

PP315 Pipe-Style Snow Guard Submittal Document Set

ROOF TYPES

- New / Existing Metal Batten

AVAILABLE MATERIALS

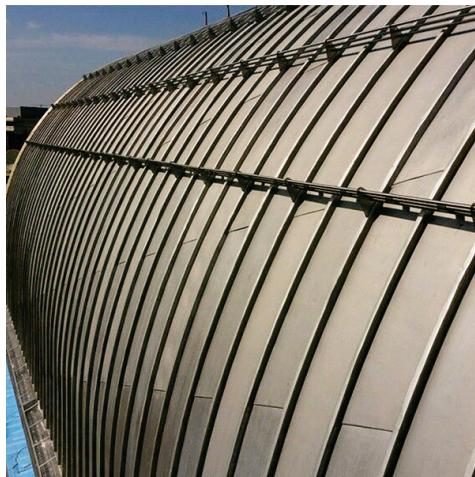
- Aluminum with Stainless Steel Base Plate and Aluminum Accessories (AL) (SS)
- Brass with Stainless Steel Base Plate and Brass Accessories (BR) (SS)
- Brass with Brass Base Plate and Brass Accessories (BR)

AVAILABLE FINISHES

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

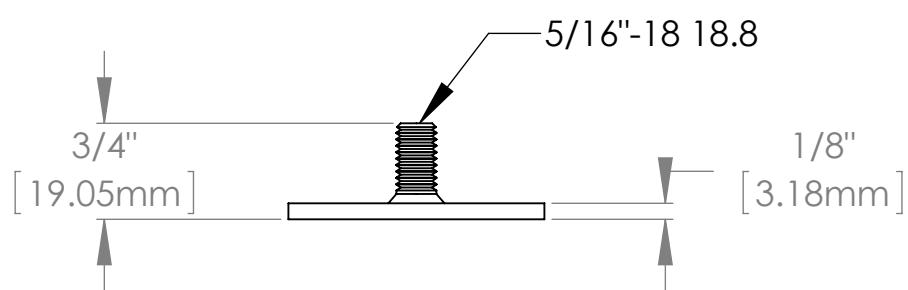
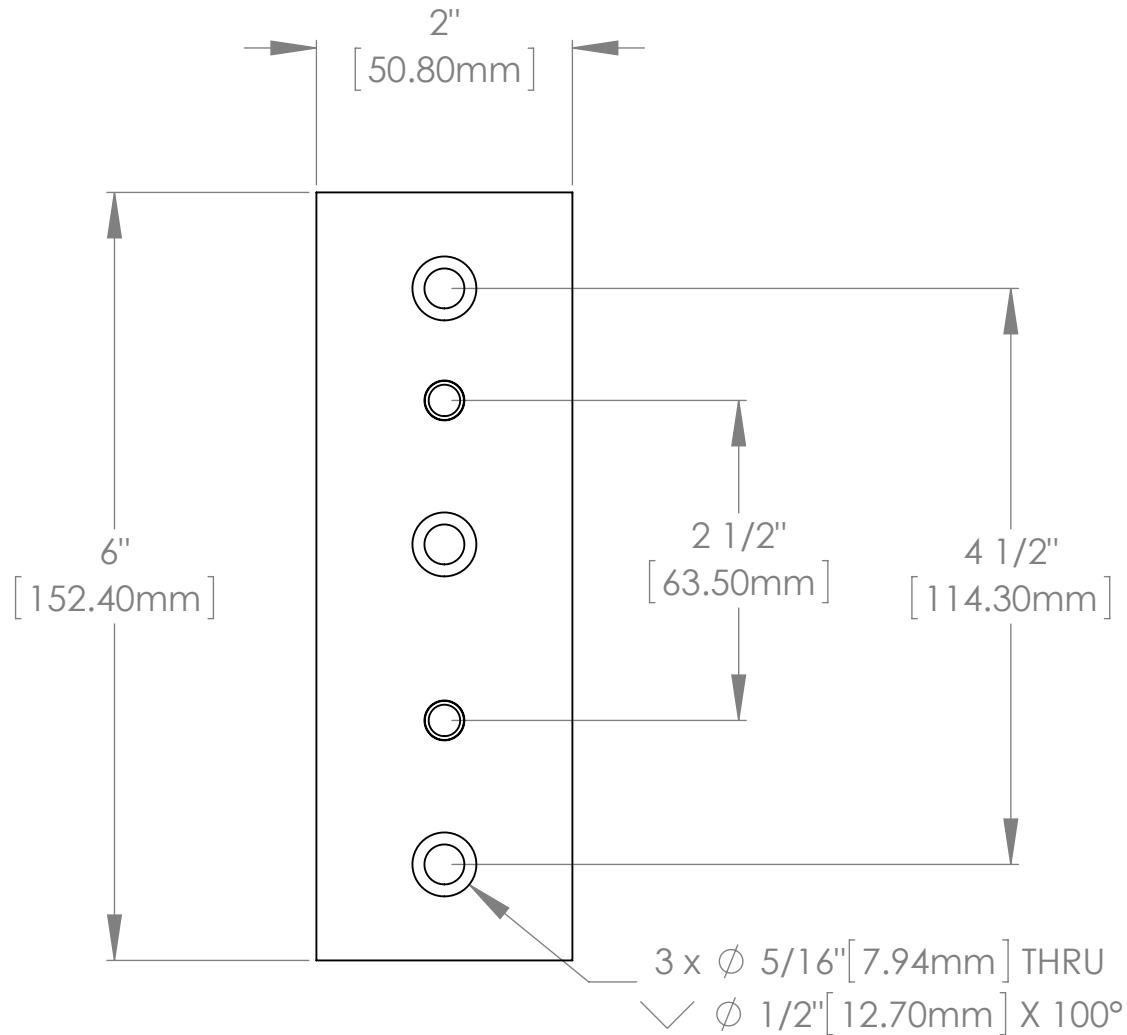
FEATURES/ADVANTAGES

