



Rocky Mountain Snow Guards Inc

ROCKY MOUNTAIN SNOW GUARDS
4231 S NATCHES CT., UNIT C
ENGLEWOOD, CO 80110
PHONE: (720) 379-7756
FAX: (720) 387-8361
www.rockymountainsnowguards.com

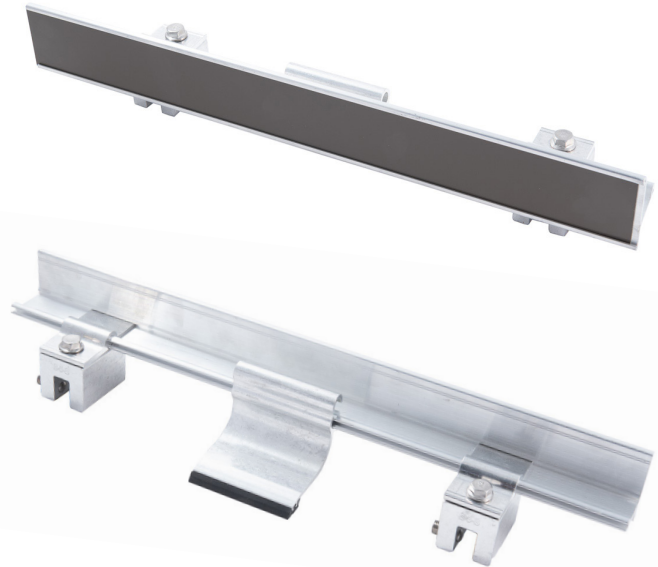
S-5® ColorGard SNOW BAR SYSTEM

AVAILABLE MATERIALS:

- ALUMINUM
- POWDER COATED ALUMINUM
- BRASS (S-5® B-CLAMP ONLY)

INFORMATION:

- 7'8" Punched or Unpunched bar
- Clamps to fit all seam profiles
- Specific load ratings for all panels
- Excellent Choice for:
 - Standing seam metal panel roofs
 - Through-fastened metal panels (Versabacket)
 - Corrugated metal panels (Corrubracket)



EXAMPLES:



The right way to attach almost anything to metal roofs!

S-5![®]

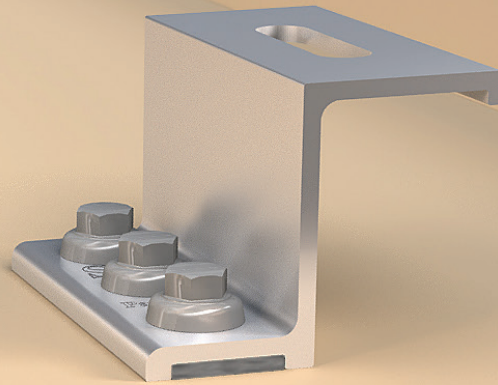
The Right Way![®]

VersaBracket[™]

VersaBracket[™] can be used to mount almost anything to an exposed-fastened roof system and is compatible with almost any trapezoidal exposed-fastened profile. No messy sealants to apply! No chance for leaks! The VersaBracket comes with factory-applied butyl sealant already in the base, and the S-5![®] patented reservoir conceals the sealant from UV exposure, preventing drying and cracks.

Installation is simple! VersaBracket is mounted in the flat of the panel, directly into the supporting structure of the roof, i.e. wood decking, wood or steel purlins or trusses. No surface preparation is necessary; simply wipe away excess oil and debris, peel the release paper from the base, align, and apply. Secure through the pre-punched holes using the appropriate screws for the supporting structure.

VersaBracket is so strong, it will even support heavy-duty applications like snow retention. For exposed-fastened trapezoidal profiles, the VersaBracket is the perfect match for our ColorGard[®] snow retention systems (for corrugated roofs use CorruBracket[™]). VersaBracket is extremely economical and facilitates quick and easy installation.



S-5![®] VersaBracket[™] is the right way to attach almost anything to exposed-fastened roof profiles, including PV through rail methods.

VersaBracket[™]



888-825-3432 | www.S-5.com |



VersaBracket™ can be used for almost any attachment need, including **S-5!® ColorGard®**, on all types of exposed-fastened metal roofing. No messy sealants to apply. The factory-applied butyl sealant waterproofs and makes installation a snap!

To accommodate various rib heights, **VersaBracket™** comes in two heights—the 2.65" VersaBracket-67™ and the 1.86" VersaBracket-47™. The VersaBracket-67 mounting face has no holes or slots; thus, ancillary items are typically secured using self-tapping screws. The VersaBracket-47 comes with a 1" slot on top as the standard part. Other hole and slot configurations available with minimum purchase requirements (contact your distributor for available configurations). Each VersaBracket comes with factory-applied butyl sealant in the base. A structural aluminum attachment bracket, VersaBracket is compatible with most common metal roofing materials. For design assistance, ask your distributor, or use our web-based calculator at www.S-5.com for job-specific system engineering and design of your next snow retention project. Also, please visit our website for more information including CAD details, metallurgical compatibilities, and specifications.

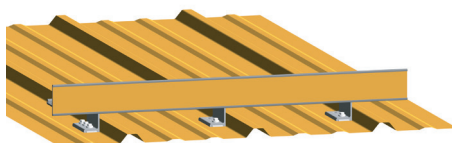
The VersaBracket has been tested for load-to-failure results on wood decking, metal, and wood purlins. The independent lab test data found at www.S-5.com can be used for load-critical designs and applications. S-5!® holding strength is unmatched in the industry.

Example Profile

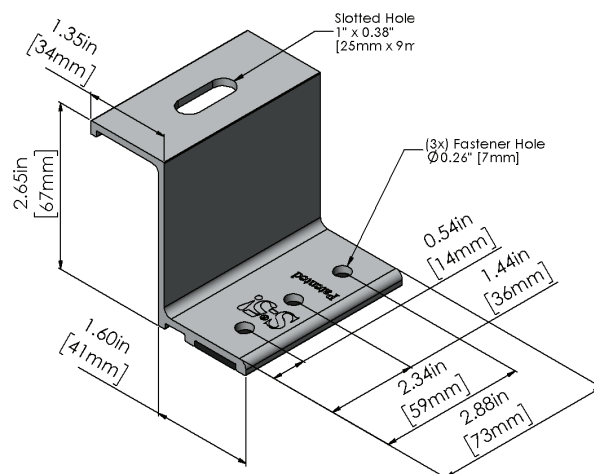


Example Applications

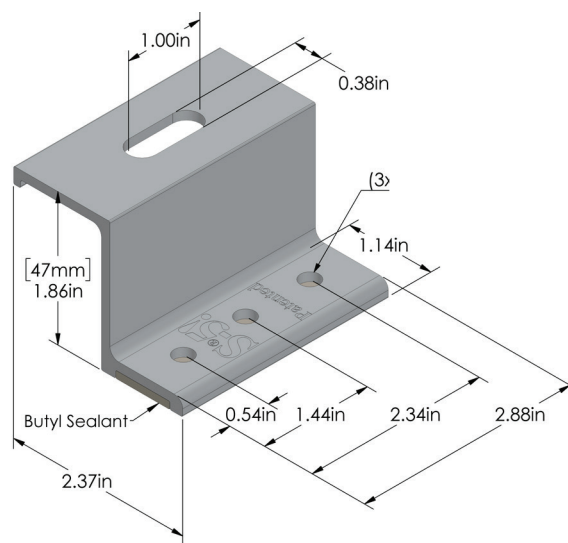
ColorGard



VersaBracket-67™



VersaBracket-47™



3 holes are provided for versatility. Some installations require only 2 fasteners. See the load table on the S-5! website and the installation instructions for more details.

Due to varied applications, mounting hardware is not furnished with part.

