



PP120 Pipe-Style Snow Guard Submittal Document Set

ROOF TYPES

- New / Existing Composition Shingle
- New / Existing Synthetic Slate

AVAILABLE MATERIALS

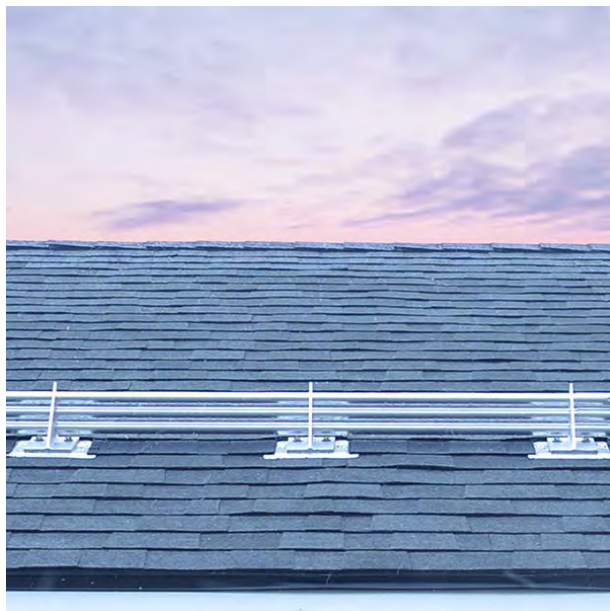
- Aluminum with Stainless Steel Base Plate and Aluminum Flashing (AL) (SS)

AVAILABLE FINISHES

- Mill Finish
- Powder Coating (additional charge) using RAL TIGER Drylac® Exterior Colors

