

Snow Bird Pad-Style Snow Guard Submittal Document Set

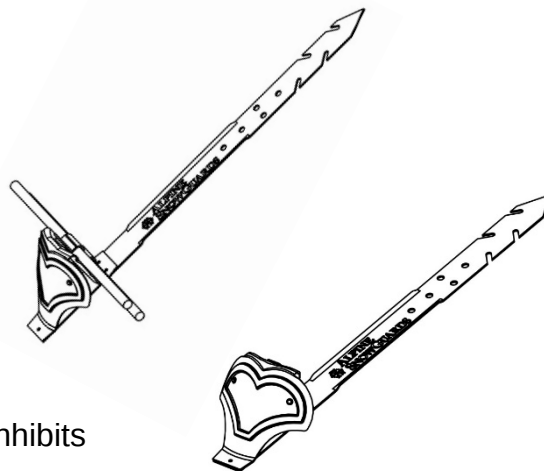
ROOF TYPES

- New / Existing Cedar Shingle
- New / Existing Composition (Asphalt) Shingle
- New / Existing Slate
- New / Existing Synthetic Shake or Slate
- New / Existing Tile (Flat, Mission, Round)

AVAILABLE MATERIALS

- Brass (BR)
- Galvanized Cold Rolled Steel (CRS)
- Copper Plated Stainless Steel (SSCU)*

*Copper-plated parts are sealed to prevent permanent discoloration during the production process. This sealant inhibits the natural patina process for 2-3 years.

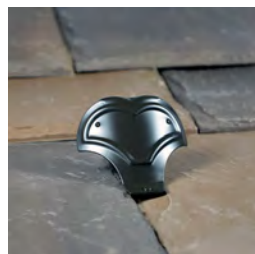


AVAILABLE FINISHES

- Mill Finish (Standard – BR or CRS)
- Pre-Powder Coated – Dark Bronze (CRS)
- RAL TIGER Drylac® Powder Coating Options

FEATURES/ADVANTAGES

- Pad-style hybrid allows installer to add optional rods during or after install.
- Snow Bird is a best-selling solution to manage snow on 18 new and retrofit roof types
- Stiffening ribs on front of pad add rigidity and strength while allowing optional rods to sit static.
- Strap is available in multiple lengths to accommodate various roofing materials as well as retrofit applications.
- Ideal for residential customers who don't like the look of a pipe-style system on their roof, but want the benefits a pipe-style system provides.
- Protects against snow damage at the lower roof level (gutters, valleys, crickets, roof protrusions, plumbing vents, etc) and at ground level (cars, people, landscaping, pets, walkways, ground mounted mechanical units).

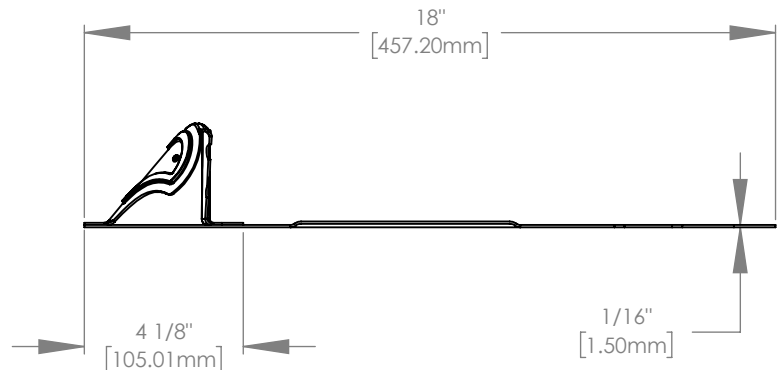
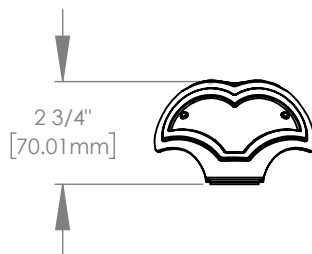
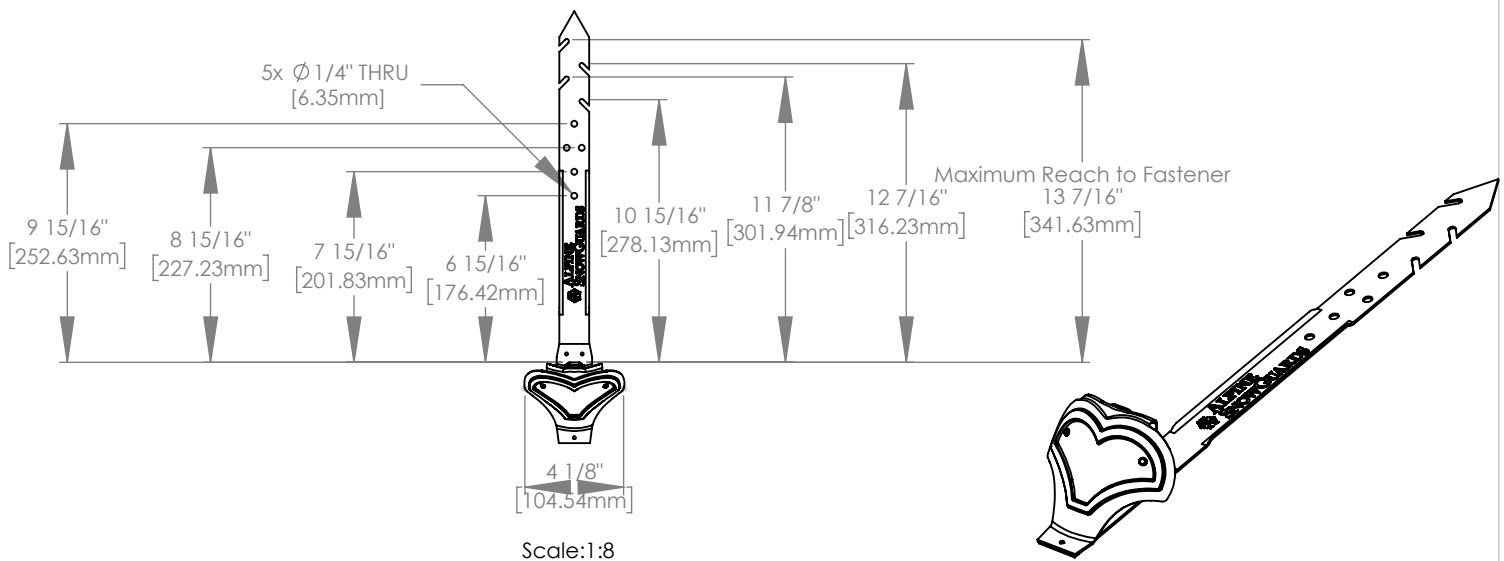