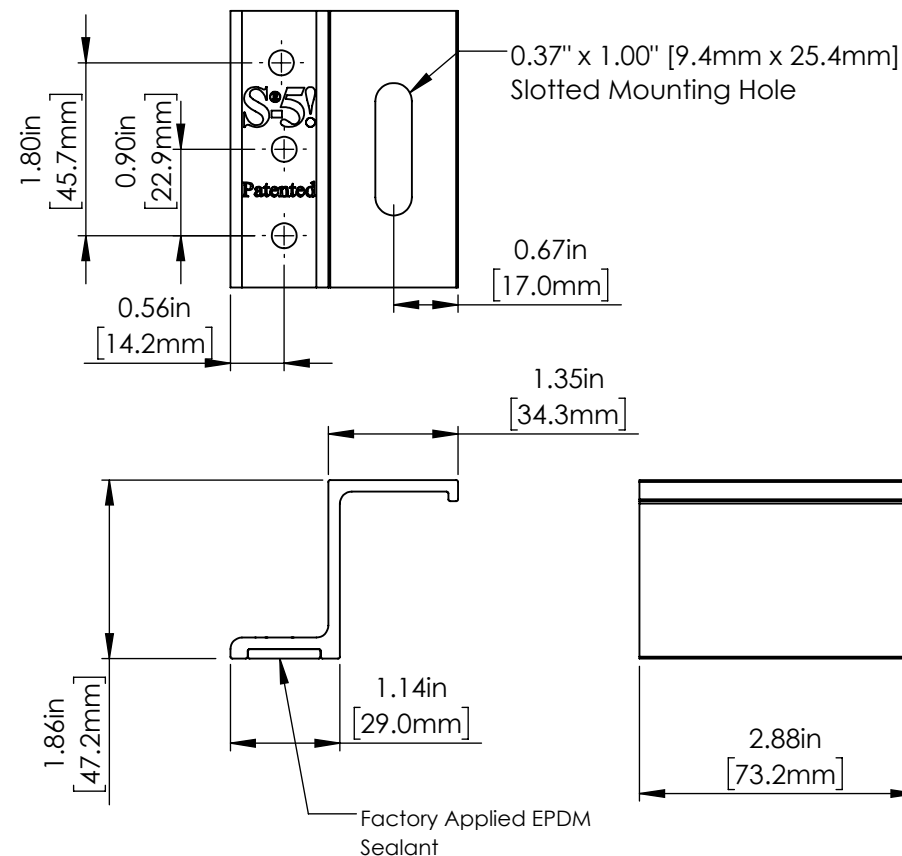
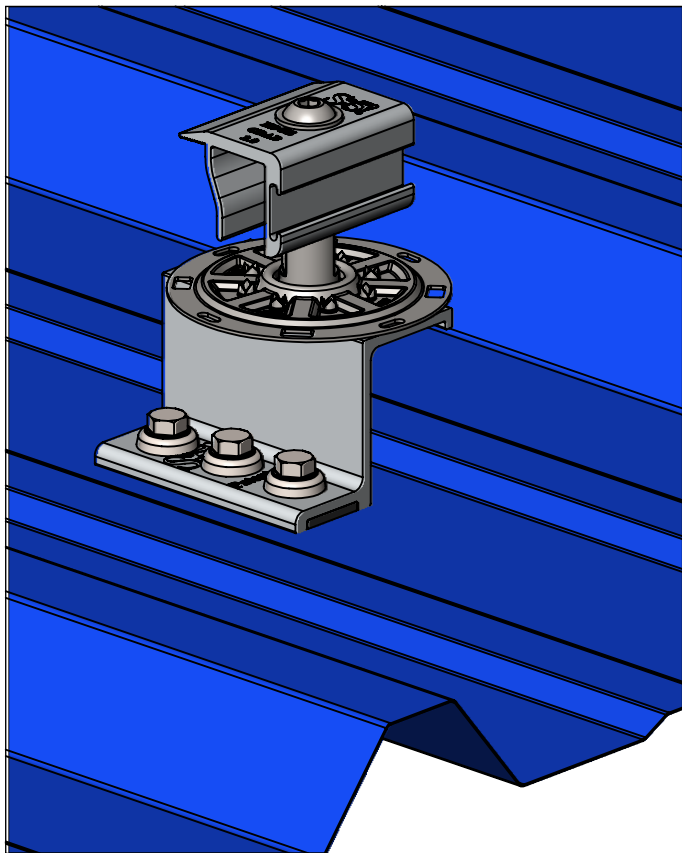
Please note: All measurements are rounded to the second decimal place.

S-5!® Warning! Please use this product responsibly!

Products are protected by multiple U.S. and foreign patents. For published data regarding holding strength, bolt torque, patents and trademarks visit the S-5! website at www.S-5.com.

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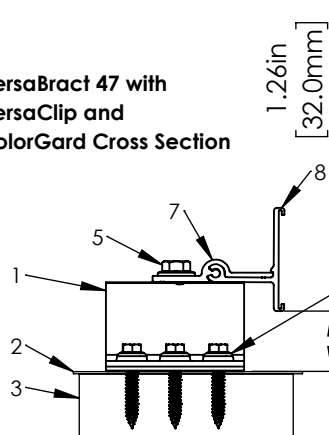
Distributed by



General Notes:

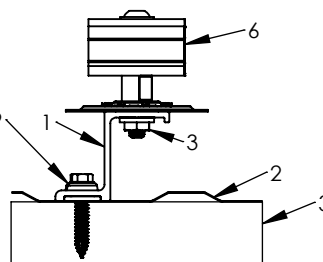
1. VersaBracket 47
2. Example Roof
3. Example Substrate
4. M8 Hex Flange Nut
5. M8 Hex Flange Bolt
6. PV Kit 2.0
7. VersaClip
8. ColorGard Cross Section
9. Fastener

**VersaBracket 47 with
VersaClip and
ColorGard Cross Section**




Snow

**VersaBracket 47 with
PV Kit 2.0**

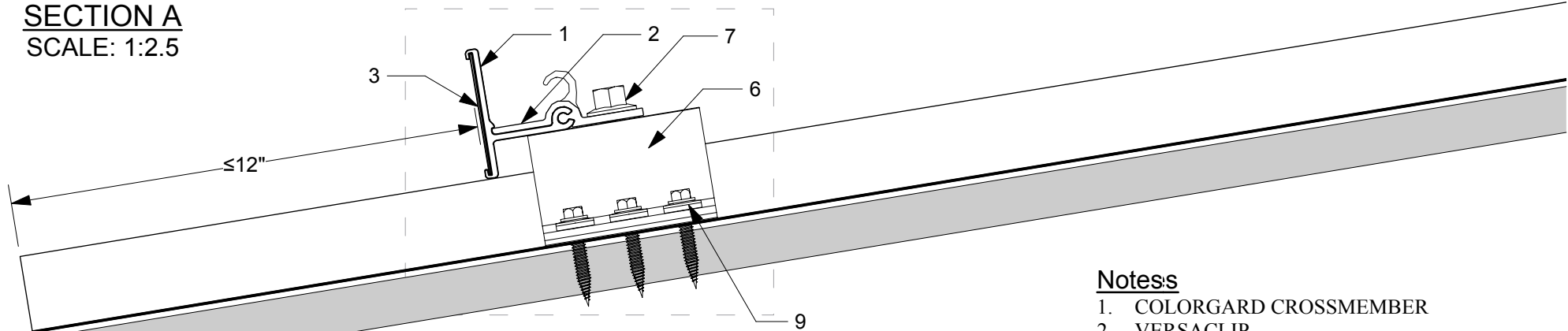


Solar

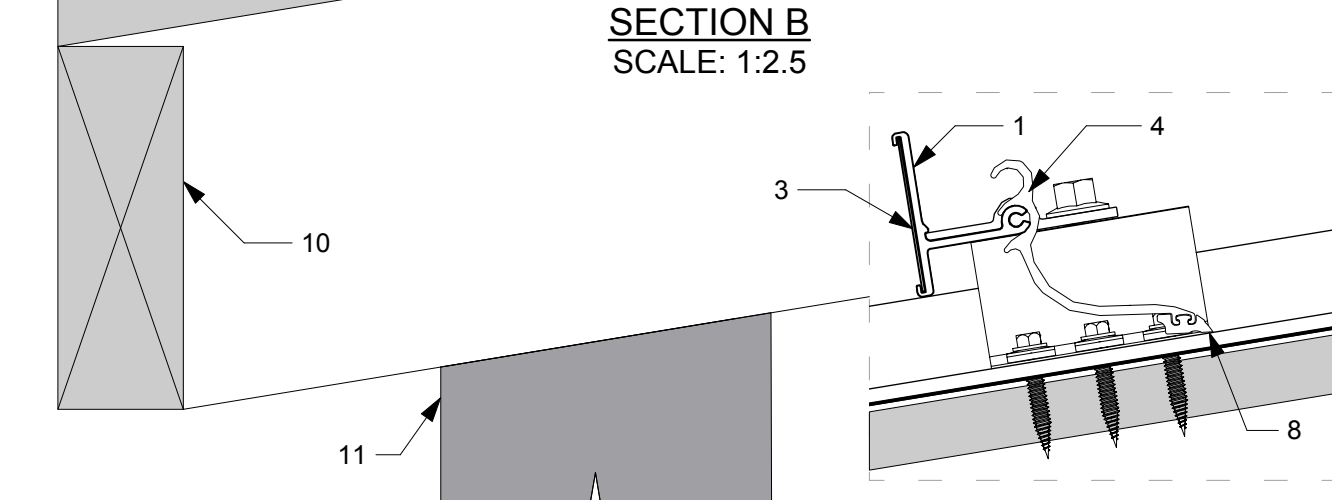
**FOR STANDING SEAM SPECIFIC MECHANICAL LOAD TEST
INFORMATION AND CLAMP INSTALLATION INFORMATION
PLEASE VISIT: WWW.S-5.COM**