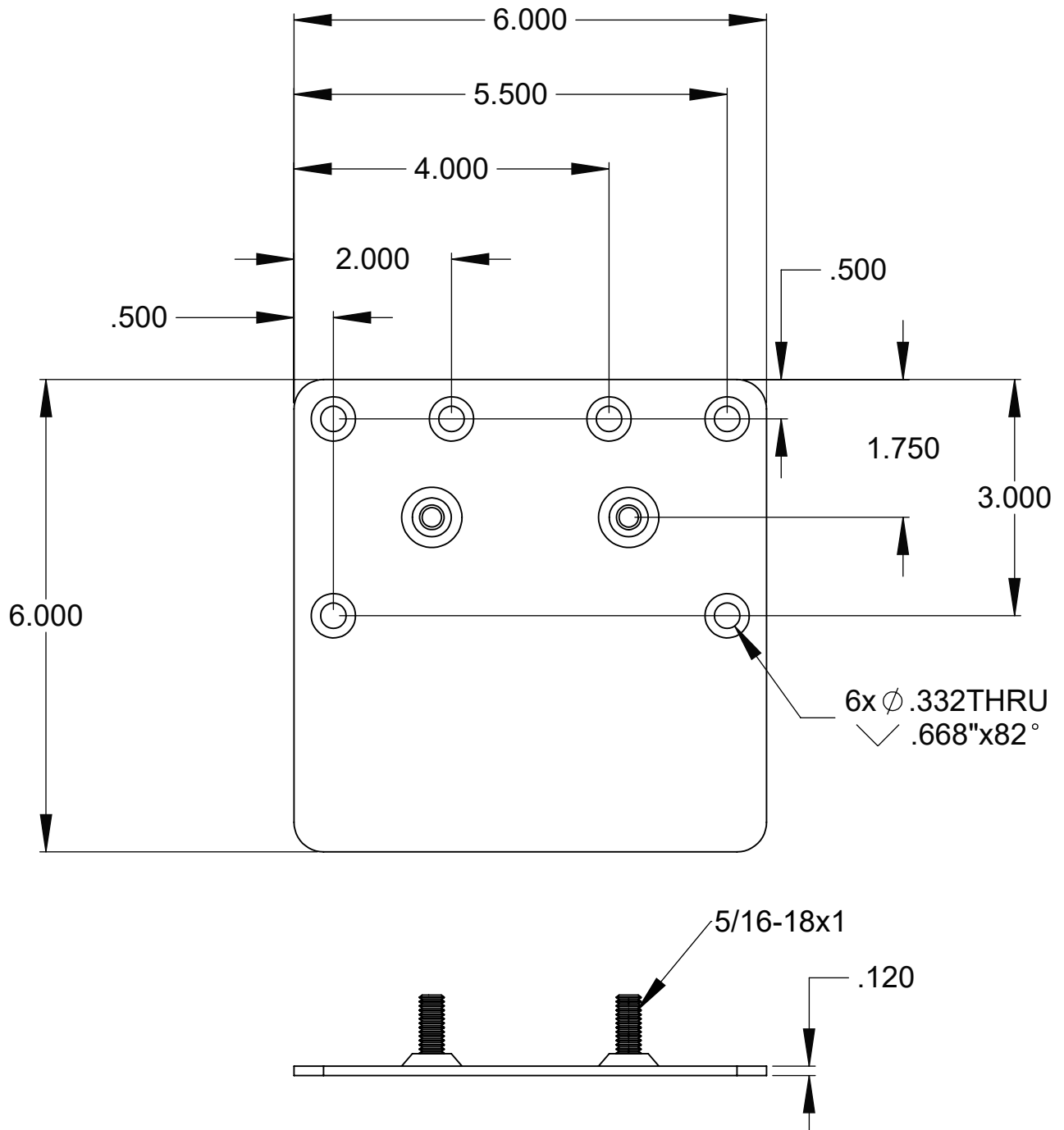
FEATURES/ADVANTAGES

- Bracket measures 6 13/16" L x 4" W x 5 1/2" H
- Base Plate measures 6" x 6"
- Embossed Aluminum Flashing measures 8" x 12"
- 3 configurations include 2-Pipe, 3-Pipe, 2 Hi-Pipe (Hi-Hole)
- All configurations accept 1" OD Pipe (Tubing)
- All configurations are compatible with the use of Ice Flags and Ice Screens
