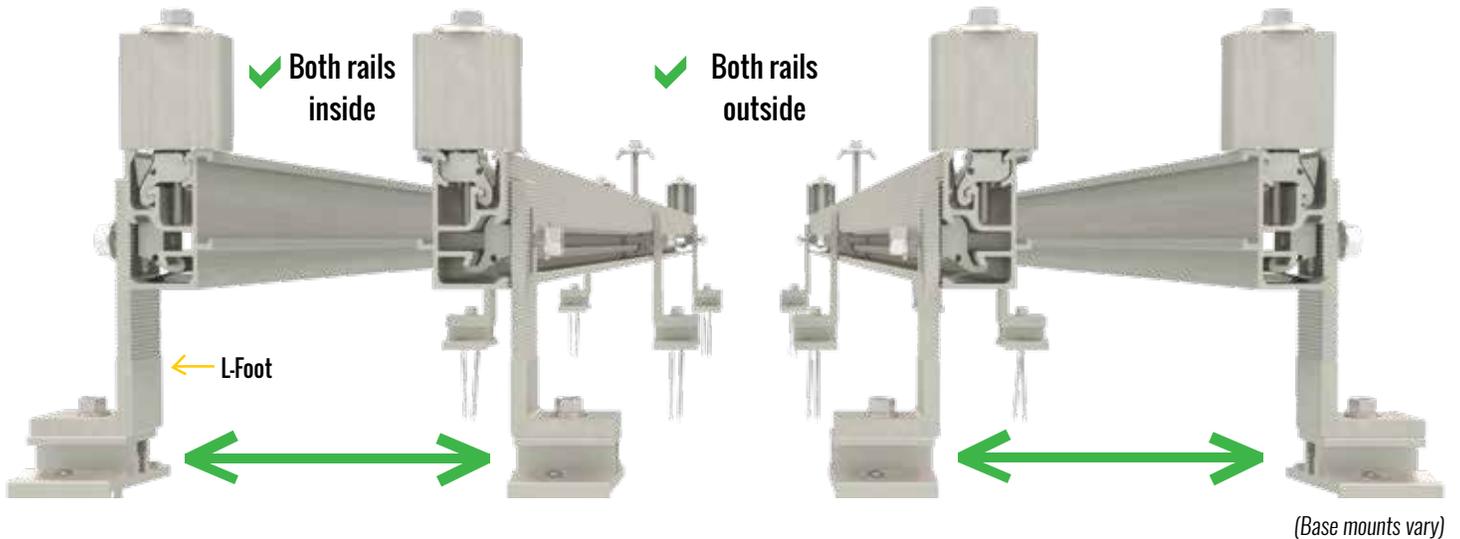
Shown: Part# 6000-MID



Shown: Part# 6000-LFOOT

Shown: Part# 6000-01 KIT

# INSTALLATION



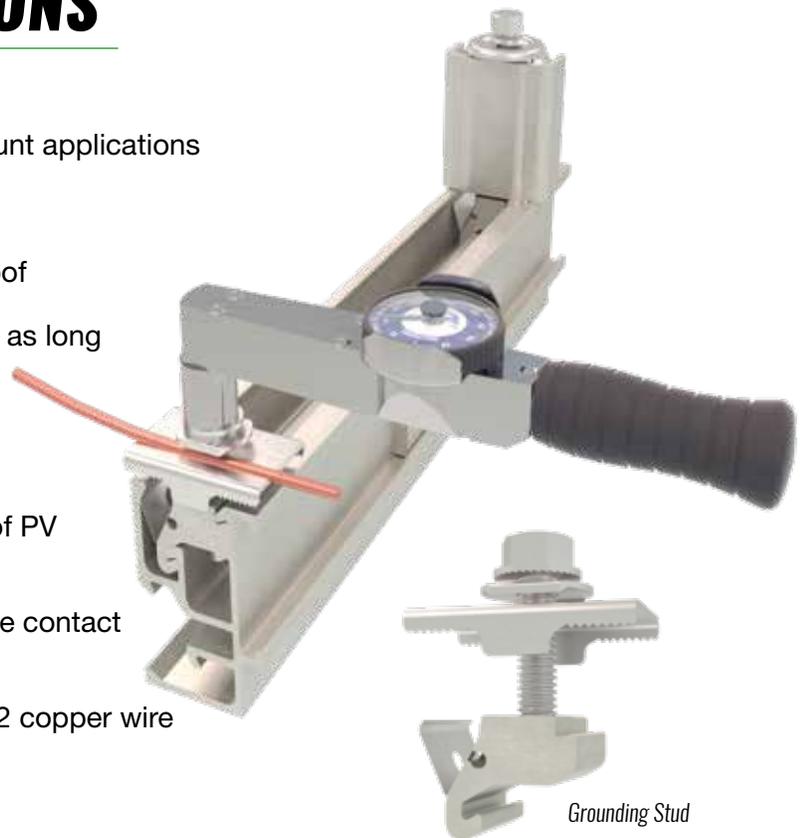
# GROUNDING & CONNECTIONS

## Connections

- Universal lock nut used for both top and side mount applications
- Easy access for torquing each lock nut
- Preassembled for ease and speed while on the roof
- Aluminum and stainless-steel components to last as long as the solar array

## Grounding

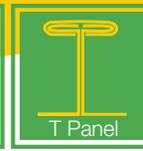
- Grounding lug assembly connects an entire row of PV panels to ground
- Unique patented solar connector provides positive contact on solar rail
- Cable lock washer accommodates AWG6-AWG12 copper wire
- Meets UL467 and UL2703 requirements