Cut Sheet - SNOW BIRD

1. Installation to be completed in accordance with manufacturer's written specifications and installation instructions.
2. See spec sheet or contact manufacturer for detailed material, finishes, and configuration options.
3. Contact manufacturer for detailed layout.
4. Do not scale drawings.
5. Subject to change without notice.
6. For patent information, visit our [Patent Page](#).

Available Materials/Finishes:

- ☐ Cold Rolled Steel (Galvanized)
 - ☐ Mill Finish
 - ☐ Pre-Powder Coated Dark Bronze
 - ☐ Powder Coated
 - Tiger Drylac RAL # _____
- ☐ Copper Plated Stainless Steel (SSCU)



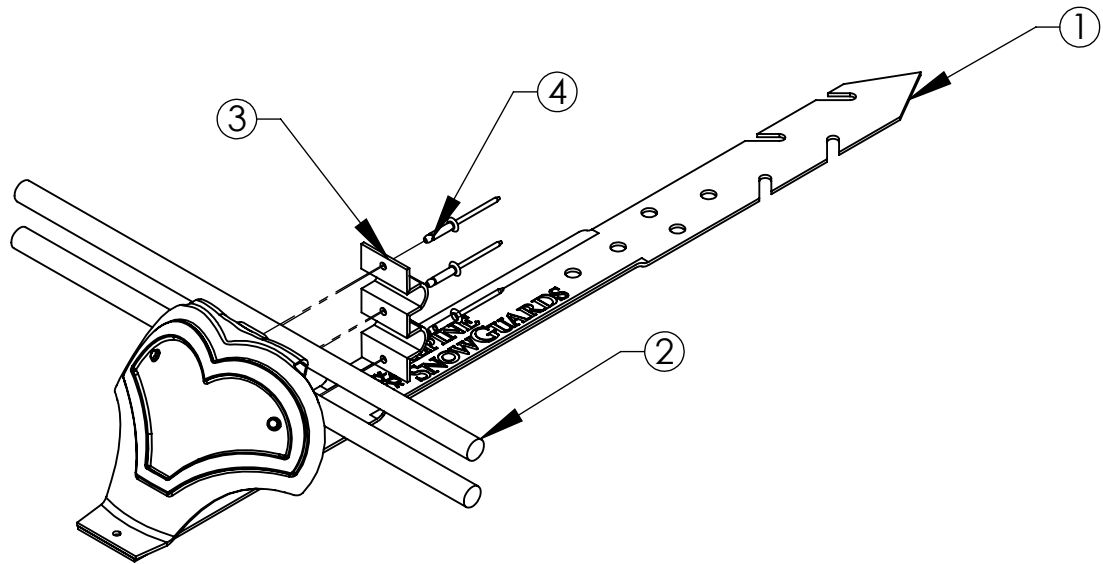
289 Harrel Street
Morrisville, VT 05661
Phone: 1.888.766.4273
Fax: 1.888.766.9994
Email: Info@alpinesnowguards.com