MATERIAL: 6000 Series AL	 <p>METAL ROOF INNOVATIONS, LTD. 8655 TABLE BUTTE RD COLORADO SPRINGS, CO 80908 719-495-0518 719-495-0045(FAX)</p>		
EST BRACKET WEIGHT 0.16 lbs			
SUPPLIED HARDWARE: NONE	TITLE VersaBracket 47 [CCD Drawing]		
SCALE: 1:2	DRAWING NO. VB47-29-B-0-A	DRAWN BY JW	DATE 11/18/2019
<p>S-5!® PRODUCTS ARE PROTECTED BY MULTIPLE U.S. PATENTS INCLUDING 5,228,248, 5,983,588 AND 6,164,033 (OTHERS ISSUED AND PENDING). EUROPEAN PATENTS ARE ALSO APPLIED FOR AND PENDING UNDER THE PATENT COOPERATION TREATY WITH DIVISIONAL FILING RIGHTS RETAINED. METAL ROOF INNOVATIONS, LTD. (LICENSOR OF S-5!® TECHNOLOGY) AGGRESSIVELY PROSECUTES PATENT INFRINGEMENT.</p>			

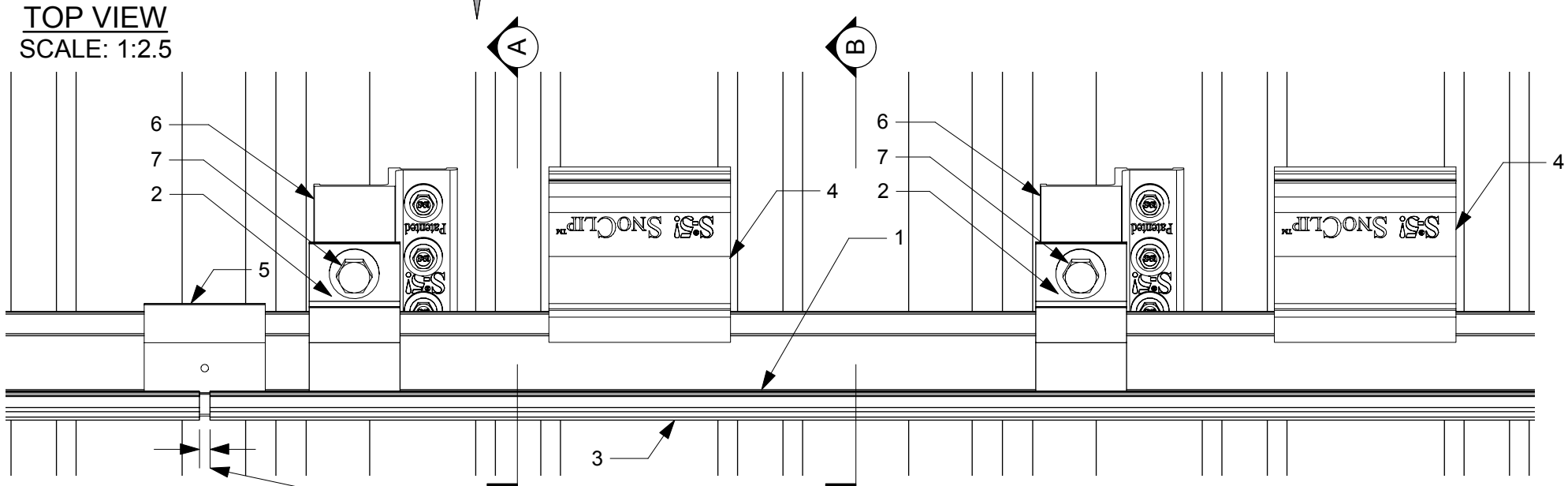
SECTION A
SCALE: 1:2.5



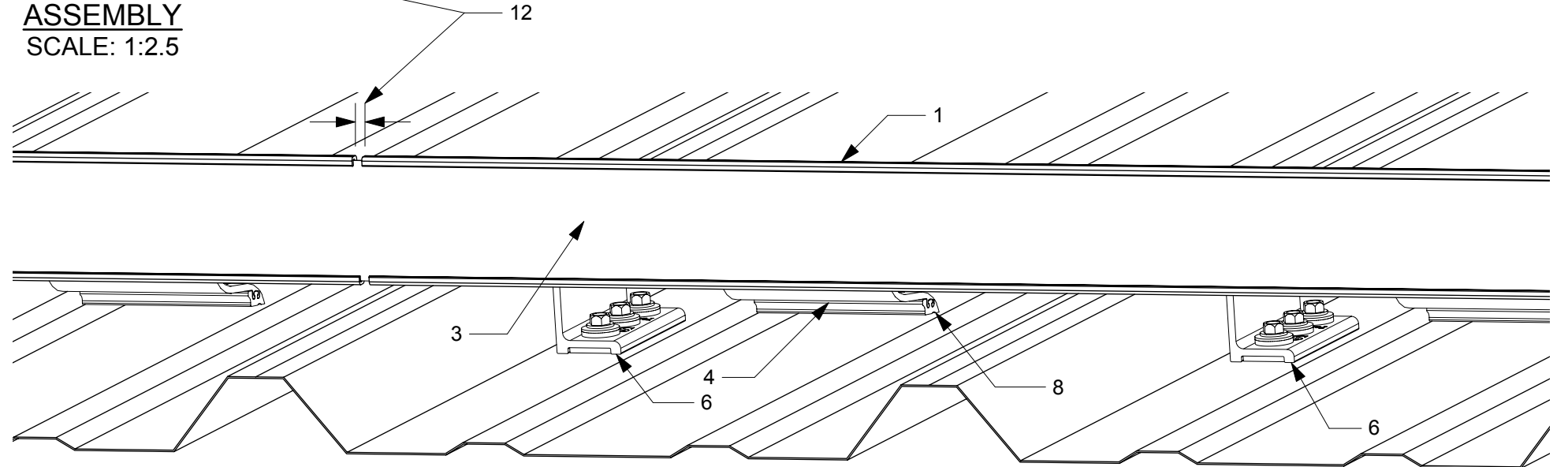
SECTION B
SCALE: 1:2.5



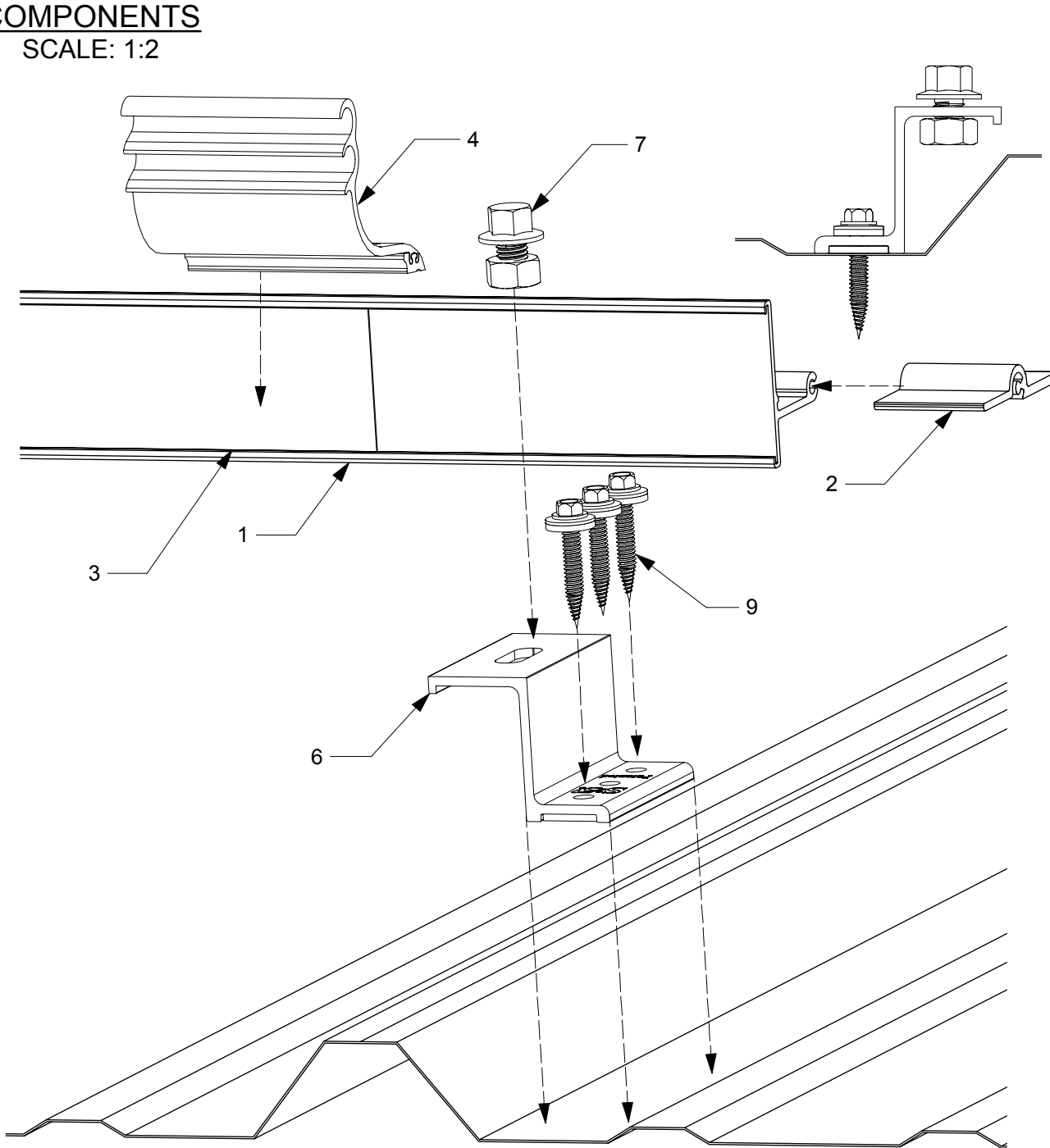
TOP VIEW
SCALE: 1:2.5



ASSEMBLY
SCALE: 1:2.5



COMPONENTS
SCALE: 1:2



Notes

- 1. COLORGARD CROSSMEMBER
- 2. VERSACLIP
- 3. 2" PREFINISHED COLORSTRIP TO MATCH ROOF (BY OTHERS)
- 4. SNOCLIP II BETWEEN ROOF RIBS
- 5. COLORGARD SPLICE
- 6. S-5-VersaBracket
- 7. M8-1.25 X 0.62" HEX FLANGE BOLT & M8-1.25 HEX FLANGE NUT
- 8. RUBBER FOOT TOE
- 9. #14 x 1.5" TYPE 17 w/washer 3/8" HWH - WOOD DECK
#14 x 1.5" TEK 3 w/washer 3/8" HWH - STEEL DECK
- 10. EAVE STRUCTURE
- 11. SIDING MATERIAL
- 12. SPACE FOR THERMAL EXPANSION