# RACK SOLAR MOUNTING

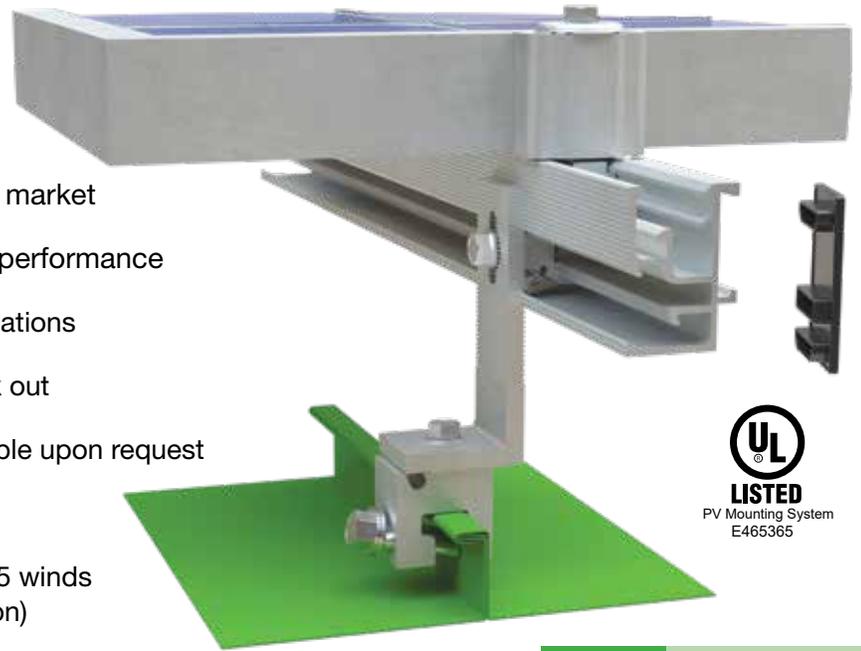
FOR SSMR



## Solar Snap™ Racking System

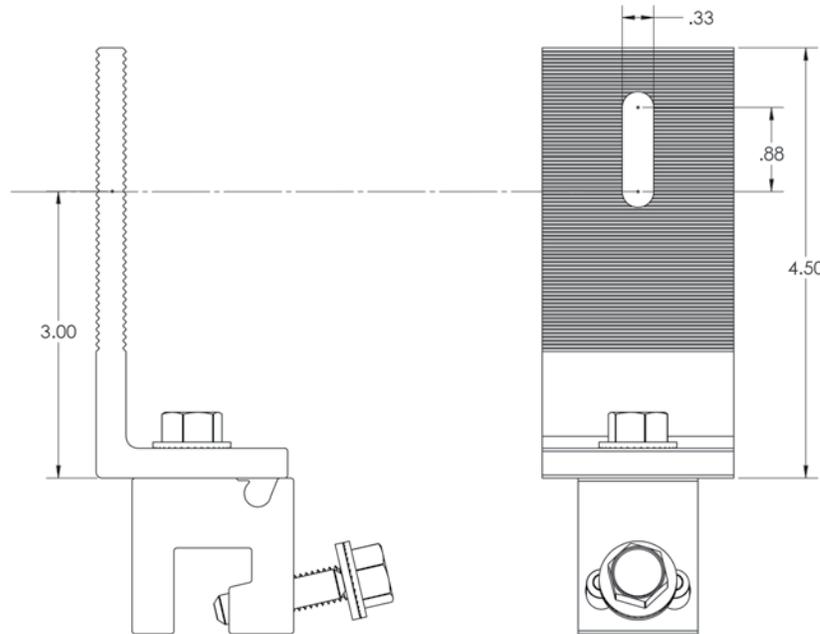
US Patent# 10,469,022

- Snap fit provides fast & easy installation
- One of the strongest racking systems on the market
- Rigorous 3rd party testing ensures quality & performance
- Adjustable height and width fits multiple applications
- Serrated hex nut locks tight and prevents back out
- Sold in 168" (14') lengths. Custom sizes available upon request
- Mounting brackets included!
- Tested to UL 2703 and to withstand up to Cat 5 winds (contact engineering for specific roof application)