Scale: 1:5

9/28/2023

Assembly Sheet - SNOW BIRD WITH ROD

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ITEM NO.	PART CODE	DESCRIPTION	QTY
1	SNOW BIRD	SNOW BIRD	1
2	RD-77 OR PP77	.375" ROD OR PIPE (6' LENGTHS)	AS NEEDED
3	FUSION-GUARD-ROD BRK	FUSION-GUARD ROD BRACKET-SS	1
4	R-POP SS 3.0X6.0	SS POP RIVET 3.0X6.0 (INCLUDED WITH ROD BRACKET)	3



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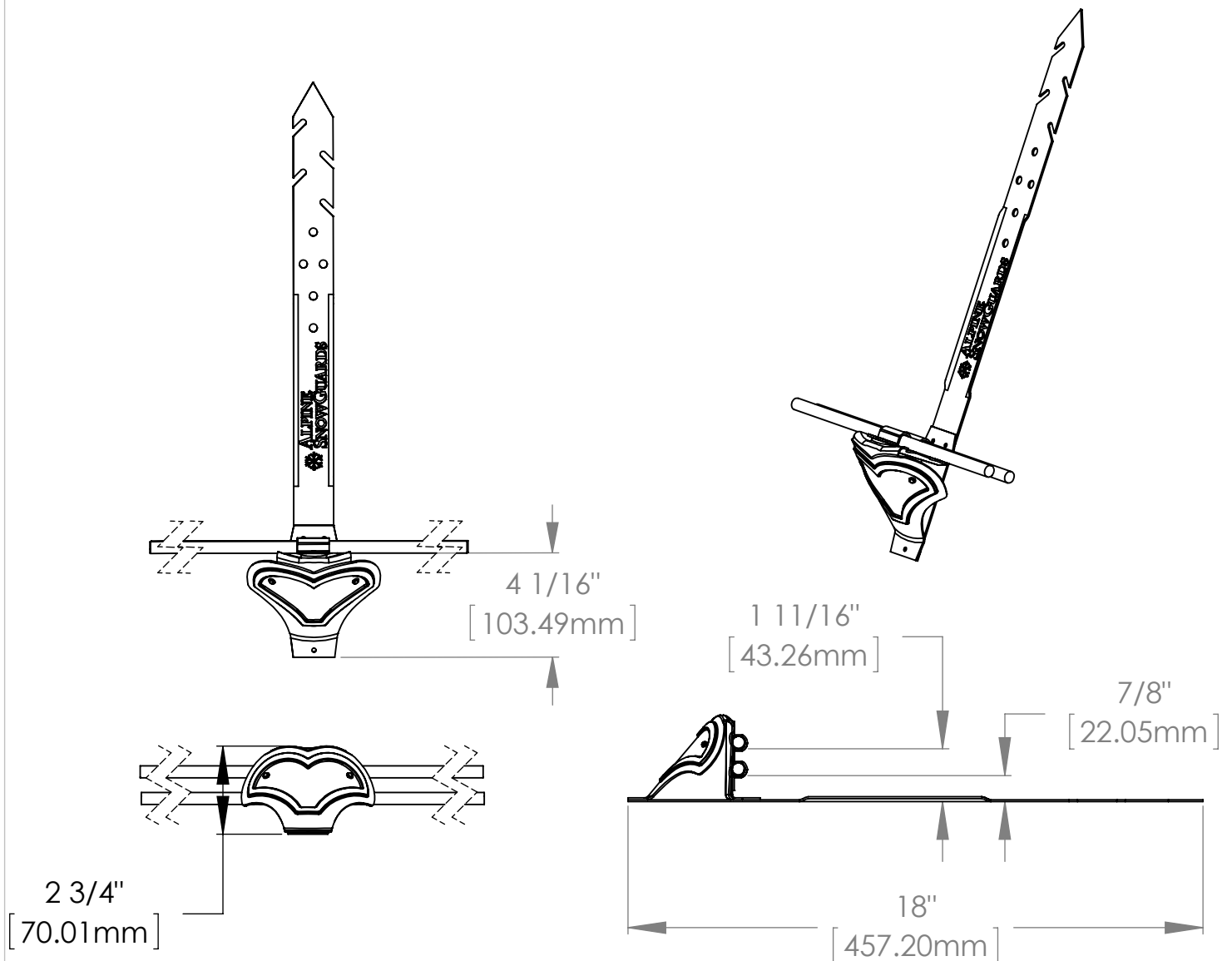
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Cut Sheet - SNOW BIRD WITH ROD

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Available Materials/Finishes:

- ☐ Cold Rolled Steel (Galvanized)
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Snow Bird Specification Sheet Snow Guards

PART 1 – GENERAL

1.1 SUMMARY

A. WORK INCLUDES

1. Snow Bird snow guard that attaches directly to roof deck.
2. Coordinate with installation of roof to assure proper placement of snow guards.
- 3 Provide appropriate snow guard and fasteners for roof system.