- Narrow profile - Just 2" Wide
- Bracket (PP314) is available in Aluminum or Brass
- Base Plate (PP315) is available in Stainless Steel or Brass and measures 6" L x 2" W
- 3 configurations include 2-Pipe, 3-Pipe, 2 Hi-Pipe (Hi-Hole)
- All configurations accept 1" OD Pipe (Tubing) and 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
- Narrow footprint to fit where larger systems will not - between minor ribs, on batten caps, around skylights



Cut Sheet - PP315 BASE PLATE 2X6

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.



Cut Sheet - PP315H2 2X6 (ALL MATERIALS)

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.
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5. Subject to change without notice.
6. For patent information, visit our [Patent Page](#).

Available Materials

Aluminum Bracket,
Stainless Steel Base Plate

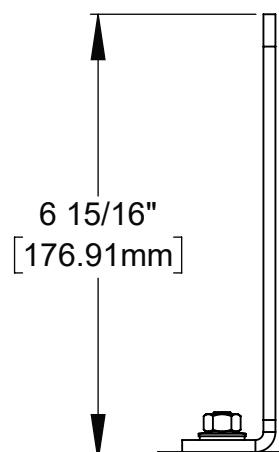
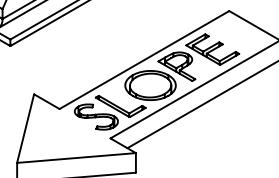
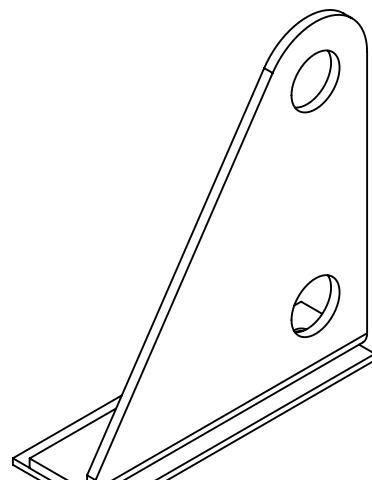
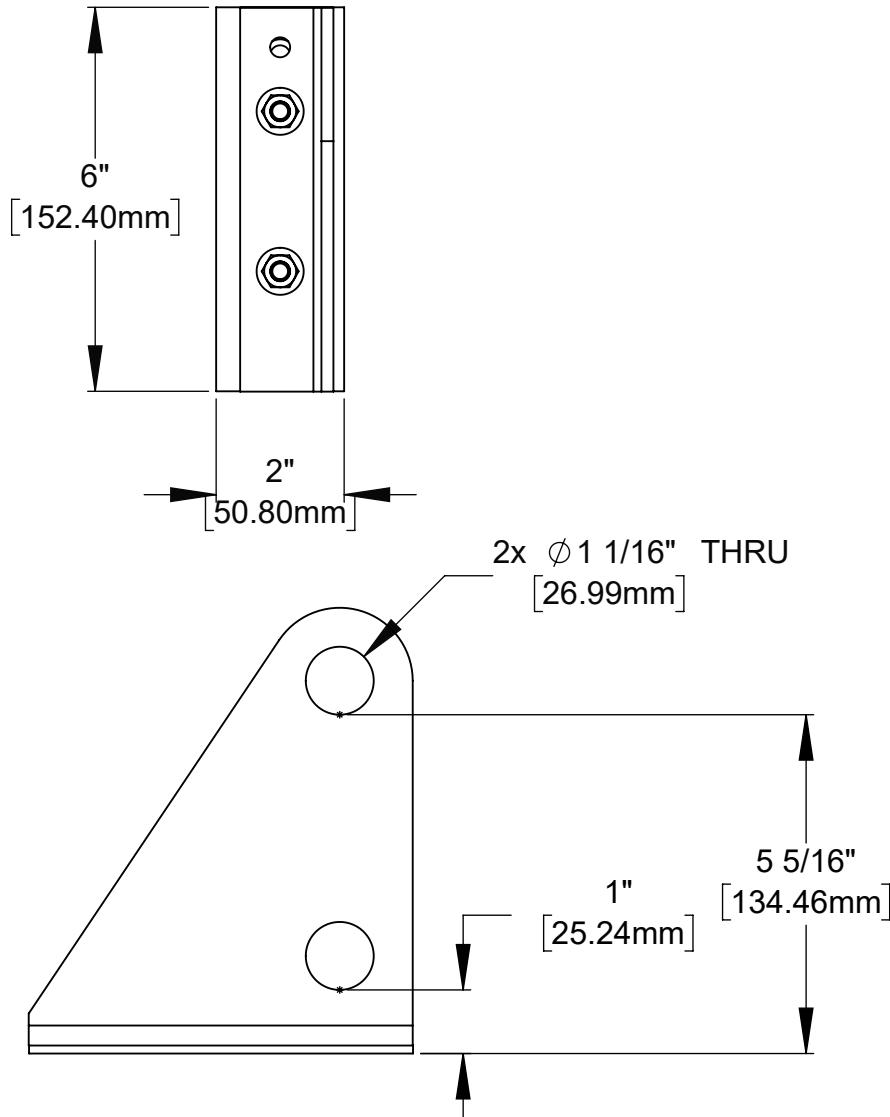
Brass Bracket,
Stainless Steel Base Plate