- Anodizing upon request
- Assembly includes Snap Anchor, Rail, Connector Plate and End Cap. L-Foot assembly, Grounding Stud and Clamps sold separately.



Shown: Part# 6000-00

## Specifications





***AceClamp® Solar Snap™ works with all of our standing seam clamps!***



**A2®**  
pg 8



**A2®N™**  
pg 10



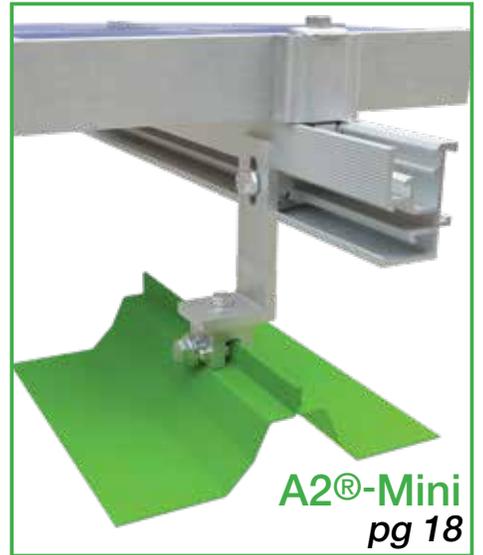
**A2®Nw™**  
pg 12



**ML™**  
pg 14



**A2®-T**  
pg 16



**A2®-Mini**  
pg 18



# HOLDS EVERYTHING UNDER THE SUN



## RACKLESS SOLAR PV KITS

- ADD OUR SOLAR KIT TO ANY OF OUR CLAMPS  
CONVENIENT TOP-FASTENER FOR A CUSTOM FIT
- NON-PENETRATING SLIDING-PIN DESIGN  
HELPS PRESERVE PANEL WARRANTY