- Internal and External Couplings, End Collars and End Caps are available for this system



Cut Sheet - BASE SS 6X6-100

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](#).



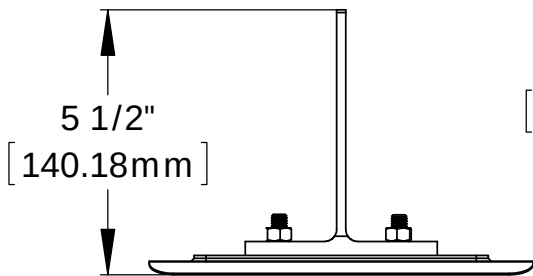
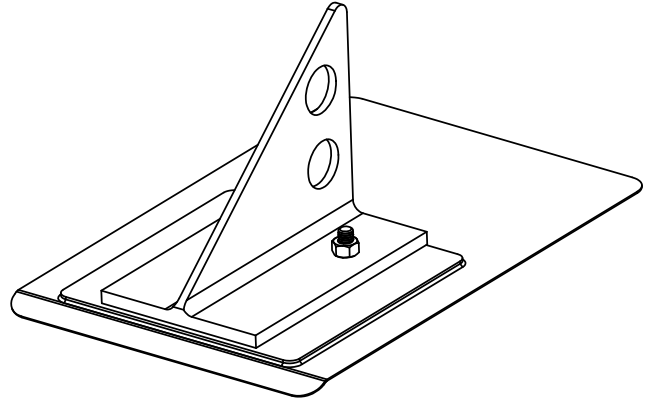
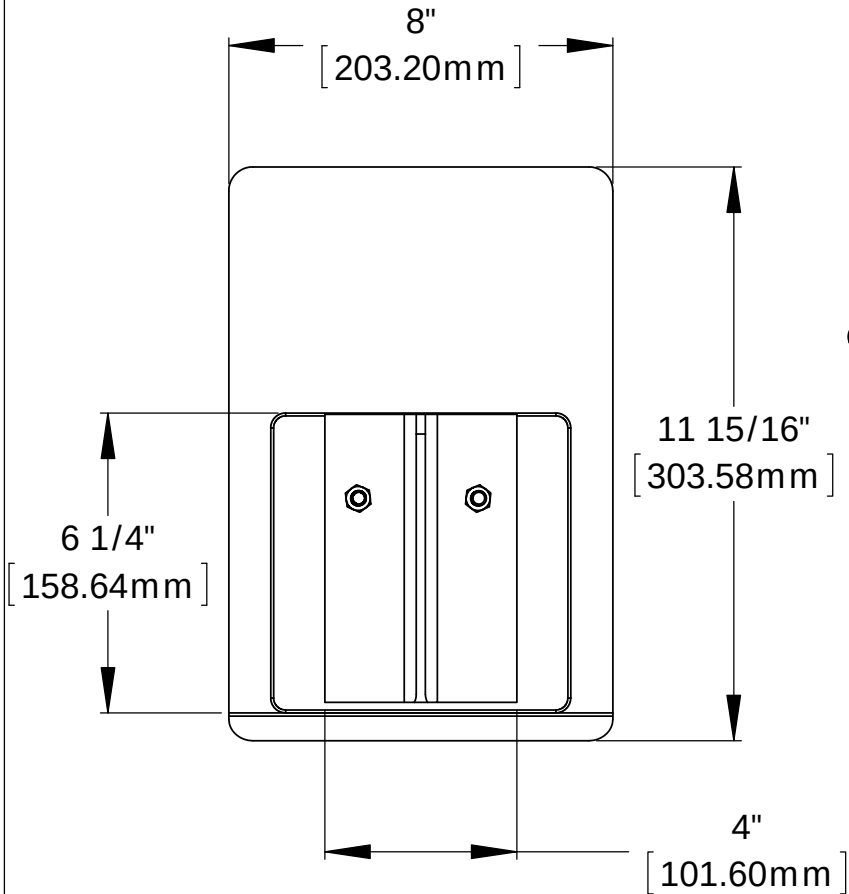
289 Harrel Street
Morrisville, VT 05661
Phone: 1.888.766.4273
Fax: 1.888.766.9994
Email: Info@alpinenowguards.com