B. RELATED SECTIONS

- | | |
|---|----------------------------|
| 1. Section 076000: Flashing and Sheet Metal | MasterFormat 2016 07 60 00 |
| 2. Section 073100: Shingles and Shakes | MasterFormat 2016 07 31 00 |
| 3. Section 073200: Roofing Tiles | MasterFormat 2016 07 32 00 |
| 4. Section 077253: Snow Guards | MasterFormat 2016 07 72 53 |

1.2 SYSTEM DESCRIPTION

A. COMPONENTS:

Bracket: A snow guard system that consists of individual metal snow guards.

1. SNOW BIRD

Bracket Accessories (for use only with 3/8" rod/pipe): Rod/pipe, attachment rod bracket, and rivets that allow installer to use as a hybrid pad/rod-style snow guard system.

2. RD77 (3/8" rod) or PP77 (pipe)
3. FUSION-GUARD-ROD BRK Rod Bracket
4. R-POP SS 3.0X6.0 Rivet

B. ROD ACCESSORIES:

1. RD87, external couplings
2. RD65, end collars
3. RD95, ice flags (optional)

C. DESIGN REQUIREMENTS:

1. Spacing to be recommended by manufacturer or building engineer.
2. Install 2 fasteners per snow guard.
3. It is important to design new structures or assess existing structures to make sure they can withstand retained snow loads.
4. When used with rods, a break in the assembly is required every 48-feet and rods have a 6-inch maximum allowable overhang from end bracket.

1.3 SUBMITTAL

- A. Submit manufacturer's specifications, standard detail drawings and installation instructions.

1.4 QUALITY ASSURANCE

- A. Installer to be experienced in installation of specified roofing material and snow guards for not less than 5 years in the area of the project.



Snow Bird Specification Sheet Snow Guards

1.5 DELIVERY / STORAGE / HANDLING

A. Inspect material upon delivery and order replacements for any missing or defective items.
Keep material dry, covered and off the ground until installed.

PART 2 – PRODUCTS

2.1 MANUFACTURER

A. Alpine SnowGuards®, a Division of Vermont Slate & Copper Services Inc.
289 Harrel St. Morrisville, VT 05661 | 888) 766-4273 | www.alpinesnowguards.com

2.2 MATERIALS

A. Snow Bird (choose one)

1. DC01 Galvanized Cold Rolled Steel (CRS) - 0.059" Thickness
2. 304 Stainless Steel Copper Plated Finish* - .059" Thickness

*Copper-plated parts are sealed to prevent permanent discoloration during the production process. This sealant inhibits the natural patina process for 2-3 years.

2.3 ACCESSORY MATERIALS

A. FUSION-GUARD-ROD BRK – 304 Stainless Steel

B. R-POP SS 3.0X6.0 – 304 Stainless Steel

C Rod (RD77) or Pipe (PP77) (choose one):

1. 304 Stainless Steel, 3/8" diameter rod
2. 6061 Aluminum, 3/8" diameter pipe

D. External Couplings (RD87). External and exposed coupling which can also serve as an expansion mechanism 3" long (choose one):

1. 304 Stainless Steel, 3/8" diameter

E. End Collars (RD65) (choose one):

1. 304 Stainless Steel
2. 6000 Series Aluminum

F. Ice Flags (RD95) [3" wide x length (as needed)]:

1. 304 Stainless Steel, 3/8" diameter

2.4 FINISH (choose one):

A. DC01 Galvanized Cold Rolled Steel (CRS)

1. Mill Finish
2. Powder Coated Dark Bronze
3. Powder Coated (other) – available at additional cost



Snow Bird Specification Sheet Snow Guards

PART 3 – EXECUTION

3.1 EXAMINATION

A. Substrate

1. Inspect structure on which snow guard system is to be installed and verify that it will withstand any additional loading that it may incur. Notify general contractor of any deficiencies before installing Alpine SnowGuards.
2. Verify that roofing material has been installed correctly prior to installing snow guards.

3.2 INSTALLATION

- ##### **A. Comply with architectural drawings and snow guard manufacturer's recommendations for location of system. Comply with manufacturer's written installation instructions.**

Document Version 05.03.24
07 72 53 Snow Guards

Snow Bird Installation Instructions

ROOF TYPES

- New / Existing Cedar Shingle
- New / Existing Composition (Asphalt) Shingle
- New / Existing Slate
- New / Existing Synthetic Shake or Slate
- New / Existing Tile (Flat, Mission, Round)

NEW ROOF INSTALLATION

1. Install the first 2-3 rows of roofing material (3 rows for slate, tile or shingle. 2 rows for synthetic materials), and place the strap of the snow guard on the roof deck (fig. 1).

Note: When installing on 3-tab shingles, center the Snow Bird on the keyway between shingles.

2. Place snow guard low enough on shingle to leave a minimum gap of 5/8", or at least 3 times the thickness of the shingle, whichever is greater, from the shingle above (fig. 2).
3. Use a minimum of 2 fasteners of a material compatible with snow guard and roof system to attach snow guard.