Stainless Steel Bracket,
Stainless Steel Base Plate

Available Finishes

Mill Finish

Powder Coated
(Ral Tiger Drylac Powder
Coating Color Code: _____)



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Cut Sheet - PP315HI2 2X6 (ALL MATERIALS)

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Available Materials

Aluminum Bracket,
Stainless Steel Base Plate

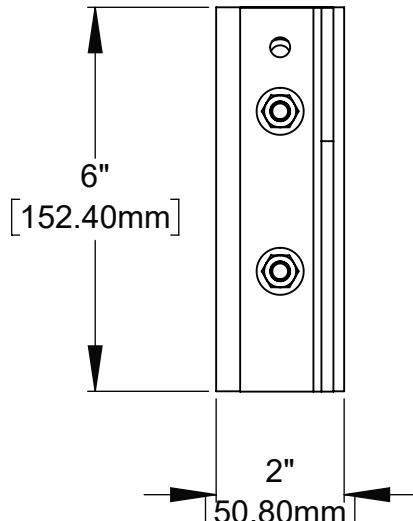
Brass Bracket,
Stainless Steel Base Plate

Stainless Steel Bracket,
Stainless Steel Base Plate

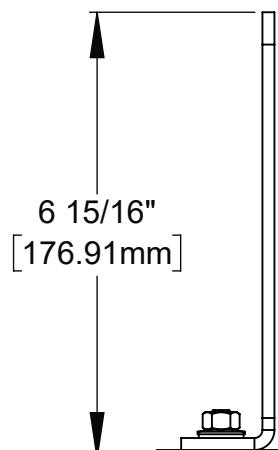
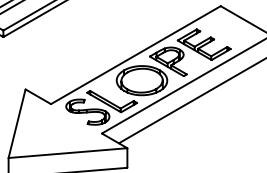
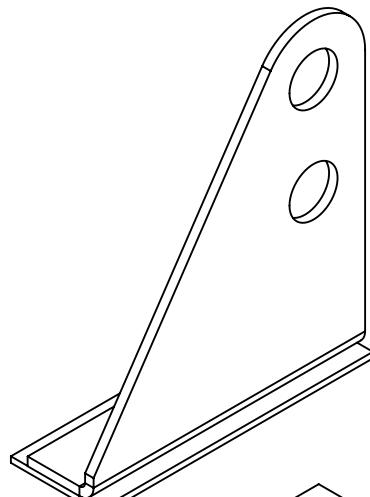
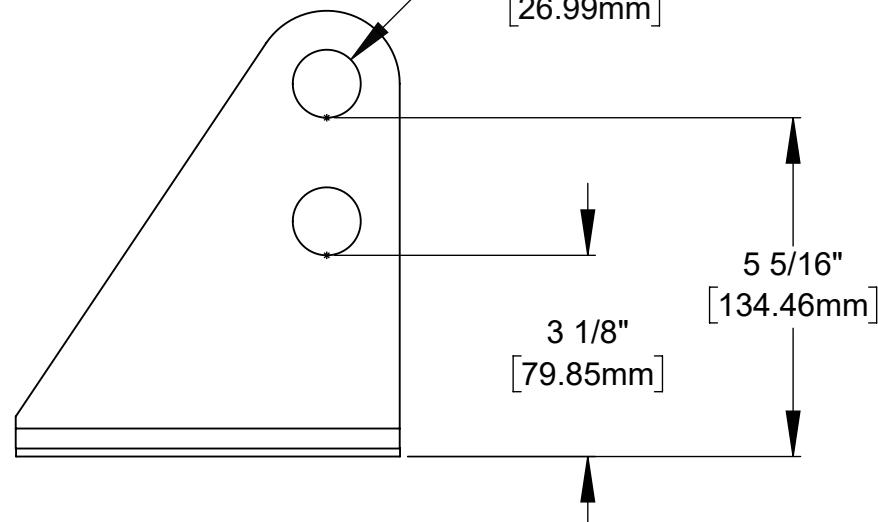
Available Finishes

Mill Finish

Powder Coated
(Ral Tiger Drylac Powder
Coating Color Code: _____)



2x $\phi 1 \frac{1}{16}$ " THRU
[26.99mm]



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Scale: 1:3

6/20/2022

Cut Sheet - PP315H3 2X6 (ALL MATERIALS)

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5. Subject to change without notice.
6. For patent information, visit our [Patent Page](#).