Scale: 1:2

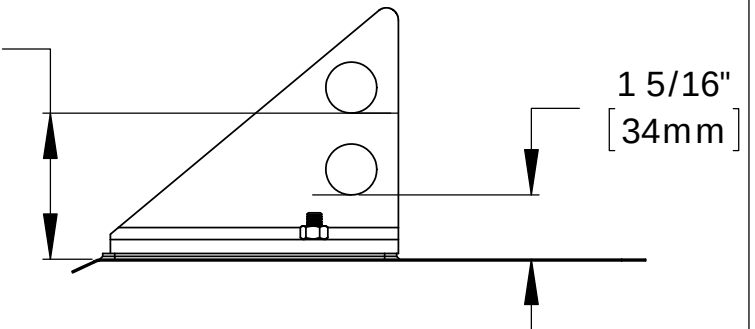
5/30/2023

Cut Sheet - PP120H2ALSS 6X6

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2. See spec sheet or contact manufacturer for detailed material, finishes, and configuration options.
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3 1/16"
[77.31mm]



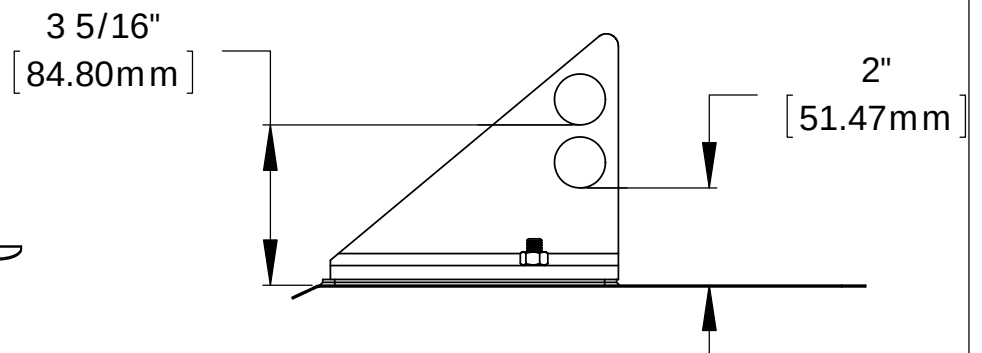
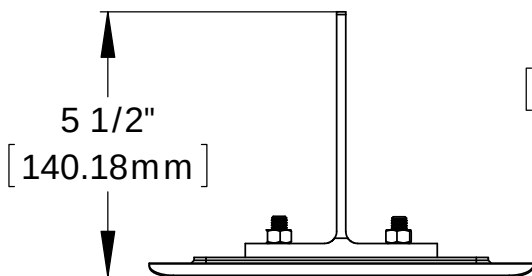
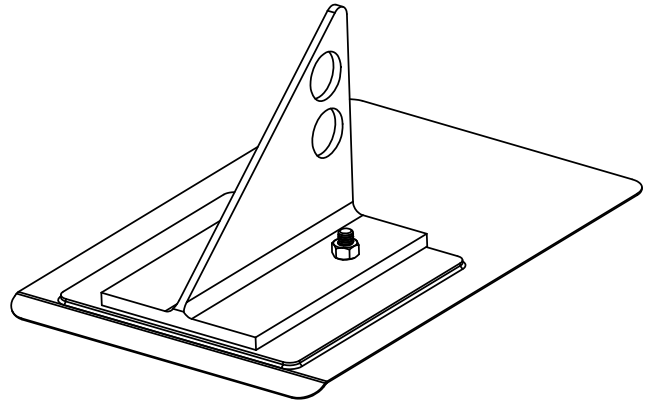
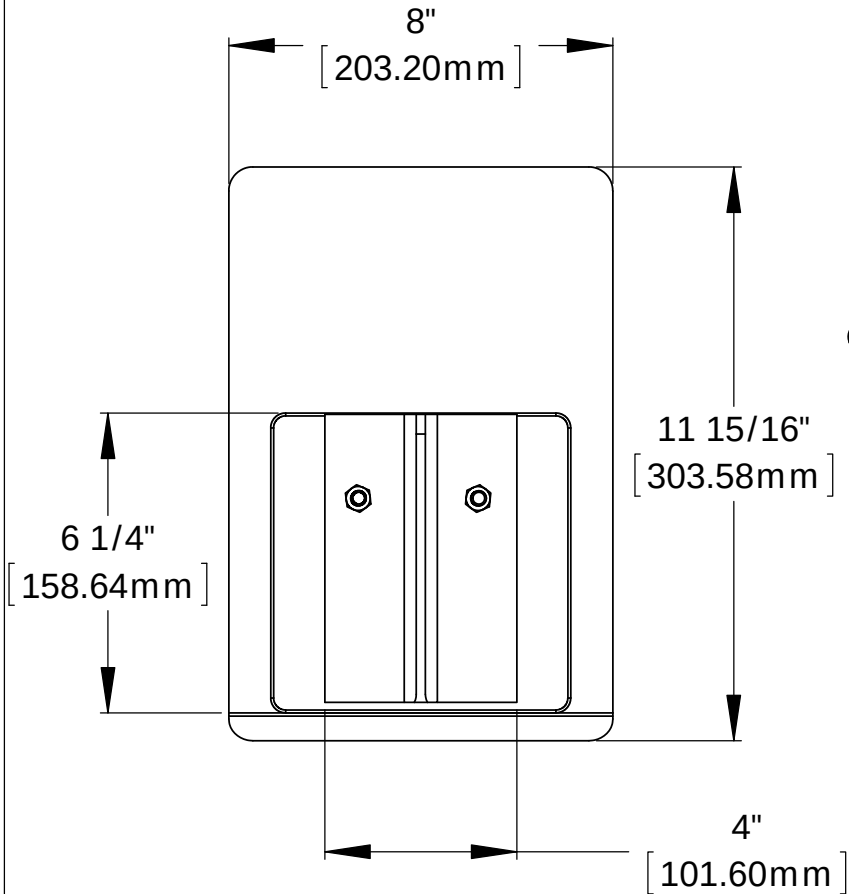
289 Harrel Street
Morrisville, VT 05661
Phone: 1.888.766.4273
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Email: Info@alpinesnowguards.com