*clamp sold separately*

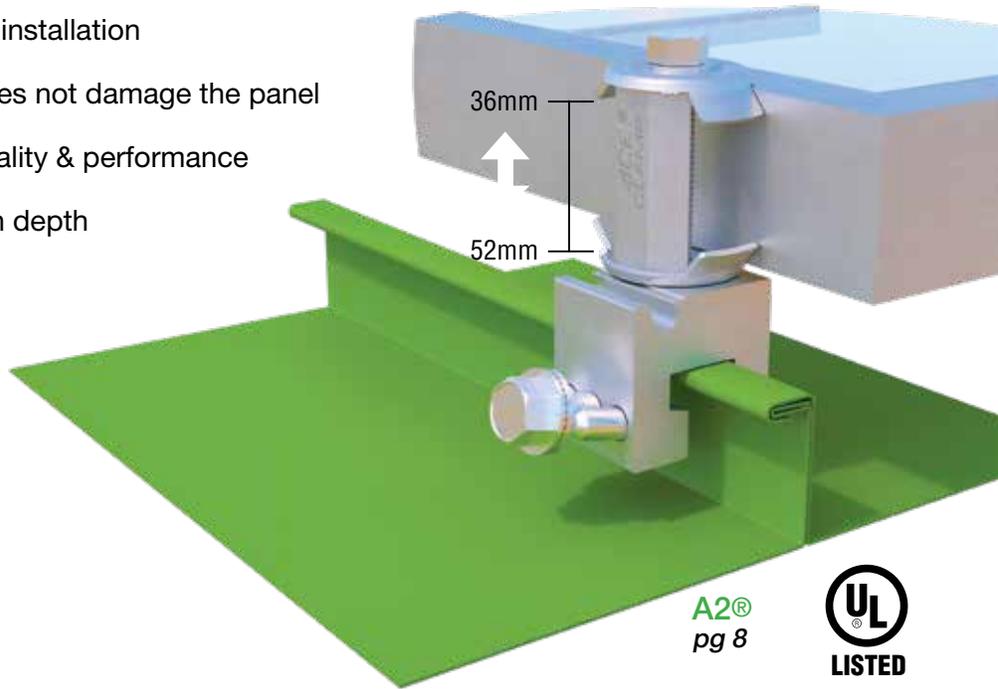




## Rackless Solar PV Kit

US Patent# 8,505,864

- Pre-assembled clamp allows for easy installation
- Non-penetrating sliding pin design does not damage the panel
- Rigorous 3rd party testing ensures quality & performance
- Compatible with arrays of 36-52mm in depth
- Custom End Supports for your panel
- Clamps sold separately

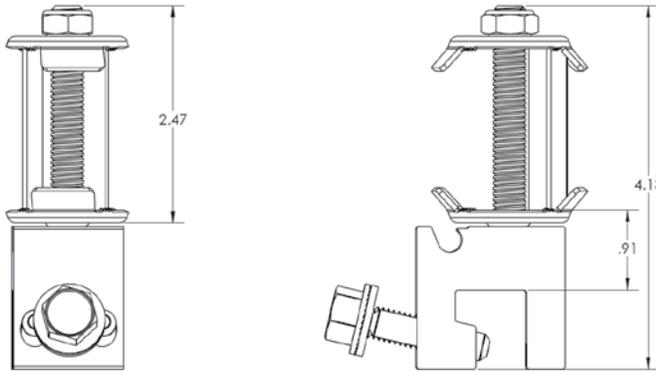


A2®  
pg 8



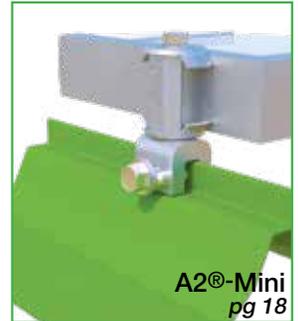
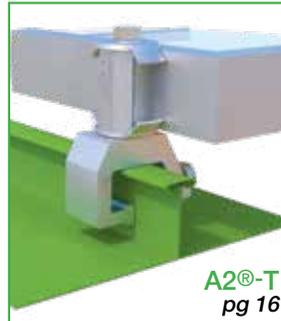
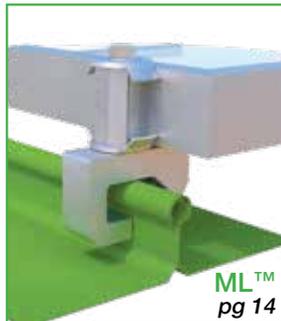
### Specifications