Available Materials

Aluminum Bracket,
Stainless Steel Base Plate

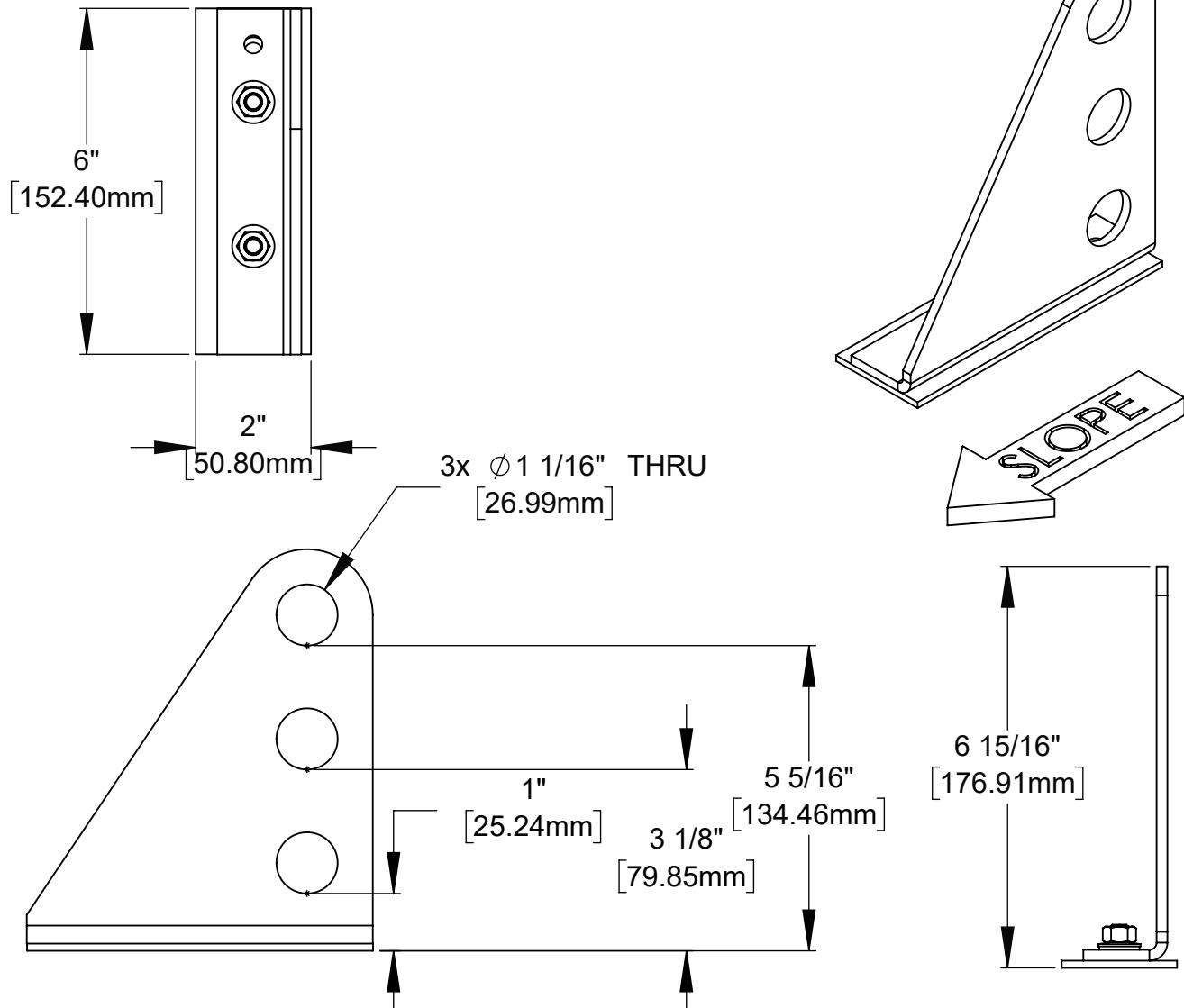
Brass Bracket,
Stainless Steel Base Plate