Scale: 1:4

3/12/2020

Cut Sheet - PP120HI2ALSS 6X6

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3. Contact manufacturer for detailed layout.
4. Do not scale drawings.
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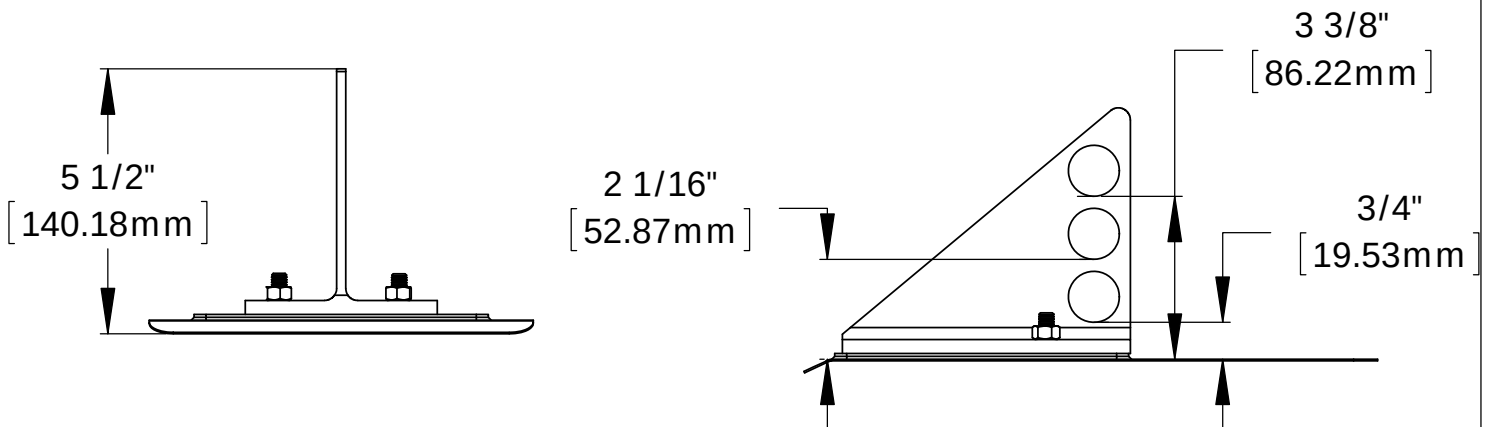
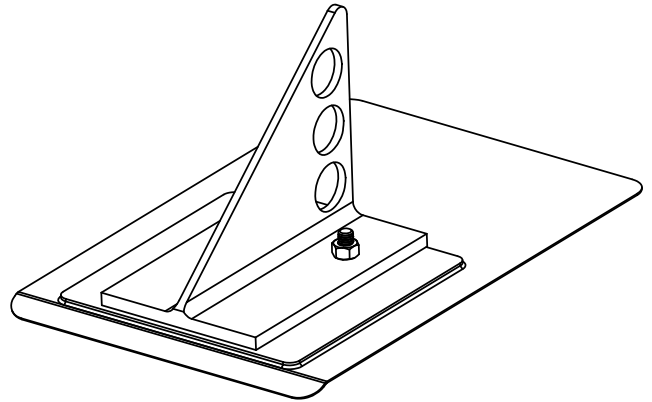
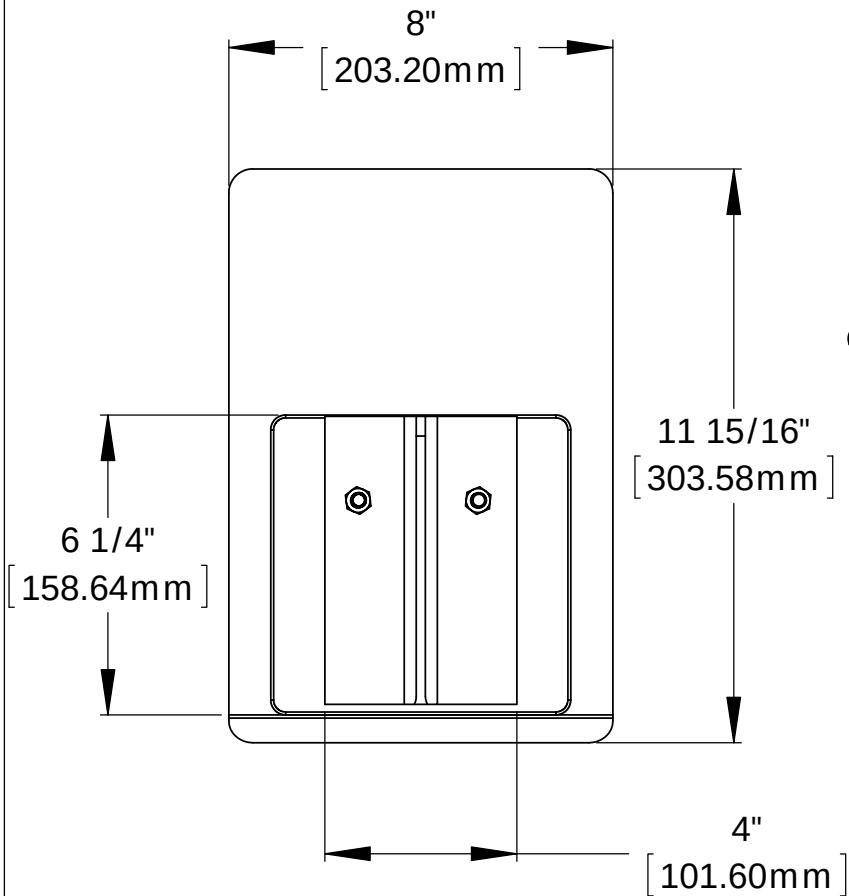
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Email: Info@alpinesnowguards.com

Scale: 1:4

3/12/2020

Cut Sheet - PP120H3ALSS 6X6

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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](#).