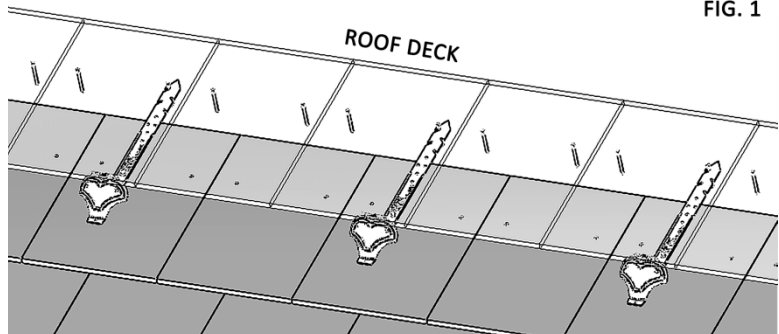


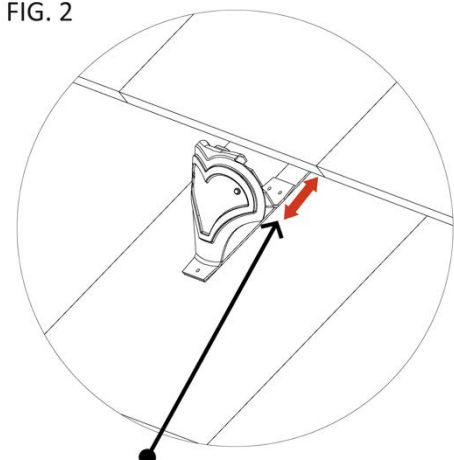
FIG. 1

EXISTING ROOF INSTALLATION (RETROFIT)

1. Slide the snow guard up and between the rows of roofing material, positioning the strap so it is able to hook onto one of the previously installed fasteners above the snow guard. Pull down into place so the snow guard is well seated.
2. It may be necessary to repeat step 1 until the snow guard "hooks" properly. The top of the pad should be placed to leave a minimum gap of 5/8", or at least 3 times the thickness of the roofing material above, whichever is greater (fig. 2).

Note: Use appropriate retrofit hook to adequately space the snow guard head 3 times the thickness of the roofing material. (fig. 2)

FIG. 2



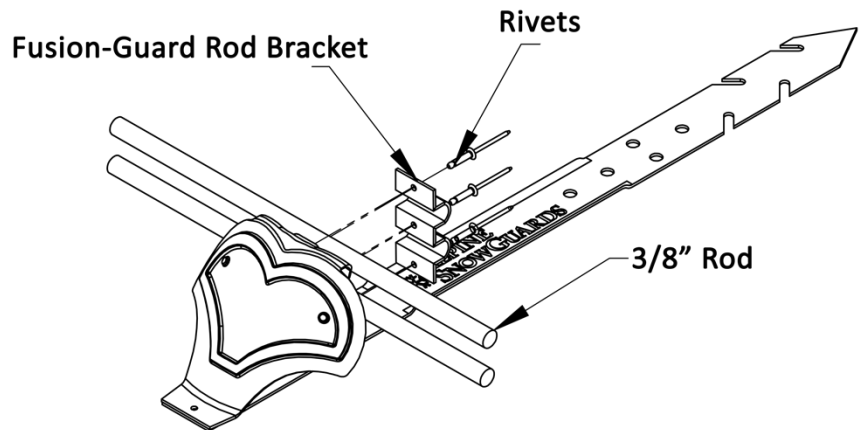
PROPER SNOW GUARD PLACEMENT

Ex. 0.5" shingle thickness X 3 = 1.5" spacing
Back of head is 1.5" from front edge of shingle

Snow Bird Installation Instructions

ROD INSTALLATION (OPTIONAL): Refer to Assembly Sheet for Diagram

1. Fasten the Snow-Bird Rod Bracket to the face of the snow guard using the 3 rivets or #6-32 sheet metal screws.
2. Insert 3/8" rod (RD77).
3. On runs longer than 6', join rods with external couplings (RD87).



Note: Rod style snow guards must have a break in the assembly every 48' of eave length to allow for thermal expansion. Rods have a 6-inch maximum allowable overhang from end bracket.

4. End collars (RD65) should be placed over the end of each run of rod, on the inside of the outermost brackets. End collars should be installed 1/2" from bracket.
5. Optional ice flags (RD95) are available.

OPTIONAL ROD LAYOUT GUIDELINES	
Roof Pitch	Alpine SnowGuards' Guideline*
8/12	Rods installed at least on lowest row of pads
9/12	Rods installed at least on lowest 2 rows of pads
10/12	Rods installed at least on lowest 3 rows of pads
Over 10/12	Rods installed on all rows of pads
*Performance will vary with roof pitch, snow loads, density of snow, etc. Some areas may require more rods than others. The number of rows installed is at the discretion of the end user. If the above rod layouts do not meet your desired performance, additional rows of Fusion-Guard may be installed.	