DRAWING TITLE:
**VersaBracket 47 DECK
ColorGard Assembly**

DRAWING NUMBER:
S-5-VB47CG 100

ISSUE DATE:
September 18, 2013

CLAMP:
S-5-VB 47

CLAMP WEBPAGE:
http://www.s-5.com/clamps/index_71.cfm

CROSS MEMBER:
Unpunched ColorGard

CROSS MEMBER WEBPAGE:
http://www.s-5.com/snow/index_1146.cfm

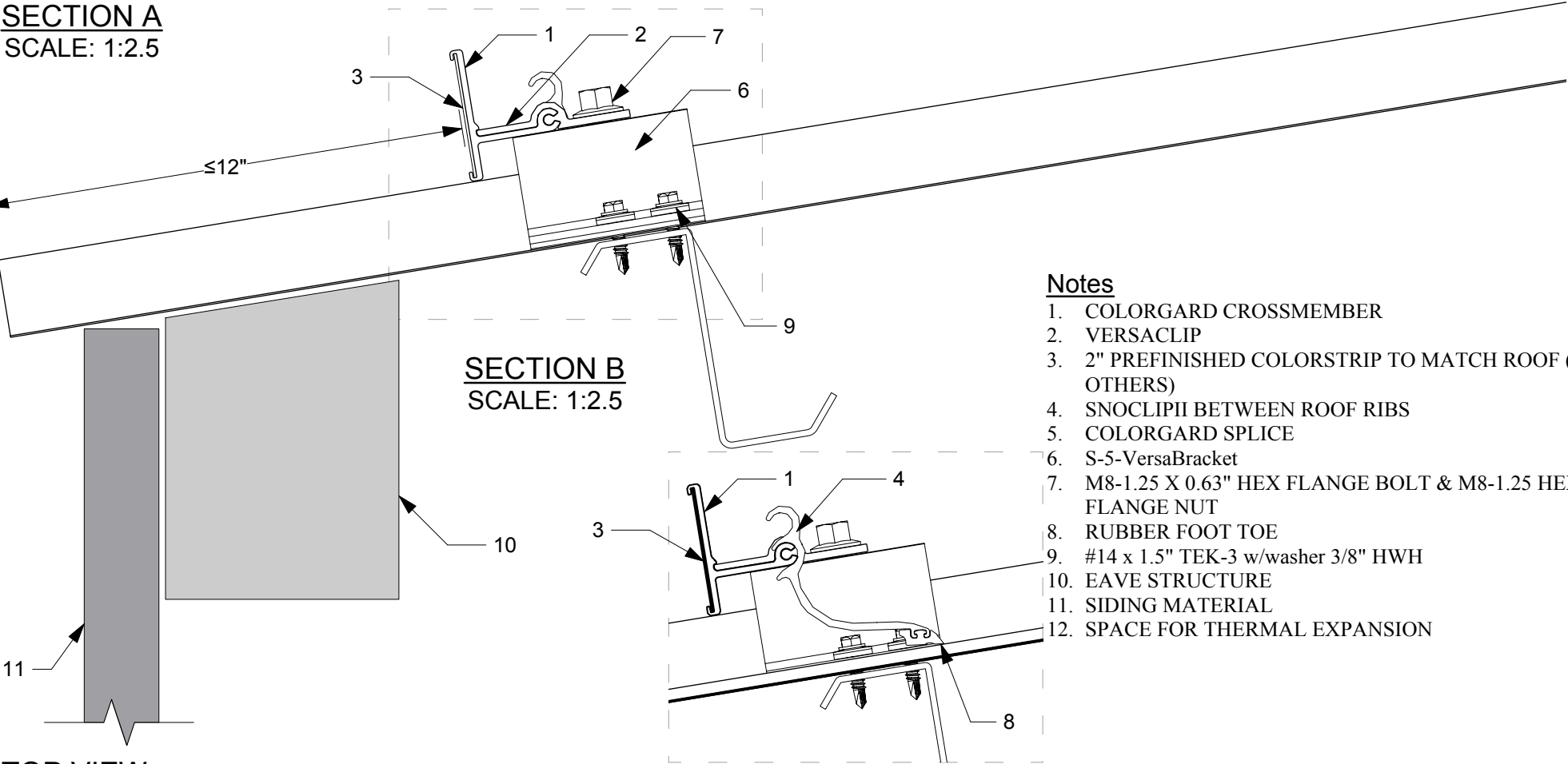
CALCULATOR:
Calculator

CALCULATOR WEBPAGE:
<http://www.s-5.com/calculator/index.cfm>

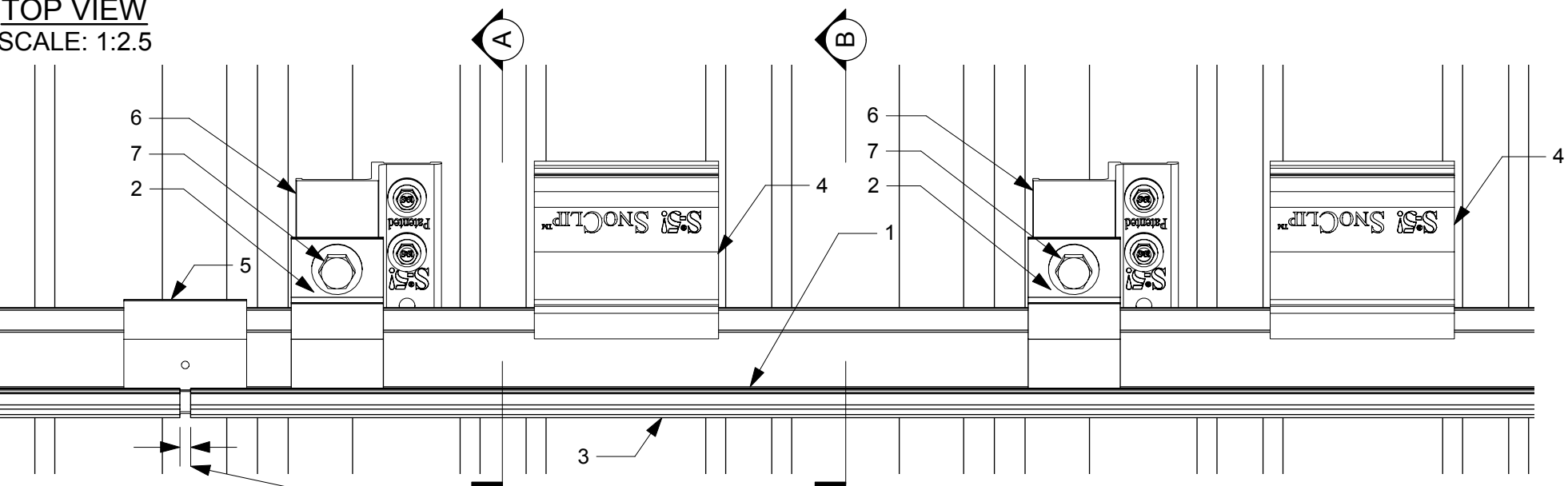
METAL ROOF INNOVATIONS, LTD.
8655 TABLE BUTTE RD
COLORADO SPRINGS, CO 80908
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888-825-3432
www.S-5.com

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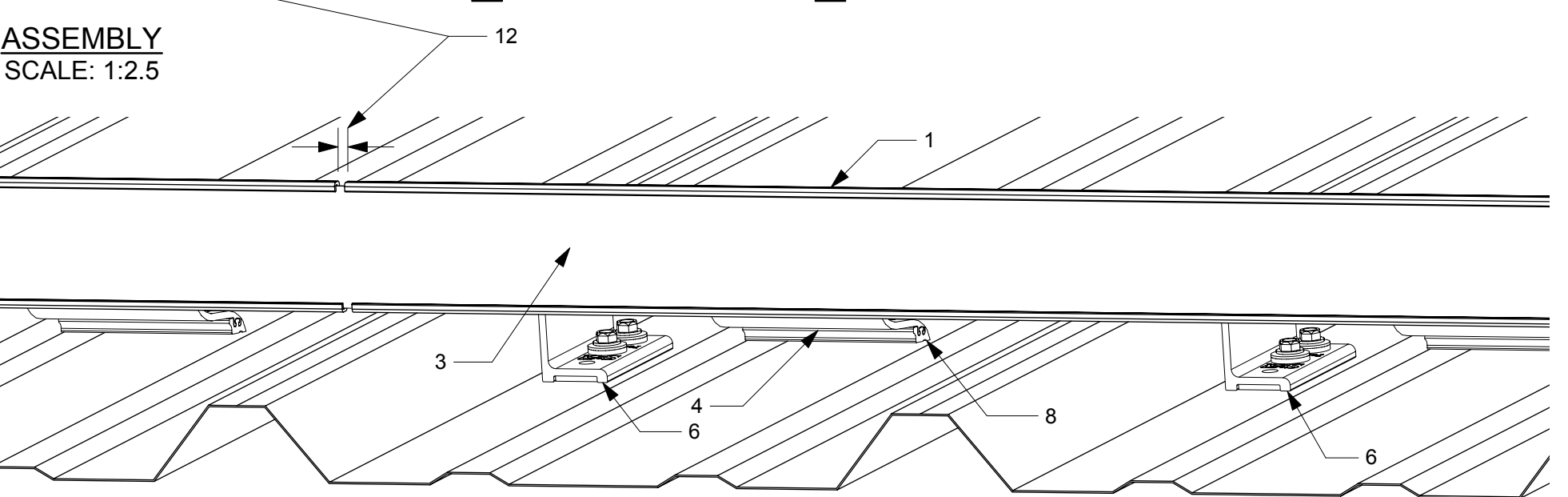
SECTION A
SCALE: 1:2.5



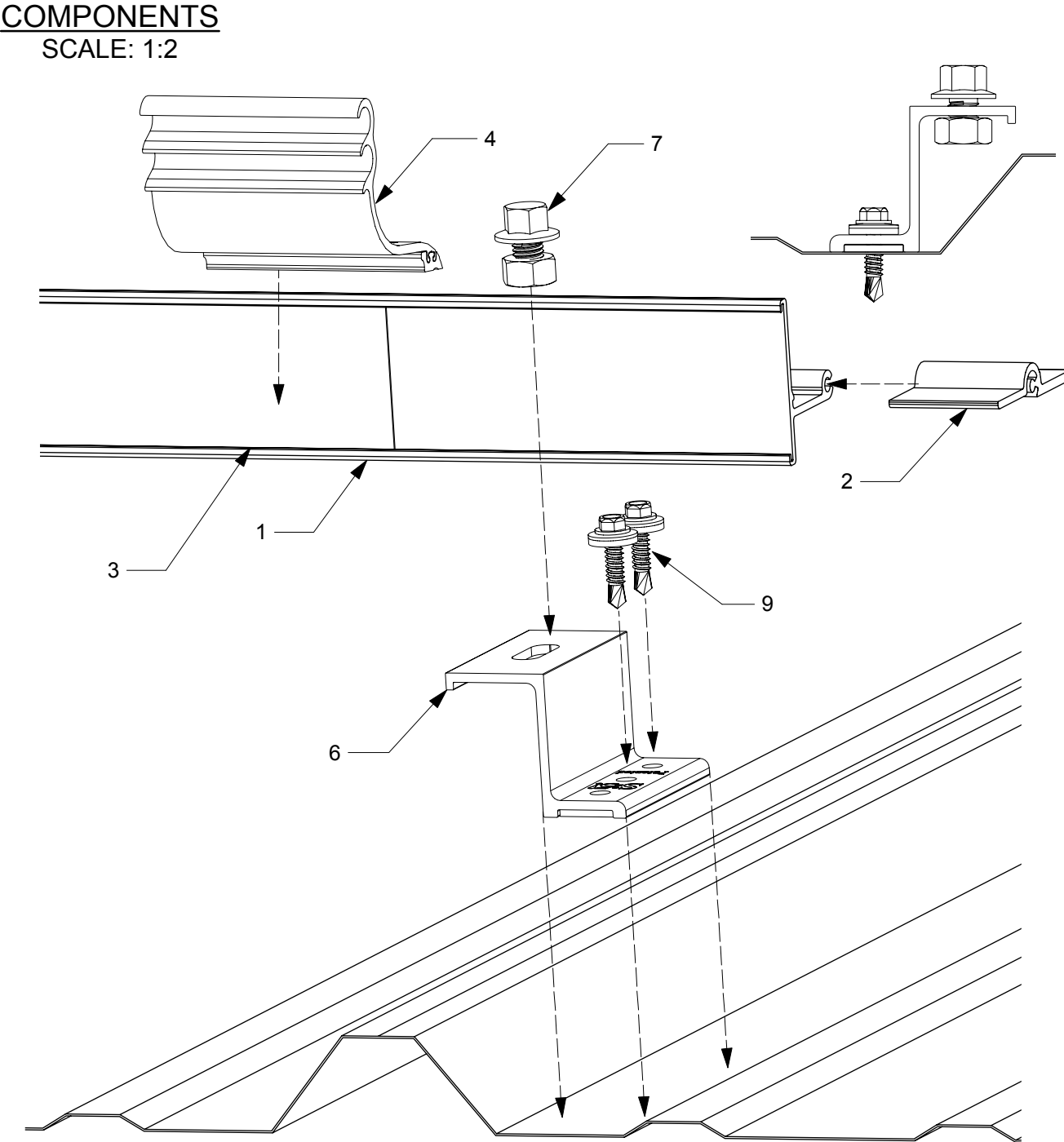
TOP VIEW
SCALE: 1:2.5



ASSEMBLY
SCALE: 1:2.5



COMPONENTS
SCALE: 1:2



DRAWING TITLE:
**VersaBracket 47 PURLIN
ColorGard Assembly**

DRAWING NUMBER:
S-5-VB47CG 200

ISSUE DATE:
September 18, 2013

CLAMP: S-5-VB 47	CLAMP WEBPAGE: http://www.s-5.com/clamps/index_71.cfm	METAL ROOF INNOVATIONS, LTD. 8655 TABLE BUTTE RD COLORADO SPRINGS, CO 80908 719-495-0518 888-825-3432 www.S-5.com
CROSS MEMBER: Unpunched ColorGard	CROSS MEMBER WEBPAGE: http://www.s-5.com/snow/index_1146.cfm	
CALCULATOR: Calculator	CALCULATOR WEBPAGE: http://www.s-5.com/calculator/index.cfm	

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Rocky Mountain
Snow Guards Inc



Stocked Color Strip Inserts for Colorgard Snow Fence Systems

Black

Charcoal Gray

Dark Bronze

Medium Bronze

Evergreen

ACTUAL COLORS MAY VARY

**We strongly recommend obtaining a
sample prior to purchasing.**

(877) 414-7606

www.RockyMountainSnowGuards.com

S-5!®

The Right Way!