Shown: Part# 081201



SCAN FOR TORQUE SPECS OR REFER TO PAPERWORK WITH PRODUCT PACKAGING

### AceClamp Solar Kit works with all of our standing seam clamps!



**ACE  
CLAMP®**  
Innovative Roofing Solutions™



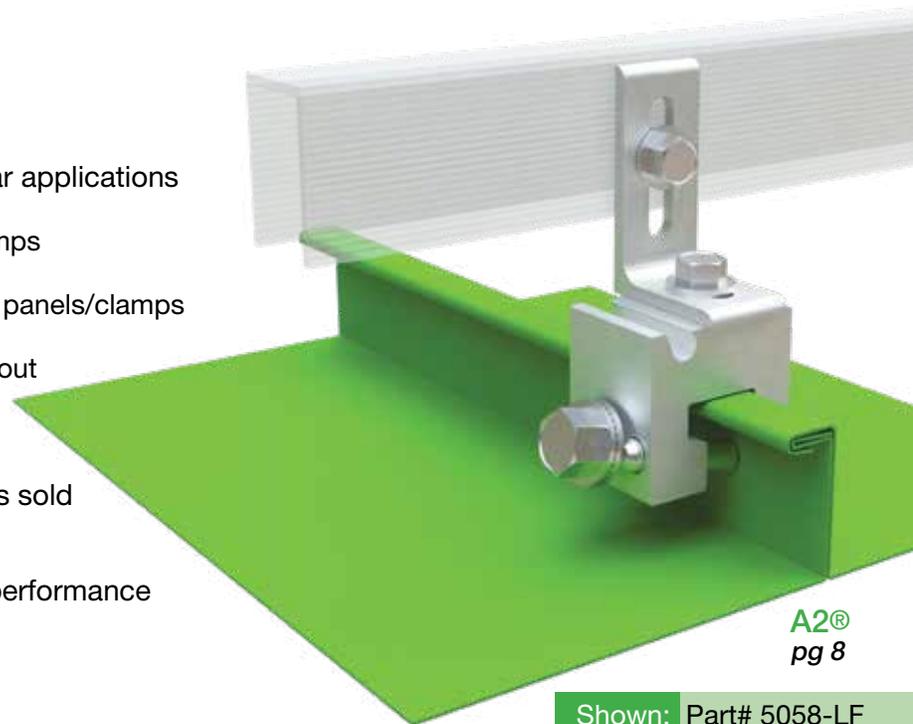
Free Samples and Ordering:  
860-351-0686 / [www.AceClamp.com](http://www.AceClamp.com)

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### Solar L-Foot Bracket

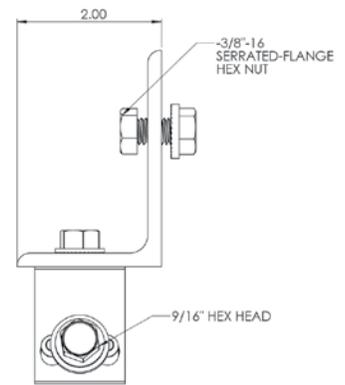
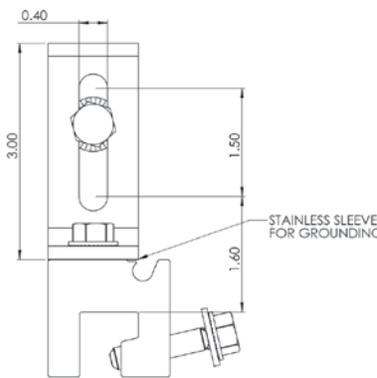
- Universal L-Foot is compatible with most solar applications
- Provides unobstructed access to mounting clamps
- Adjustable height & width adapts to a variety of panels/clamps
- Serrated hex nut locks tight and prevents back out
- Common 3/8 bolt, as used on our AceClamp®
- Assembly includes L-Foot and Bolts. Clamp is sold separately.
- Rigorous 3rd party testing ensures quality & performance