Snow Bird Installation Instructions

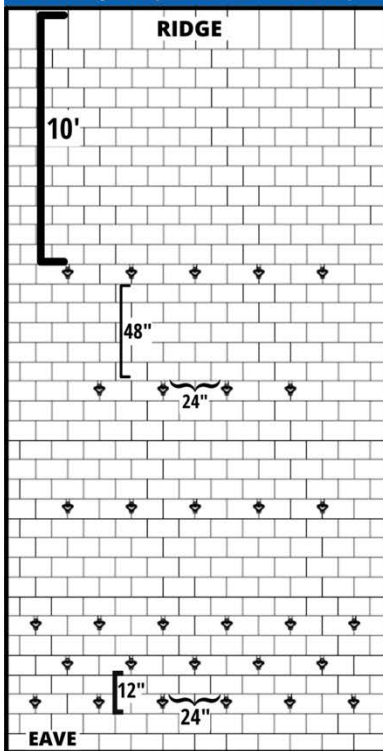
STANDARD SNOW GUARD LAYOUT OPTIONS

IMPORTANT: All layouts begin with a 3-row pattern. Estimated quantities provided include 3-row pattern. If you have any questions, please contact us at 888-766-4273.

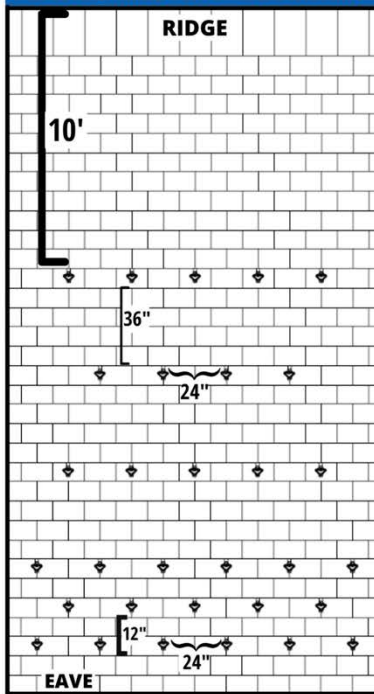
Please use the guidelines below to determine the appropriate layout for your installation.

PAD LAYOUT GUIDELINES					
Layout	Rafter Length	Ground Snow Load (PSF)	Roof Pitch	Est. Snow Guard QTY.	Spacing
3-Row Pattern	15' or Less	75 psf or Less	16/12 or Less	17 per 10' of Eave	3 rows, 24" on center horizontally with middle row staggered 12". Rows vertically spaced every other course.
4 x 2 Pattern	Greater Than 15'	75 psf or Less	16/12 or Less	12 per roofing square	Space rows 2' horizontally and 4' vertically to within 10' of the ridge.
3 x 2 Pattern	Any	76 - 110 psf	16/12 or Less	18 per roofing square	Space rows 2' horizontally and 3' vertically to within 10' of the ridge.
2 x 2 Pattern	Any	111 - 150 psf	16/12 or Less	24 per roofing square	Space rows 2' horizontally and 2' vertically to within 10' of the ridge.

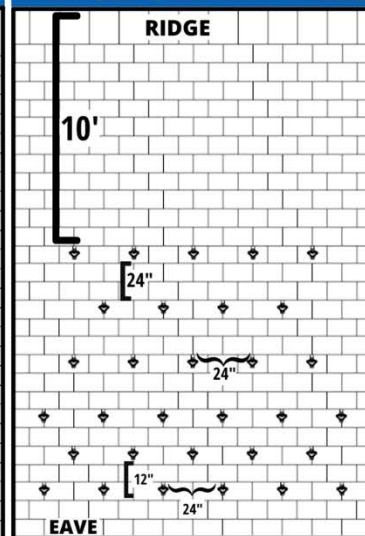
12 PER SQUARE (3-Row + 2 X 4 PATTERN)



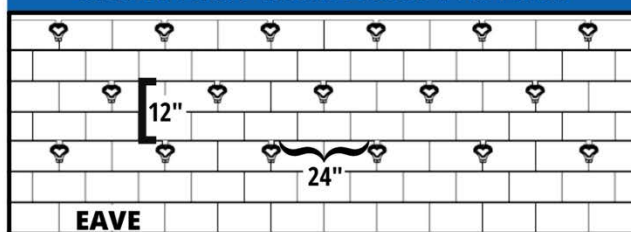
18 PER SQUARE (3-Row + 2 X 3 PATTERN)



24 PER SQUARE (3-Row + 2 X 2 PATTERN)



SNOW BIRD THREE-ROW PATTERN



Document version 08.21.2023
07 72 53 Snow Guards



Snow Guard Maintenance

Our snow guards must be inspected annually. Any defects or damage in materials and/or workmanship must be reported to Alpine SnowGuards immediately. Seller will not be responsible for snow guard systems that have not been properly maintained.