Stainless Steel Bracket,
Stainless Steel Base Plate

Available Finishes

Mill Finish

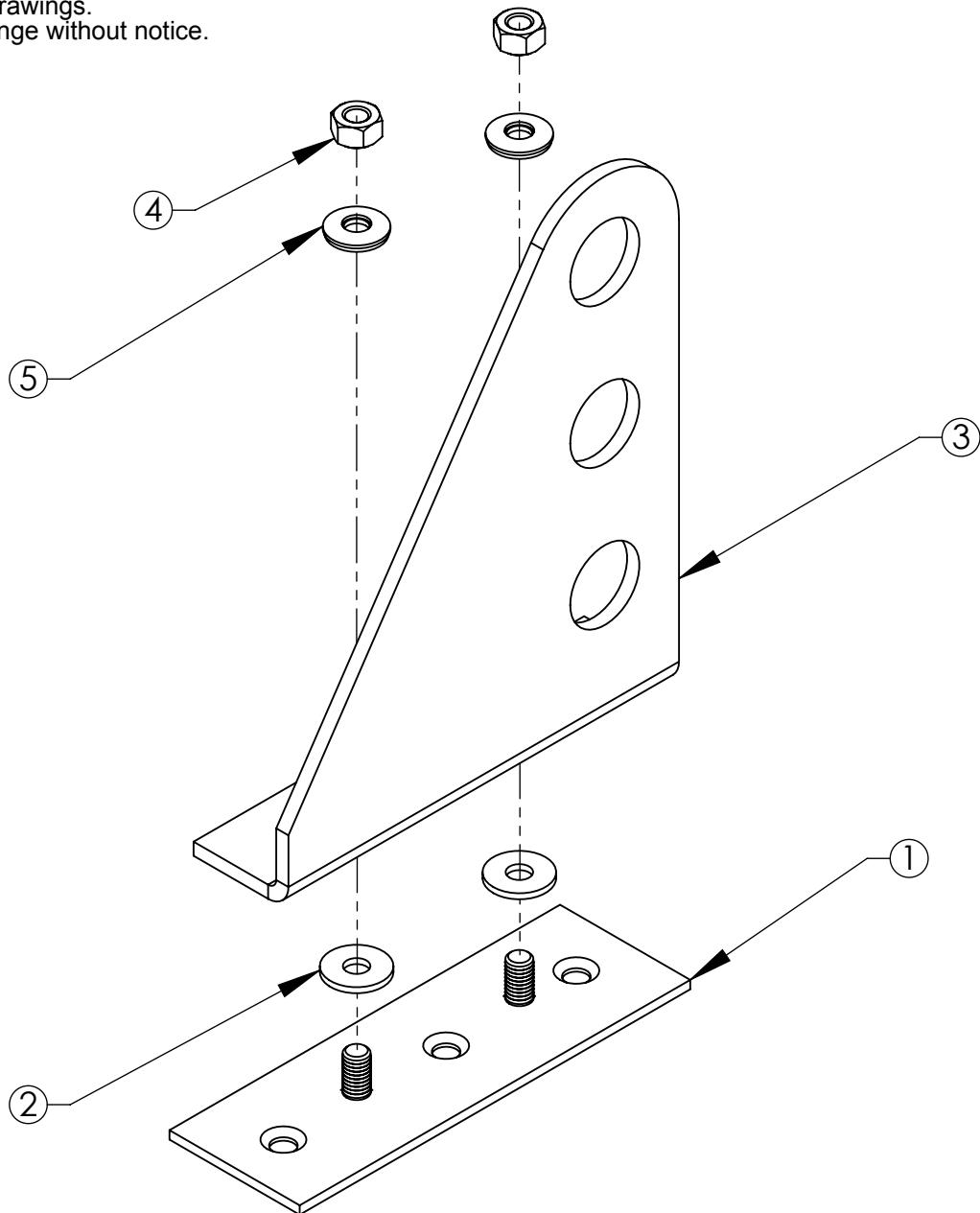
Powder Coated
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Assembly Sheet - PP315 (ALL CONFIGURATIONS)

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.
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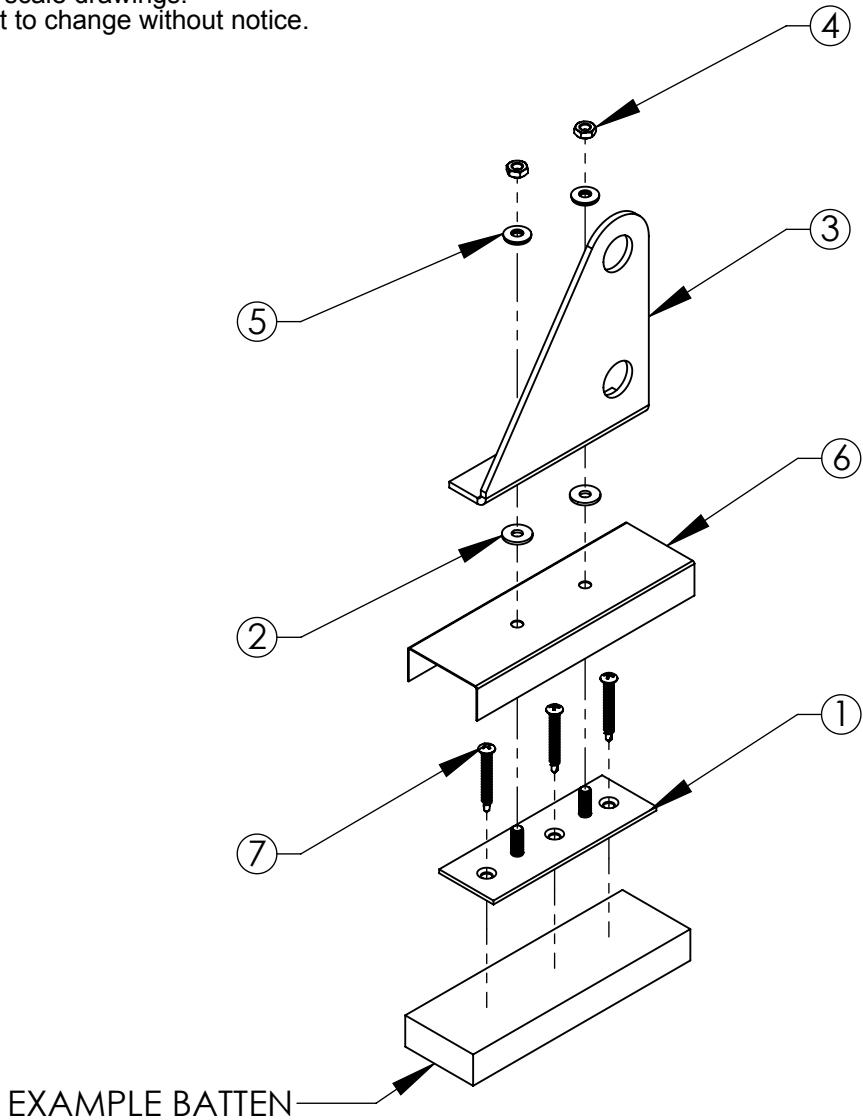
ITEM NO.	PART CODE	DESCRIPTION	QTY
1	BASE SS 2X6-200	SS 2X6-200 BASE PLATE	1
2	W-EPDM .313 QF	EPDM SEALING WASHER .313 ID (INCLUDED IN POLY KIT QF FLASHING)	2
3	PP314 BRACKET (3-PIPE SHOWN)	315 BRACKET (2-PIPE, 3-PIPE, OR HI HOLE OPTIONS)	1
4	N-HX SS-.3125-18	NUT SS HEX FINISHED .3125-18 (INCLUDED IN POLY KIT 145)	2
5	W-NEO SS-.313	SS NEO WASHER .313 ID (INCLUDED IN POLY KIT 145)	2