The right way to attach almost anything to metal roofs!

Installation Instructions

S-5!® Warning! Please use these products responsibly! Visit our website or contact your S-5! distributor for available load test results. The user and/or installer of these parts is responsible for all necessary engineering and design to ensure the VersaBracket™ has been properly spaced and configured.

Notice to S-5! users: Due to the many variables involved with specific panel products, climates, snow melt phenomena, and job particulars, the manufacturer cannot and does not express any opinions as to the suitability of any S-5! assembly for any specific application and assumes no liability with respect thereto. S-5! products are tested for ultimate holding strength on various profile types and materials. This information is available from the S-5! website: www.S-5.com. This document is an installation guide only and the photographs and drawings herein are for the purpose of illustrating installation, tools and techniques, not system designs. Information contained within is intended to apply to the document as a whole.

The VersaBracket is made for trapezoidal exposed-fastened profiles.

Tools Needed

- Electric Screw Gun*
- Rag
- String Line

***For time saving tool recommendations contact S-5!**

VersaBracket should be placed in the flat of the panel, between the ribs, and must be mounted directly over and into the supporting structure of the roof, i.e. wood decking, wood or steel purlins or trusses, NEVER into the metal roofing material alone.

To ensure brackets are installed in a straight line when desired, install a single VersaBracket on each end of the roof at a measured, consistent distance from the bottom edge of the roof. Use a string line between the two brackets. Mount the remaining VersaBracket along the string line, directly into the supporting structure of the roof.

Use Proper Hardware

Only use appropriate screws, and hardware when attaching this product into the supporting structure.



Not Provided

Metal to Metal Screw Specifications: 1/4-14 Self Drilling Screw - 1-1/2" to 2-1/2" Length - 3/8" Hex Washer Head - Zinc/Aluminum Cap



Not Provided

Metal to Wood Screw Specifications: 1/4-14 Type 17-AB Milled Point - 1-1/2" to 2-1/2" Length - 3/8" Hex Washer Head - Zinc/Aluminum Cap

To Install VersaBracket™

1. Determine the location of the supporting structure of the roof. When possible, secure the VersaBracket using all hole locations; when not possible, always use the two upslope hole locations. The only surface preparation necessary is to simply wipe away excess oil and debris.
2. Peel the release paper from the base, align, and apply to roof surface.
3. Secure the VersaBracket by drilling screws through pre-punched holes, directly into the supporting structure of the roof (3 holes are provided for convenience and versatility). Consult the S-5! Load Table for more information.
4. The VersaBracket is now ready to install ancillaries. VersaBracket-47™ & VersaBracket-67™ utilize a nut and bolt connection (stainless steel M8-1.25 nut and bolt **not** provided).

S-5!® Warning! Please use this product responsibly!

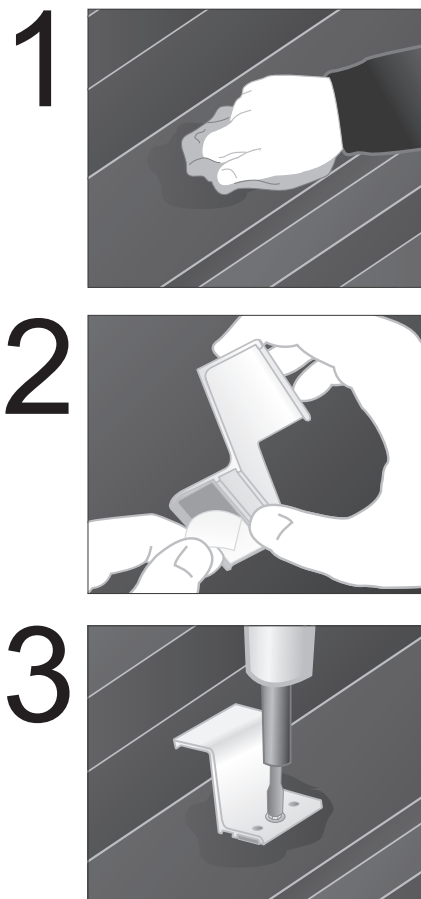
S-5!® Warning! Please use this product responsibly! Products are protected by multiple U.S. and foreign patents. For published data regarding holding strength, fastener torque, patents, and trademarks, visit the S-5! website at www.S-5.com.

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S-5! aggressively protects its patents, trademarks, and copyrights. Version 112513.

These instructions are for use by those experienced in the trade. Always follow appropriate safety precautions and use appropriate tools.

VB47671-V1.0-0915



VersaBracket™ Install

888-825-3432 | www.S-5.com

Installation Instructions

Stop! Has your ColorGard® system been designed properly with the assistance of a distributor or the online ColorGard calculator? If not, see our Calculator and Load Table at www.S-5.com, or ask your distributor!

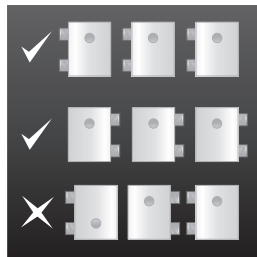
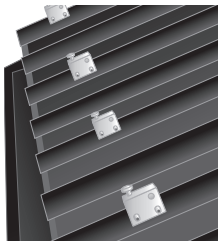
Notice to S-5!® users: Specific layout and assembly schematics for S-5! products are the responsibility of the user or project designer. Due to the many variables involved with specific panel products, climates, snow melt phenomena, and job particulars, the manufacturer cannot and does not express any opinions as to the suitability of any S-5! assembly for any specific application and assumes no liability with respect thereto. S-5! clamps are tested for ultimate holding strength on various seam types and materials. This information is available from the S-5! website: www.S-5.com. This document is an installation guide only and the photographs and drawings herein are for the purpose of illustrating installation tools and techniques, not system designs. Clamp spacing should never exceed 32" with standard products (contact your distributor for products to accommodate a seam spacing greater than 32").

Tools Needed

- Electric Screw Gun
- Box End Wrench, 1/2" Drive Impact Wrench, or Ratchet
- Saw to cut ColorGard crossmember
- Tin Snips
- String Line
- Torque Wrench
- Pliers or Vice Grip

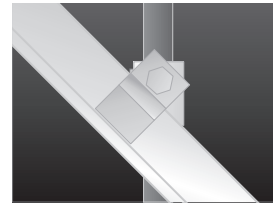
To Install ColorGard®

- 1. Before You Start:** First, use a string line across the top of the panel seams at the desired location to establish a true line for installation of the S-5! clamps. Individually measuring from the eave to determine each clamp location is not recommended. **Before continuing, please take a moment to read the important notice about SnoClip™ on the back side of these installation instructions.**
- 2. Preparing The Clamps:** If the ColorGard assembly utilizes the VersaClip™ for attachment of the ColorGard crossmember, the bolt hole in the clamp should be at the upslope end of the clamp. If the assembly uses punched ColorGard without VersaClip, the hole should be at the downslope end of the clamp. When using the S-5-U, determine which side of the clamp to load the setscrews into, and thread the setscrews into all clamps, being careful that the bolt hole will be in the correct (upslope or downslope) orientation, with the setscrews on the correct side of the seam. Both setscrews must be on the same side of the clamp.
- 3. Installing The Clamps:** S-5! clamps are installed differently depending upon clamp model and seam style. Please see the installation instructions included with your clamps. For maximum holding strength, setscrews should be tensioned and re-tensioned as the seam material



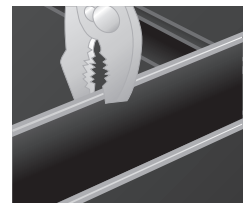
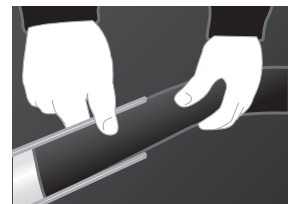
compresses. Screw tension should be verified using a calibrated torque wrench between 160 and 180 inch pounds when used on 22ga steel and between 130 and 150 inch pounds for all other metals and thinner gauges of steel. Please visit our load table at www.S-5.com to determine the proper screw tensions and holding strength.