- Ensure snow guard brackets, accessories & components are intact, have not been displaced, and show no signs of damage or wear.
- Inspect fasteners into roof deck.
- Inspect snow guard-related waterproofing and replace or repair where necessary to ensure roof integrity.
- Snow accumulation on roofs and rooftop solar panels must be removed to avoid damage to the roof or panels, the building structure, and anything below. Heavy snowfalls, drifting, and the gradual accumulation of snow and ice can lead to less-than-ideal snow guard performance.
- Check each clamp set screw with a torque wrench to ensure proper fastening has been maintained (clamp-to-seam models).
- Inspect sealant, tape, and adhesive. Remove and replace as needed.

Document Version 04.15.24

TIGER Drylac®

ral colors

exterior powder coatings



TIGER Drylac®
Powder Coatings

series 49

Weather Resistant TGIC Polyester Powder Coatings for Exterior and Interior Applications

Features: Good weather resistance, good mechanical properties, very smooth flow, good storage stability, good coverage

Gloss Level: All colors featured in this chart are available as standard products in smooth glossy with a gloss level of 80-90+ (gloss level according to Garner 60 deg., ASTM D 523).

Typical Applications: Residential windows and doors, garden equipment, patio furniture, automotive accessories, bicycles, motorcycles, sporting goods.

Standard Packaging: 55 lb boxes or 5 lb mini packs

Datasheets: Periodically updated datasheets, showing cure parameters, test results, pre-treatment information and more are available for all products in this chart. Please contact your local TIGER Drylac office or visit www.tigerdrylac.com for the most current edition.



All Series 49 (custom and stock) products, made in the US or Canada are periodically re-certified and carry the UL (Underwriter Laboratories) Recognized Component mark. This UL mark is for all equipment and products intended for the US and Canadian market.

series 38

Highly Weather- and UV-Resistant Powder Coatings based on Super Durable TGIC Polyester for Exterior and Interior Applications

Features: Superior gloss and color retention, excellent weather resistance, good mechanical properties, superior chalk resistance, smooth flow, excellent edge coverage, good storage stability. AAMA 2604-05 conforming.

Gloss Level: All colors featured in this chart are available as standard products in smooth glossy with a gloss level of 80-90 (gloss level according to Gardner 60 deg., ASTM D 523).

Typical Applications: Agricultural and construction equipment, bus shelters, lighting fixtures, playground equipment, site furnishings, garage doors, stadium seating, fencing, automotive equipment, and marine applications.

Standard Packaging: 44 lb boxes and 5 lb mini packs

Datasheets: Periodically updated datasheets, showing cure parameters, test results, pre-treatment information and more are available for all products in this chart. Please contact your local TIGER Drylac office or visit www.tigerdrylac.com for the most current edition.

RAL colors not available: Due to pigmentation a small percentage of colors in the yellow, orange, red and purple range offer only limited UV stability and are therefore not available.

More standard Series 38 products: For additional architectural mattes, glossy and metallic products please see our Series 38 Super Durable Powder Coatings brochure.

Custom colors: Custom colors not shown in this brochure can be custom made in 7 to 10 days. Due to pigmentation some colors in the yellow, orange, red and purple range offer only limited UV stability. UV stability of custom colors in that color range must be verified by our production laboratories on a case by case basis.

TIGER Drylac continues to offer the largest product selection in the powder coating industry. For additional standard products and innovative powder coating solutions please see our numerous other brochures including:

TIGER Drylac Metallic

TIGER Drylac Special Effect

TIGER Drylac Essentials

TIGER Drylac Specialties

TIGER Drylac Series 38 Super Durable

TIGER Drylac Anti-Graffiti

TIGER Drylac Series 58 Super Durable
(for approved applicators only)

TIGER Drylac Series 75 Fluoropolymer
(for approved applicators only)

TIGER Drylac Wood

Specifying TIGER Drylac products

In order to eliminate possible errors in specifying our products, we recommend using the full product number rather than specifying the RAL number only. This product number not only describes the Series/Chemistry, but also the exact color, finish and sheen.

Please check with your local TIGER Drylac office or representative for assistance with specifications and suitability issues.

RAL

Having gained worldwide acceptance over the last few decades, the RAL is the most popular Central European Color Standard used today.

The RAL colors in this chart have been matched as closely as possible. Color chart production methods and influence from heat and light may account for slight color deviation from the actual RAL Standard. This chart therefore can not serve as a standard for RAL color production and is to be used as a guide for color planning and specification only.

To aid in final product selection please contact your regional Tiger Drylac location for a powder coated Q-Panel of the product of your choice.