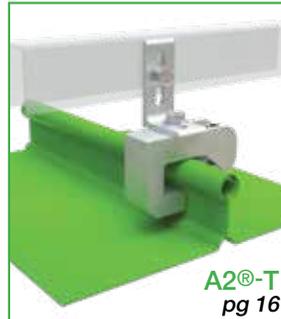
A2®  
pg 8

Shown: Part# 5058-LF

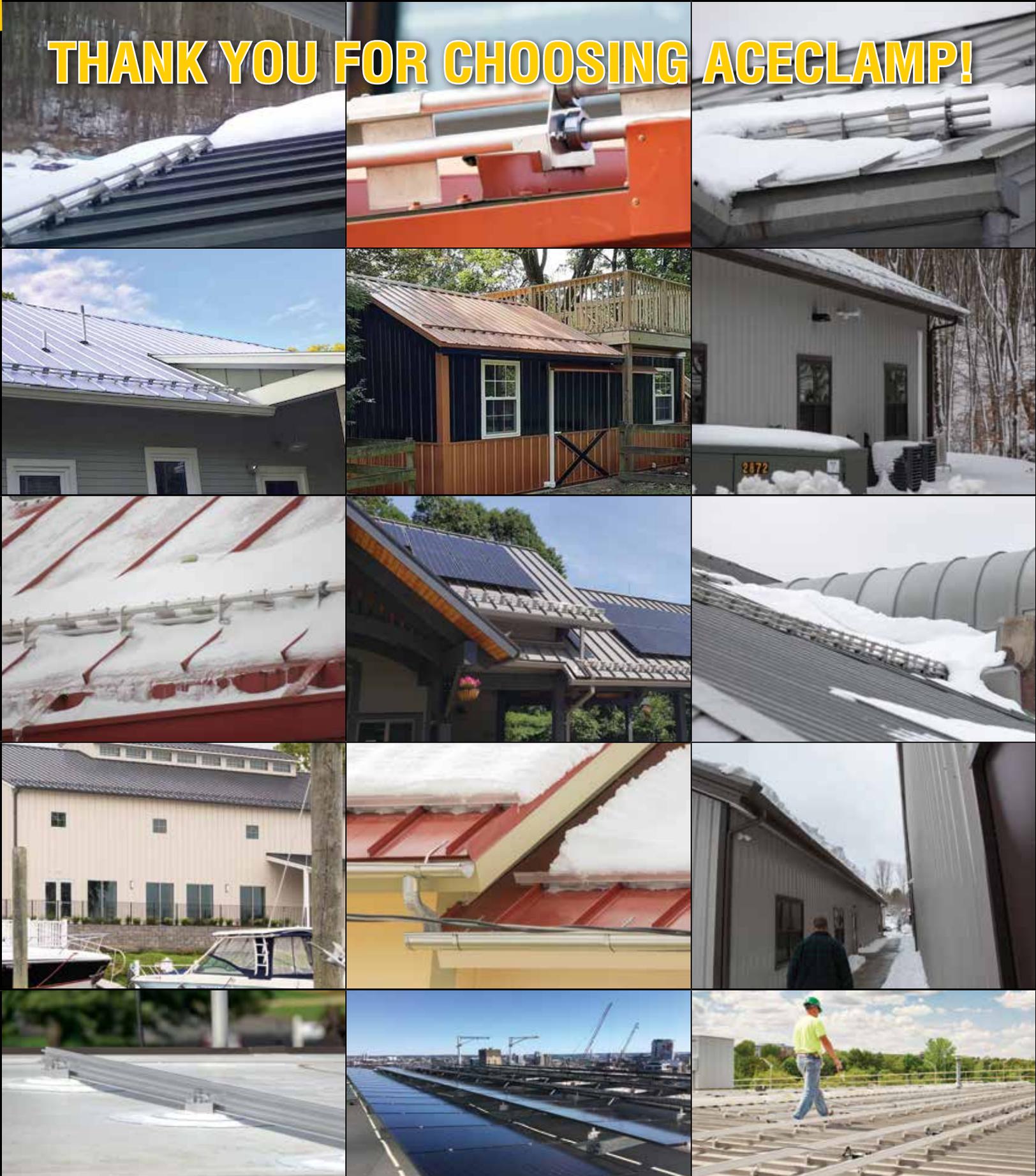
### Specifications



**AceClamp® Solar L-Foot works with all of our standing seam clamps and most racking systems!**



# THANK YOU FOR CHOOSING ACECLAMP!



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CLAMP**<sup>®</sup>  
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# **ACE** *Innovative, Cost-Saving* **CLAMP**<sup>®</sup> **SNOW RETENTION** **& SOLAR SOLUTIONS**

**SSMR • MEMBRANE • SHINGLE • SLATE**



**FLIP FOR SNOW RETENTION**