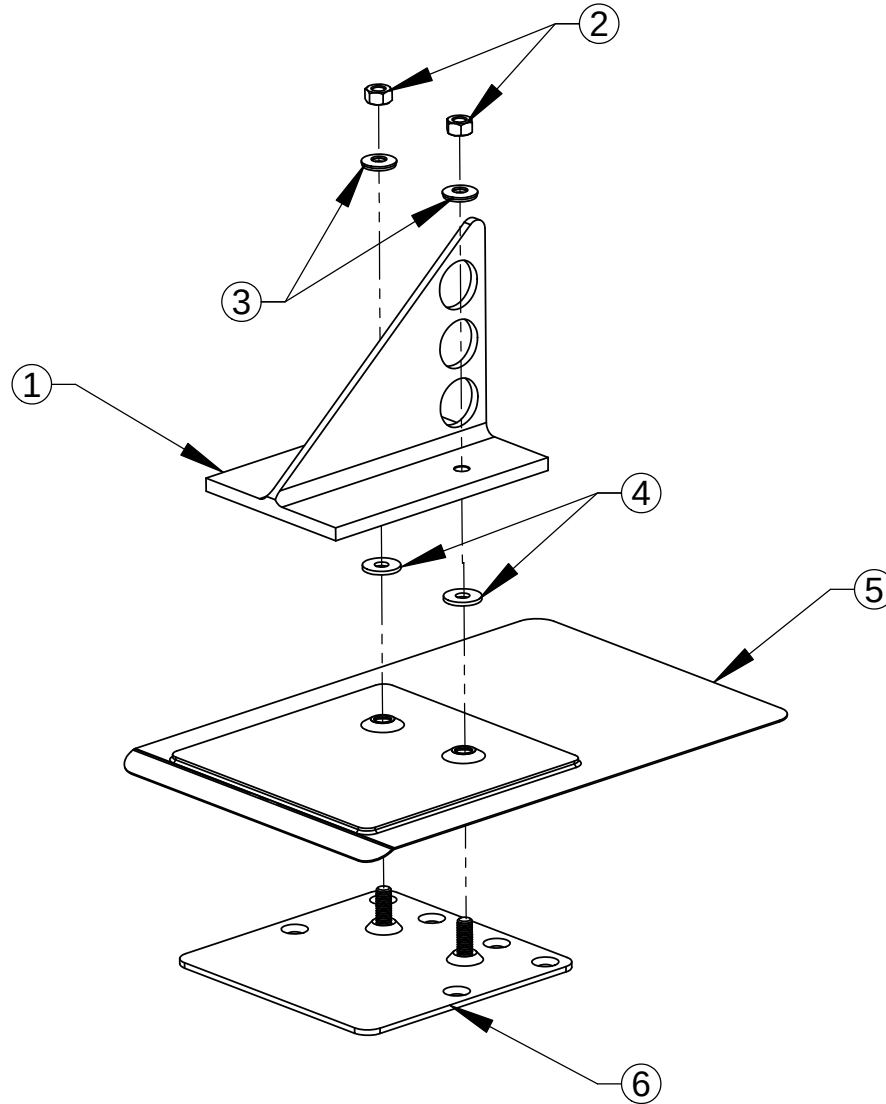
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Scale: 1:4

3/12/2020

Assembly Sheet - PP120 (ALL CONFIGURATIONS)

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.
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ITEM NO.	PART CODE	DESCRIPTION	QTY
1	KIT-145 BRACKET (3-PIPE SHOWN)	KIT-145 BRACKET (2-PIPE, 3-PIPE, OR HI HOLE OPTIONS)	1
2	N-HX SS-.3125-18	NUT SS HEX FINISHED .3125-18 (INCLUDED IN POLY KIT 145)	2
3	W-NEO SS-.313	SS NEO WASHER .313 ID (INCLUDED IN POLY KIT 145)	2
4	W-EPDM .313 QF	EPDM SEALING WASHER .313 ID (INCLUDED IN POLY KIT QF FLASHING)	2
5	PP99-AL-8X12-100	8X12 METAL FLASHING EMBOSSED FOR 6X6 PLATE	1
6	BASE SS 6X6-100	SS 6X6-100 BASE PLATE	1



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Scale: 1:4

9/27/2019



PP120 Specification Sheet Snow Guards

PART 1 – GENERAL

1.1 SUMMARY

A. WORK INCLUDES

1. PP120 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 073126: Slate Shingles | MasterFormat 2016 07 31 26 |
| 4. Section 077253: Snow Guards | MasterFormat 2016 07 72 53 |
| 5. Section 077200: Roof Accessories | MasterFormat 2016 07 72 00 |

1.2 SYSTEM DESCRIPTION

A. COMPONENTS

Bracket: An aluminum bracket and two 5/16" diameter bonded stainless steel and EPDM washers, with two countersunk holes milled into underside of bracket.

1. KIT-145 BRACKET
2. N-HX SS-.3125-18
3. W-NEO SS-.313

Flashing: An 8" x 12" aluminum flashing, embossed to accept bracket and two studs of base plate. Includes two EPDM sealing washers for watertight seal.

4. W-EPDM .313 QF
5. PP99-AL-8X12-100

Base Plate: A 6" x 6" Stainless Steel base plate with 2 welded studs that align with fastener holes in flashing and bracket.

6. BASE SS 6X6-100

B. ACCESSORIES

1. PP75, tubing
2. Couplings
 - a. PP84, external
 - b. PP86, internal
3. PP56, end caps
4. PP65, end collars
5. PP95, ice flags

Fasteners

- a. To be of metal compatible with snow guards.
- b. Fasteners should be selected for compatibility with roof deck.
- c. Fastener strength should exceed or be equal to that of snowguard system.



PP120 Specification Sheet Snow Guards

C. DESIGN REQUIREMENTS

1. Spacing to be recommended by manufacturer or building engineer.
2. Install a minimum of 6 fasteners per snow guard base plate.
3. It is important to design new structures or assess existing structures to make sure they can withstand retained snow loads.

1.3 SUBMITTAL

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

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.