Product Code Matrix

3 8 / 3 0 0 2 5



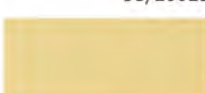
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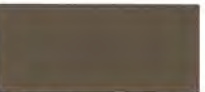
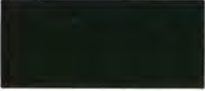
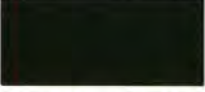
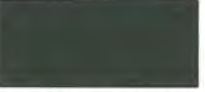
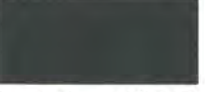
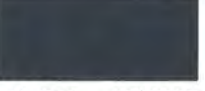
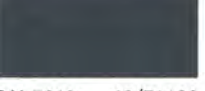
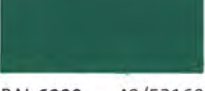
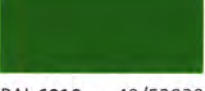
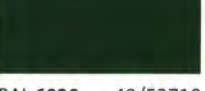
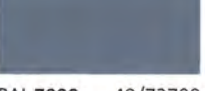
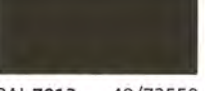
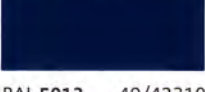
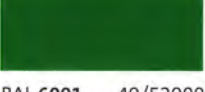
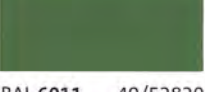
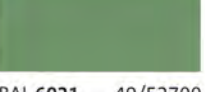
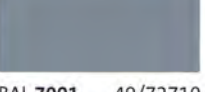
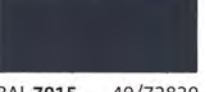
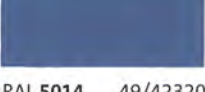
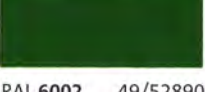
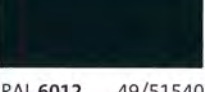
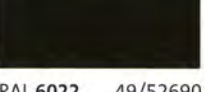
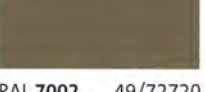
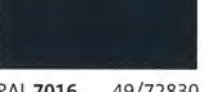
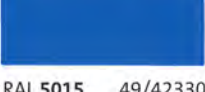
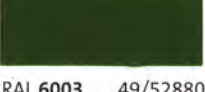
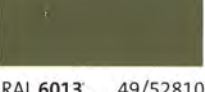
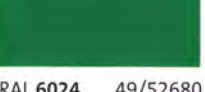
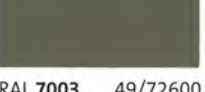
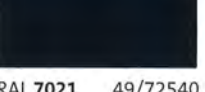
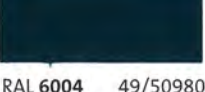
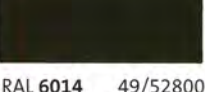
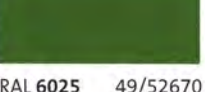
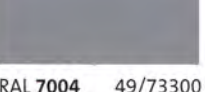
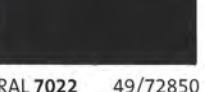
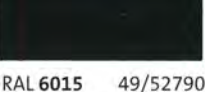
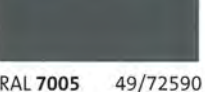
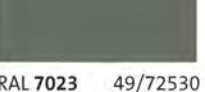
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16 Acrylic Hybrid
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TGIC (for approved applicators only)
39 Polyester TGIC
44 Polyurethane
49 Polyester TGIC
59 Polyester TGIC-Free
69 Epoxy
75 Fluoropolymer
(for approved applicators only)
89 Polyester/Epoxy Hybrid,
Low/Fast Cure

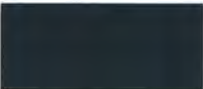
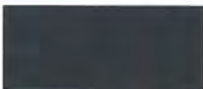
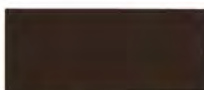
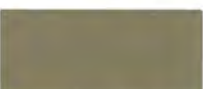
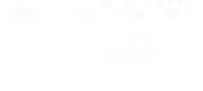


Color Group (starting with)

1 White
2 Yellow / Orange
3 Red
4 Blue
5 Green
6 Brown
7 Grey
8 Black
9 Metallic

					
RAL 1000 49/15200 38/15000	RAL 1015 49/15320 38/15015	RAL 1033 49/22240	RAL 2012 49/24690	RAL 3014 49/31080	RAL 4004 49/31020 38/30024
					
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RAL 1002 49/22590 38/20002	RAL 1017 49/22510 38/20017	RAL 1037 49/20096	RAL 3001 49/31120 38/30001	RAL 3016 49/31980 38/30016	RAL 4006 49/32090
					
RAL 1003 49/22580	RAL 1018 49/21830 38/20018	RAL 2000 49/24570	RAL 3002 49/31110 38/30002	RAL 3017 49/31060	RAL 4007 49/32540 38/30025
					
RAL 1004 49/22570 38/20004	RAL 1019 49/13660 38/15019	RAL 2001 49/24560 38/23170	RAL 3003 49/31100 38/30003	RAL 3018 49/31050	RAL 4008 49/32280
					
RAL 1005 49/22560 38/20005	RAL 1020 49/22500 38/20020	RAL 2002 49/24550 38/25002	RAL 3004 49/33900 38/30004	RAL 3020 49/31040 38/30021	RAL 4009 49/34740
					
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