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Assembly Sheet - PP315 FOR BATTEN

1. Installation to be completed in accordance with manufacturer's written specifications and installation instructions.
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3. Contact manufacturer for detailed layout.
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ITEM NO.	PART CODE	DESCRIPTION	QTY
1	BASE SS 2X6-200	SS 2X6-200 BASE PLATE	1
2	W-EPDM .313 QF	EPDM SEALING WASHER .313 ID (INCLUDED IN POLY KIT QF FLASHING)	2
3	PP314 BRACKET (2-PIPE SHOWN)	314 BRACKET (2-PIPE, 3-PIPE, OR HI HOLE OPTIONS)	1
4	N-HX SS-.3125-18	NUT SS HEX FINISHED .3125-18 (INCLUDED IN POLY KIT 145)	2
5	W-NEO SS .313	SS NEO WASHER .313 ID (INCLUDED IN POLY KIT 145)	2
6	FLASHING	FLASHING (CUSTOMER SUPPLIED)	1
7	FASTENER	APPROVED ROOFING FASTENER (NOT INCLUDED)	3



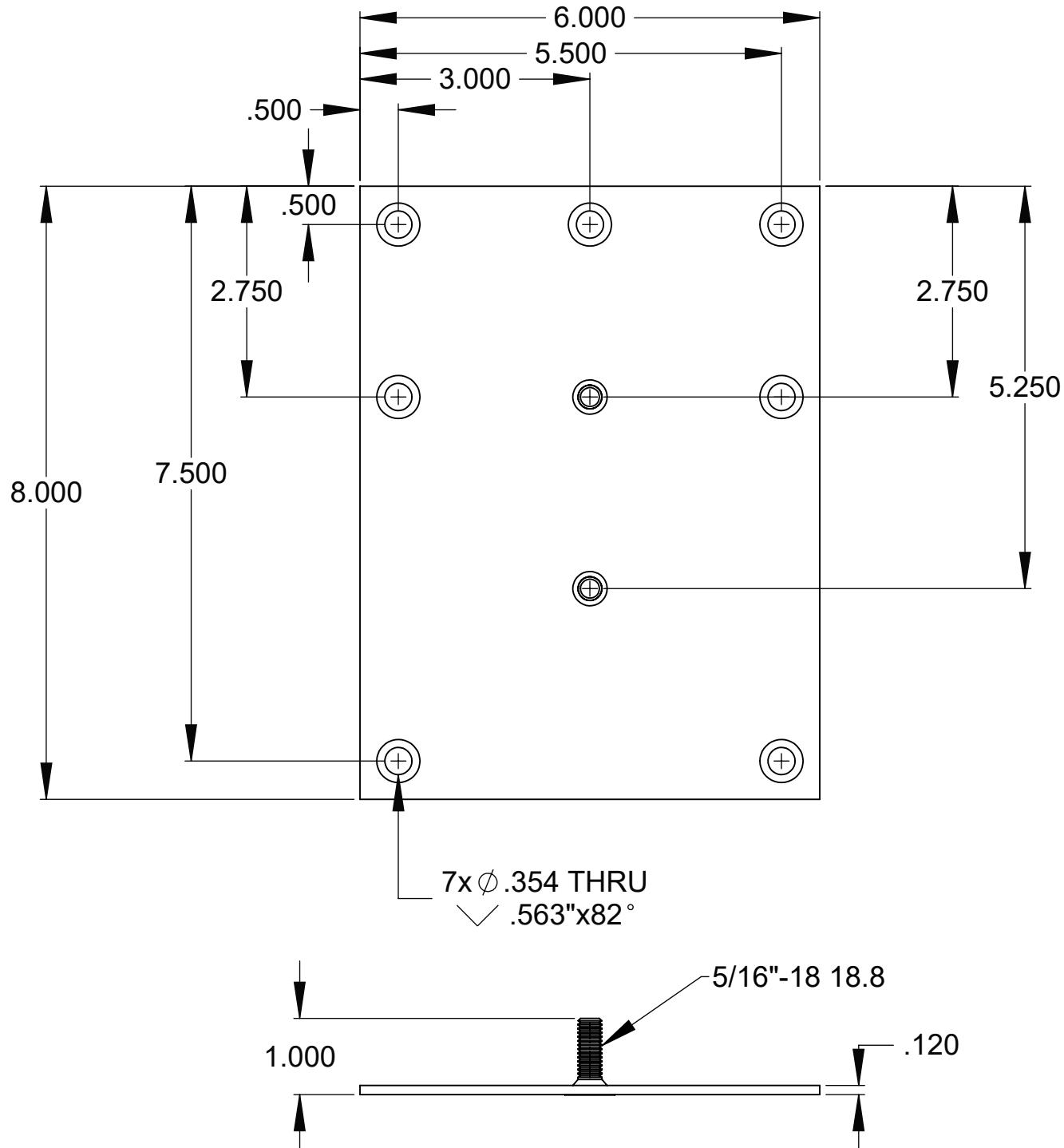
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Scale: 1:5