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. KIT-145 BRACKET - 6000 Series Aluminum.
- B. N-HX SS-.3125-18 - 304 Stainless Steel.
- C. W-NEO SS-.313 – 304 Stainless Steel.
- D. W-EPDM .313 QF - EPDM and 304 Stainless Steel.
- E. PP99-AL-8X12-100 - .032 Aluminum 1100-0.
- F. BASE SS 6X6-100 - 11 gage 304 Stainless Steel.
- G. PP75, tubing (choose one)
 1. Aluminum – 6000 Series, 1" outside diameter and .120" wall thickness, extruded.
 2. Stainless Steel – 304 alloy, same dimensions as aluminum, welded.
- H. PP84 and PP85, internal and external couplings (choose one)
 1. Aluminum – 6000 Series.
 - a. Internal and concealed coupling 3" long.
 - b. External and exposed coupling which can also serve as a 5" long expansion mechanism.
 2. Stainless Steel – 304 Series.
 - a. Internal and concealed coupling 3" long.
 - b. External and exposed coupling which can also serve as a 5" long expansion mechanism.



PP120 Specification Sheet Snow Guards

- I. PP56, end caps - 304 Stainless Steel.
 - J. PP65, end collars (choose one)
 - 1. 6000 Series Aluminum.
 - 2. 304 Stainless Steel.
 - K. PP95, ice flags, optional (choose one)
 - 1. 6000 Series Aluminum 3" wide x length.
 - 2. 304 Stainless Steel.
 - L. Fasteners (can be purchased from others) to be compatible with chosen roof application and meet specified pull-out values as shown in load test data.
- 2.3 FINISH (choose one)
- A. Mill Finish – standard
 - B. Powder Coated – available at additional cost

PART 3 – EXECUTION

3.1 EXAMINATION

- A. Substrate
 - 1. Inspect structure on which snow guard system is to be installed and verify it will withstand any additional loading it may incur. Notify general contractor of any deficiencies before installing Alpine SnowGuards' products.
 - 2. Verify 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 for installation and layout.

Document Version 03.12.2020
07 72 53 Snow Guards

PP120 Snow Guard Installation Instructions

ROOF TYPES

- New / Existing Composition Shingle
- New / Existing Synthetic Slate (must be semi-rigid/flexible)

Note: If the roofing material is rigid like slate or tile, do not use the PP120. Refer to our model PP125 snow guard.

INSTALLATION - BASE PLATE

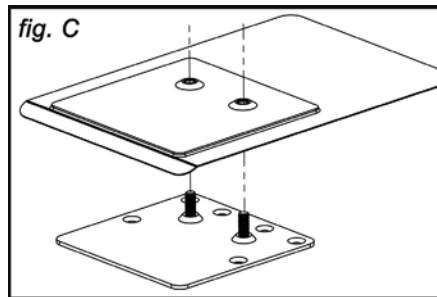
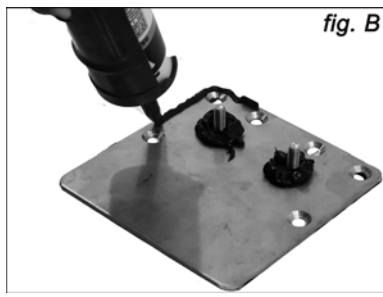
1. Prior to installing base plate, apply a generous amount of butyl caulking around perimeter on underside of base plate (fig. A).
2. Position base plate so flashing will not be visible or exposed in keyway of upper course of shingles. Base plate should sit flush along flattest downslope edge of shingle.

Note: Threaded studs on base plate are not centered. For PP120 installations, align base plate so the studs and four fastener holes are on up-slope/top of base plate.

3. Fasten base plate to substructure using appropriate fasteners for roof type and thickness of substrate.

INSTALLATION - FLASHING OF BASE PLATE

1. Before installing flashing, apply a generous amount of butyl caulking around threaded studs and perimeter of base plate (fig. B).
2. Place flashing over base plate, carefully aligning holes on flashing over studs on base plate (fig. C). Wipe clean, pressing butyl caulking into any voids.

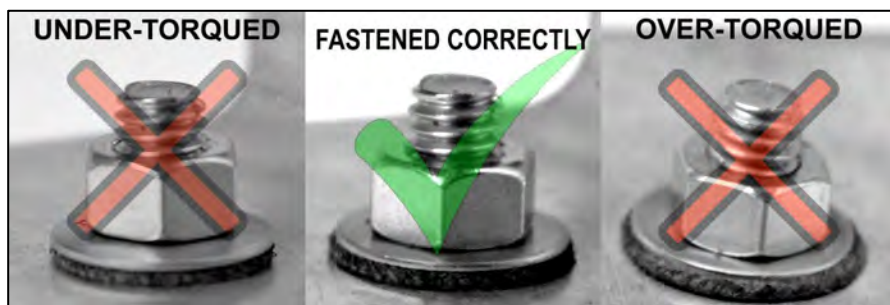


PP120 Snow Guard Installation Instructions

INSTALLATION - PP120 SNOW GUARD BRACKET:

1. Install bracket over threaded studs. Bracket will be centered on base plate when installed properly.
2. Place one bonded washer over each stud and press them all the way down against bracket.
3. Thread one nut down each stud and tighten. The nut should be tightened to approximately 15 inch-lbs, until EPDM on bonded washer is compressed. Use fig. D as a visual guide for correct torque.
4. Install Pipes, Couplings, End Caps and End Collars (refer to pipe-style installation instructions). Ice Flags are optional.

fig. D



SNOW GUARD LAYOUT FOR PIPE STYLE BRACKETS

- Contact Alpine SnowGuards for detailed layout.
- Do not install runs of snow retention bar more than 100 feet long without a break to allow for thermal expansion.
- First row of snow guards are installed above outer most wall or support of the building.

Document version 05.02.2022
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



Chemistry

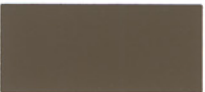
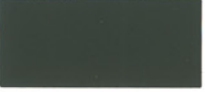
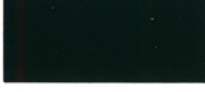
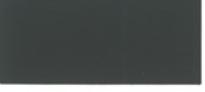
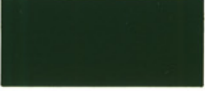
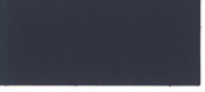
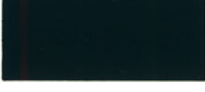
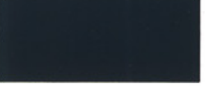
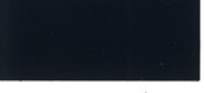
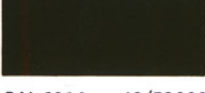
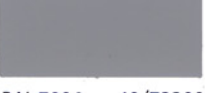
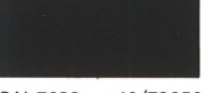
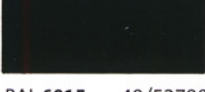
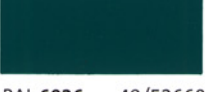
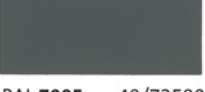
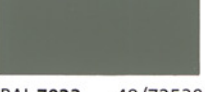
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44 Polyurethane
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75 Fluoropolymer
(for approved applicators only)
89 Polyester/Epoxy Hybrid,
Low/Fast Cure

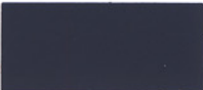
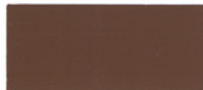
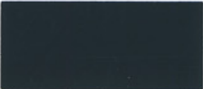
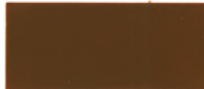
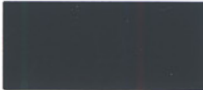
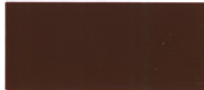
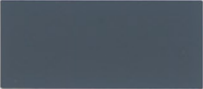
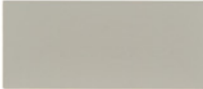
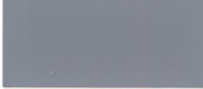
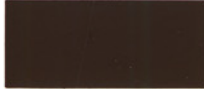
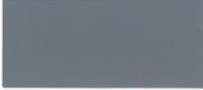
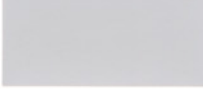
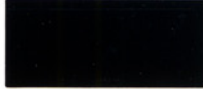
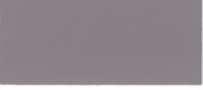
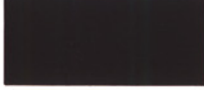
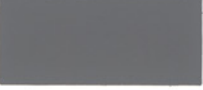
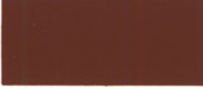
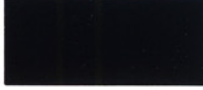
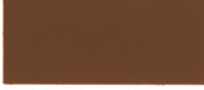


Color Group (starting with)

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
					
RAL 1001 49/15190 38/15001	RAL 1016 49/22520 38/20016	RAL 1034 49/23910	RAL 3000 49/33120 38/30000	RAL 3015 49/33670	RAL 4005 49/42780
					
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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RAL 1007 49/22540	RAL 1023 49/22490 38/20023	RAL 2004 49/24530	RAL 3007 49/31910 38/30007	RAL 3027 49/33660	RAL 5000 49/42200 38/40000
					
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RAL 1014 49/15170 38/15014	RAL 1032 49/22450 38/20032	RAL 2011 49/24580	RAL 3013 49/31950 38/30013	RAL 4003 49/32270	RAL 5004 49/42240 38/40004

					
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Member of the Powder Coating Institute
and the U.S. Green Building Council