Using VersaClip: When seam spacing is not divisible by 4" (e.g. 12", 16", 24"), or when panels are not laid up true-to-dimension, or when ColorGard is installed askew to the panel seams (e.g. parallel with the line of a valley), the VersaClip facilitates installation. The VersaClips are inserted into the ColorGard prior to placement of ColorGard on the clamps. Align clips with S-5! clamp. VersaClip can be used with punched or unpunched ColorGard.



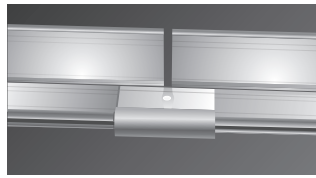
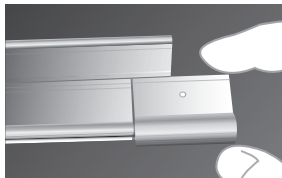
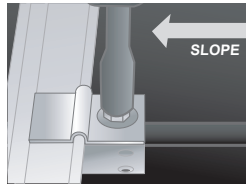
4. Installing The ColorGard:

To maintain color conformity over time, ColorStrips should be sheared from the same pre-finished metal as the roof panels. Shear strips to exactly 2" wide (8' or 10' long). Slide the ColorStrip into the ColorGard crossmember as shown (right). If the strip length is 8', it may be pre-assembled into the ColorGard crossmember. If the strip is 10' long, it will be assembled to the ColorGard as installation progresses. Joints in the ColorGard should be concealed by offsetting the joints of the ColorStrip from the joints of the ColorGard. The joints of the ColorStrips can be overlapped about 1/2" if desired. Each ColorStrip should be secured to the ColorGard somewhere along its length. This is done by pinching the retainer lip of the ColorGard with an ordinary pair of pliers. It can be done at one end of the ColorGard section or anywhere along its length to prevent lateral migration of the ColorStrip.



5. Bolt ColorGard® to Clamps:

Attach ColorGard to clamps with the stainless bolts and washers provided. Bolts can be tightened with a 9/16" (17 mm) box-end wrench, or ratchet. On larger jobs, a 1/2" drive electric impact will expedite this work. Tension bolts to a minimum of 20 ft. lbs. (27 Nm). Add Splice pieces at each ColorGard joint as shown below. The "dimple" in the Splice piece will automatically provide a 1/8" space between adjoining sections to allow for linear thermal expansion of the ColorGard. Trim ColorGard at the end of the assembly, being sure it does not cantilever more than 4" beyond the last clamp of an assembly. Any trimmed piece of ColorGard must be attached with at least two clamps.



ColorGard Cutting Tip: If it is necessary to field cut ColorGard, such as at the end of an assembly, it can be done with a hack saw or electric reciprocating saw with a fine-tooth metal cutting blade. A power mitre saw with a fine tooth carbide tip blade also works well.

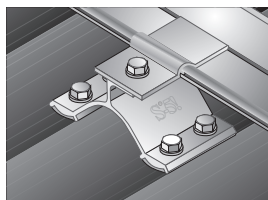
Using VersaBracket™

1. Install the bracket. See installation instructions that were included with your bracket.
2. Fasten unpunched ColorGard to the top flange of the bracket using a 1/4 - 14 self-drilling screw.

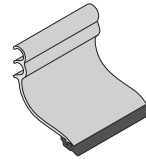


Using CorruBracket™

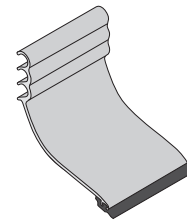
1. Install the bracket. See installation instructions that were included with your bracket.
2. Fasten ColorGard to the bracket in the same fashion as step 5.



Using SnoClip™

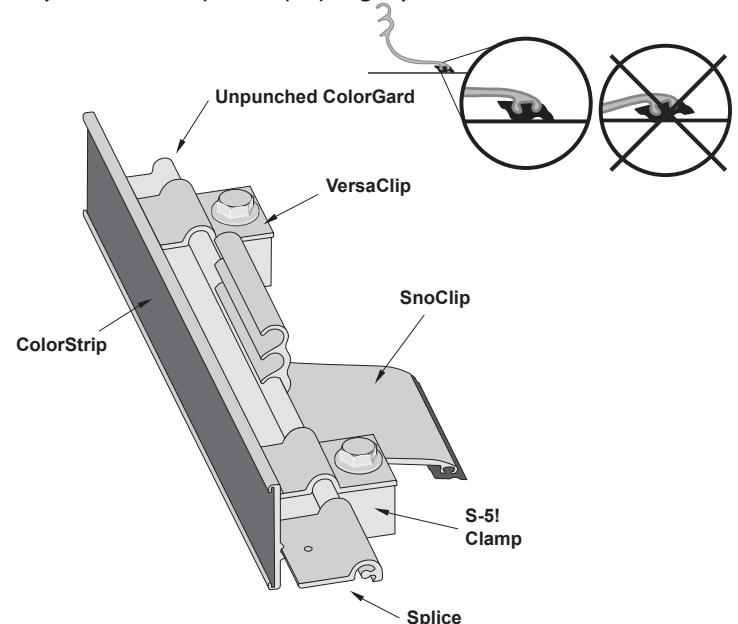
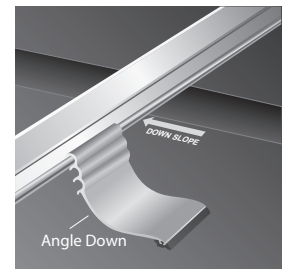


SnoClip II



SnoClip III

IMPORTANT NOTICE! — SnoClip™ design has changed. SnoClip must now slide on from the end of the ColorGard crossmember. Be sure to slide SnoClip onto assembly before attaching crossmember to clamps (a new Retro-Fit SnoClip™ is also available from your authorized S-5!® distributor.) One SnoClip is used between seams (in rare cases two SnoClips may be desired; see www.S-5.com for details). Mount the SnoClip to the back of the ColorGard using the lock that results with the rubber "foot" resting properly on the panel surface. When applying downward pressure on the part, the "toe" should engage the surface of the panel just before the "heel." Periodic maintenance over time may be necessary to ensure that the SnoClips maintain the appropriate positioning, as snow weight may sometimes flip the clip up slightly.



S-5!® Warning! Please use this product responsibly!

Products are protected by multiple U.S. and foreign patents. Visit the website at www.S-5.com for complete information on patents and trademarks. For maximum holding strength, setscrews should be tensioned and re-tensioned as the seam material compresses. Clamp setscrew tension should be verified using a calibrated torque wrench between 160 and 180 inch pounds when used on 22ga steel, and between 130 and 150 inch pounds for all other metals and thinner gauges of steel. Consult the S-5! website at www.S-5.com for published data regarding holding strength.

Copyright 2013, Metal Roof Innovations, Ltd. S-5! products are patent protected. S-5! aggressively protects its patents, trademarks, and copyrights. Version 080813. These instructions are for use by those experienced in the trade. Always follow appropriate safety precautions and use appropriate tools.

SECTION 07 72 53

COLORGARD® SNOW GUARDS

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Snow guards for metal roofs.
 - 2. [Non-penetrating] [Face fastened] attachment system.

1.2 RELATED SECTIONS

- A. Division 01: Administrative, procedural, and temporary work requirements apply to this section.
- B. Section 07 41 13 - Metal Roof Panels
- C. Section 07 61 00 - Sheet Metal Roofing
- D. Section 07 62 00 – Sheet Metal Flashing and Trim
- E. Section 07 72 55 - Roof Accessory Attachment System.
- F. Section 13 34 19 – Metal Building Systems

1.3 REFERENCES

- A. Aluminum Association (AA) - Aluminum Standards and Data, 2003 Edition.
- B. ASTM International (ASTM):
 - 1. B85-03 - Standard Specification for Aluminum-Alloy Die Castings.
 - 2. B221-04a - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes.