8/21/2018

Cut Sheet - BASE SS 6X8-200

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](#).

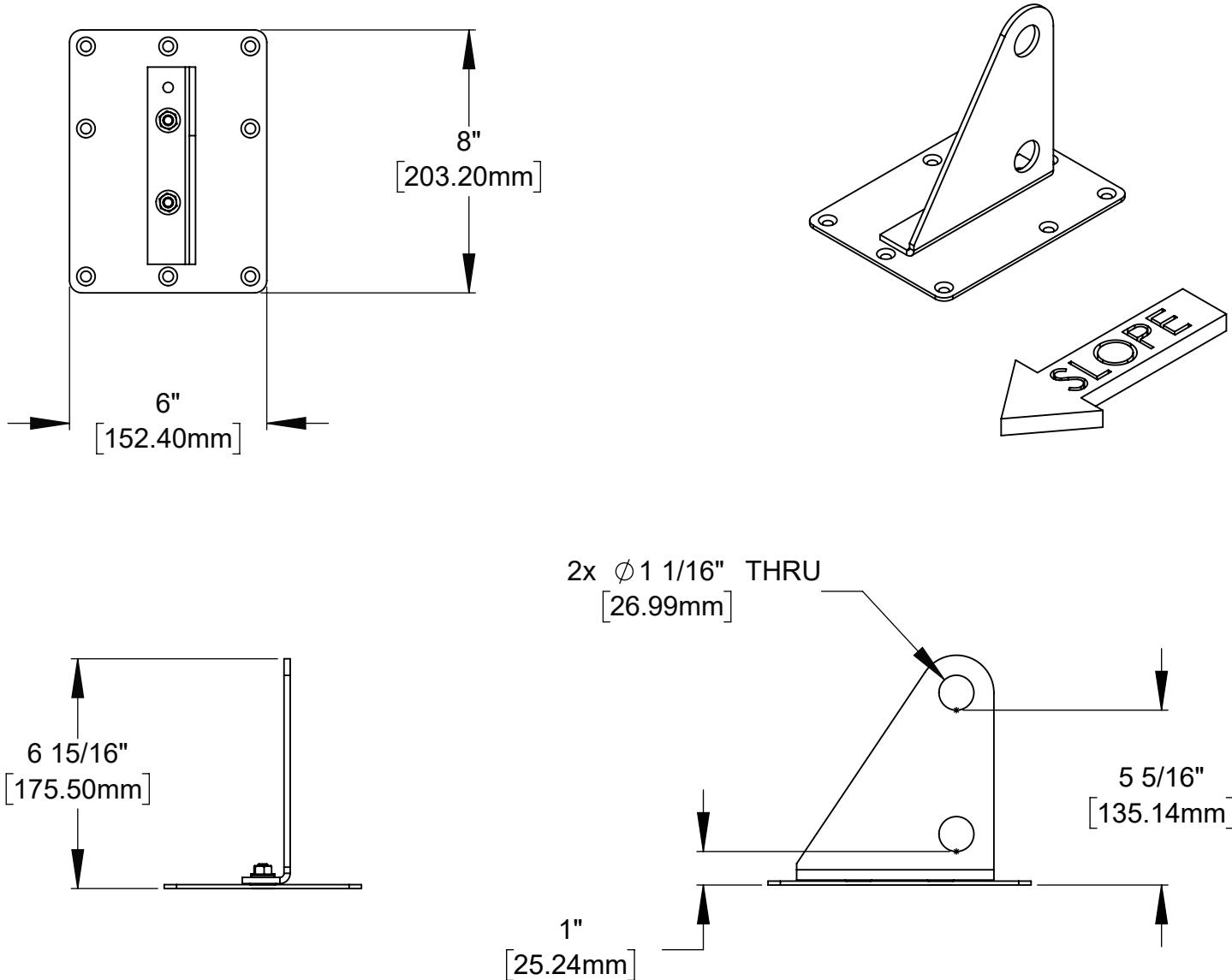


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Cut Sheet - PP315H2 6X8

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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](#).