1.4 SUBMITTALS

- A. Action Submittal:
 - 1. Shop Drawings: Include roof plans showing locations of snow guards on roof and attachment details and spacing.
 - 2. Product Data:
 - a. Product description.
 - b. Construction details.
 - c. Material descriptions.
 - d. Individual component dimensions.
 - e. Finishes.
 - f. Installation instructions.
 - 3. Samples:

- a. Clamp samples.
 - b. 12-inch long cross member samples including all associated hardware.
- B. Informational Submittals:
 - 1. Include calculation of number and location of snow guards based on designed roof snow load, roof slope, roof type, components, spacings and finish
 - 2. Test results: Results of product tensile load testing, issued by a recognized independent testing laboratory, showing ultimate load-to-failure value of attachment.
- C. Closeout Submittals:
 - 1. Certification: Installer's certification that snow guard system was installed in accordance with manufacturer's instructions and approved Shop Drawings.

1.5 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Manufacturer to specialize in production of Snow Guard Products of the type specified with a minimum of 20 years documented experience.
- B. Installer Qualifications: Installer to specialize in metal roof installation and installation of Snow Guard Products with a minimum of 5 years documented experience.
- C. Mockup:
 - 1. Size: Minimum [8] [] feet long.
 - 2. Show: Snow guard attachment, cross members, and accessories.
 - 3. Locate [where directed.] [].
 - 4. Approved mockup may remain as part of the Work.

1.6 DELIVERY, STORAGE AND HANDLING

- A. Deliver components to jobsite properly packaged to provide protection during transport, delivery and handling.
- B. Store products in manufacturer's original labeled and unopened packaging in a clean and dry location, protected from potential damage, until ready for application.

PART 2 - PRODUCTS

2.1 SYSTEM DESCRIPTION

- A. Attachment system to provide attachment to standing seam metal roofs:
 - 1. With only minor dimpling of panel seams.
 - 2. Without penetrations through roof seams or panels.
 - 3. Without use of sealers or adhesives.
 - 4. Without voiding roof warranty.
- B. Performance Requirements: Provide snow guards to withstand exposure to the weather and environmental elements, and resist design forces without failure due to defective manufacture.
 - 1. Loading: Design snow guard system to resist minimum in-service vector load of [] pounds per linear foot of eave.
 - 2. Factor of safety: Utilize a factor of safety \geq [2] [] to determine allowable loads from ultimate tested clamp tensile load values.
 - 3. Source Limitation: Provide snow guard system as designed and tested by the manufacturer as a complete system. Install components by the same manufacturer.

2.2 MANUFACTURER

- A. Acceptable Manufacturer: S-5! Metal Roof Innovations, Ltd., 8655 Table Butte Road, Colorado Springs, CO. 80908; Tel: 888-825-3432; Fax: 719-495-0045; Email: support@s-5.com; Web: www.s-5.com
- B. Substitutions: Not permitted.

2.3 BAR/RAIL-TYPE SNOW RETENTION SYSTEMS FOR STANDING SEAM METAL ROOFS

- A. Basis of Design: ColorGard, manufactured by S-5! Metal Roof Innovations, Ltd.
- B. Components:
 - 1. Clamps
 - a. Manufactured from 6061-T6 aluminum extrusions conforming to ASTM B221 or aluminum castings conforming to ASTM B85 and to AA Aluminum Standards and Data.
 - 1) Model: No. [S-5-U.] [S-5-S.] [S-5-T.] [S-5-Z.] [S-5-E.] [S-5-B.] [S-5-Q.] [S-5-H.] [S-5-K700.] [S-5-H90.] [S-5-N.] [S-5-N 1.5.] [S-5-KHD.] [S-5-V.] [S-5-K Grip.] [S-5-R465.]
 - b. Set screws: 300 Series stainless steel, 18-8 alloy, 3/8 inch diameter, with round nose point.
 - c. Attachment bolts: 300 Series stainless steel, 18-8 alloy, 8 mm or 10 mm diameter, hex flange bolt..
 - 2. Brackets:
 - a. Manufactured from 6061-T6 or 6005-T5 alloy and temper aluminum extrusions conforming to ASTM B221 and AA Aluminum Standards and Data or cast aluminum.
 - 1) Model: No. [VersaBracket 47.] [VersaBracket 67.] [CorruBracket.].
 - b. Screws for attachment of brackets to roof: Type best suited to application: Metal to metal applications: ¼-14 self drilling point, 2 inch length, 3/8 inch hex washer head, Zinc/Aluminum cap. Metal to wood applications: ¼-14 type 17 AB milled point, 2 inch length, 3/8 inch hex washer head, Zinc/Aluminum cap.
 - 3. Cross Members:
 - a. Manufactured from 6061-T6 or 6005-T5 alloy and temper aluminum extrusions conforming to ASTM B221 and AA Aluminum Standards and Data.
 - b. Receptacle in face to receive color-matched metal strips.
 - c. Provide splice connectors ensuring alignment and structural continuity at end joints.
 - 4. Color Strips: Same material and finish as roof panels; obtained from roof panel manufacturer.
 - 5. Snow and Ice Clips:
 - a. Aluminum, with rubber foot, minimum 3 inches wide.
 - 1) Model: SnoClip II or SnapClip II for standing seam heights 1” to 1.75”
 - 2) Model: SnoClip III or SnapClip III for standing seam heights 1.75” to 3”

PART 3- EXECUTION

3.1 EXAMINATION

Prior to beginning installation, verify that:

- 1. Panel seaming is complete.
- 2. Panel attachment is sufficient to withstand loads applied by snow guard system.
- 3. Installation will not impeded roof drainage.

Prior to beginning installation, verify that:

1. Roof attachment is sufficient to withstand loads applied by snow guard system.
2. Installation will not impede roof drainage.

3.2 PREPARATION

- A. Clean areas to receive attachments; remove loose and foreign matter that could interfere with installation or performance.

3.3 INSTALLATION

- A. Install system in accordance with manufacturer's instructions and approved Shop Drawings

- B. ColorGard Snow Retention System:

1. Place clamps at maximum 32 inches on center or as required by in-service loads.
2. Place clamps in straight, aligned rows.
3. Place both set screws on same side of clamp.
4. Tighten set screws to manufacturer's recommended torque. Randomly test set screw torque using calibrated torque wrench.
5. Insert color-matched metal strips into cross members, staggering strips to cover cross member joints.
6. Attach cross members to clamps; tighten bolts to manufacturer's recommended torque.
7. Install splice connectors at cross member end joints.
8. Do not cantilever cross members more than 4 inches beyond last clamp at ends.
9. Install [one SnoClip or SnapClip] [two SnoClips or SnapClips] per panel between panel seams.
 - a. SnoClips: slide onto cross member before securing cross member to clamps
 - b. SnapClips: Secure [SnapClip II] [SnapClip III] to back side of cross member using stainless steel #10 x ½ inch screw

1. Place brackets at maximum 32 inches on center or as required by in-service loads.
2. Clean roof area to receive bracket. Remove protective seal on butyl tape
3. Place brackets in straight rows along underlying substrate.
4. Insert color-matched metal strips into cross members.
5. Place brackets at spot of attachment and fasten with screws best suited for type of attachment
6. Attach cross members to brackets using self drilling screws.
7. Install splice connectors at cross member end joints.
8. Do not cantilever cross members more than 4 inches beyond last bracket at ends.

9. Install SnoClips or SnapClips at spacings indicated on Shop Drawings.
 - c. SnoClips: slide onto cross member before securing cross member to clamps
 - d. SnapClips: Secure [SnapClip II] [SnapClip III] to back side of cross member using stainless steel #10 x ½ inch screw (provided).

END OF SECTION



Rocky Mountain Snow Guards Inc

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Rocky Mountain Snow Guards Snow Retention System Maintenance Guide

Systems designed by Rocky Mountain Snow Guards, installed properly should last the life of the roof. Rocky Mountain does not recommend adhesive tape or sealant attachment for any snow fence or snow guard system. Rocky Mountain snow retention systems installed on commercial buildings, above high traffic areas or in areas with high snow loads should be inspected by a qualified roofing or snow retention professional on an annual basis to ensure the system will continue to perform as designed.

Bolt Down Snow Fence Systems:

1. Inspect brackets, snow fence components and fasteners for evidence of damage.
2. Replace damaged parts prior to the next snow season.

Clamp to Seam Snow Fence and Snow Bar Systems:

1. Inspect brackets, snow fence and snow bar components for evidence of damage.
2. Replace damaged parts prior to the next snow season.
3. Check torque on set screws with an appropriate torque wrench.
4. Torque set screws to recommended torque. This is especially important after the 1st snow season.

Snow Guards:

1. Inspect snow guards for evidence of damage.
2. Inspect exposed fasteners.
3. Replace damaged parts prior to the next snow season.