<u>Available Materials</u>	<u>Available Bracket Finishes</u>	<u>Available Flashing</u>
<input type="checkbox"/> Aluminum Bracket, Stainless Steel Base Plate	<input type="checkbox"/> Brass Bracket, Stainless Steel Base Plate	<input type="checkbox"/> Mill Finish
<input type="checkbox"/> Stainless Steel Bracket, Stainless Steel Base Plate	<input type="checkbox"/> Powder Coated (Ral Tiger Drylac Powder Coating Color Code: _____)	<input type="checkbox"/> PP99-CU (Copper Flashing) <input type="checkbox"/> Customer Supplied



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Cut Sheet - PP315HI2 6X8

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3. Contact manufacturer for detailed layout.
4. Do not scale drawings.
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6. For patent information, visit our [Patent Page](#).

Available Materials

Aluminum Bracket,
Stainless Steel Base Plate Brass Bracket,
Stainless Steel Base Plate

Stainless Steel Bracket,
Stainless Steel Base Plate

Available Bracket Finishes

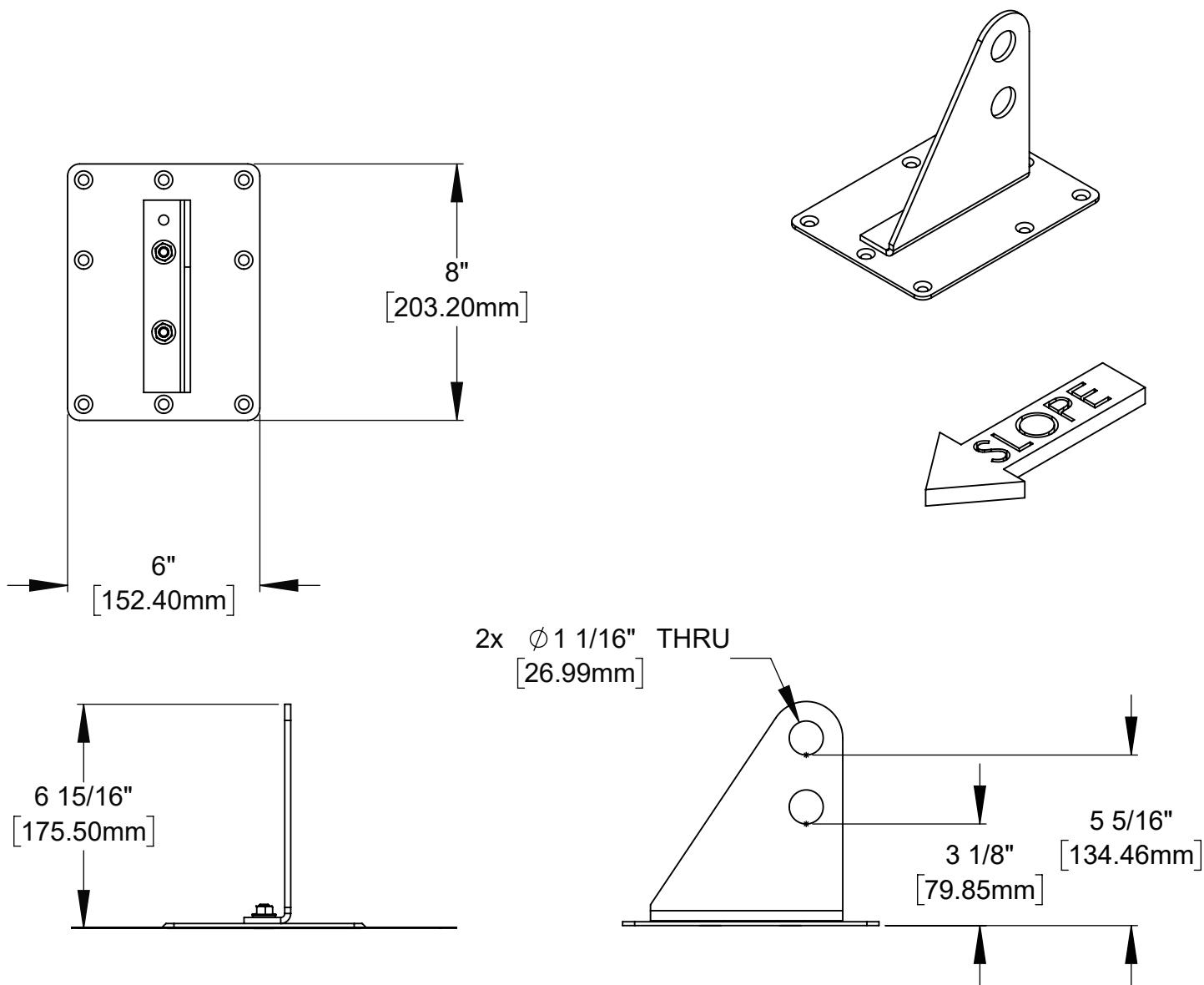
Mill Finish

Powder Coated
(Ral Tiger Drylac Powder
Coating Color Code: _____)

Available Flashing

PP99-CU
(Copper Flashing)

Customer Supplied

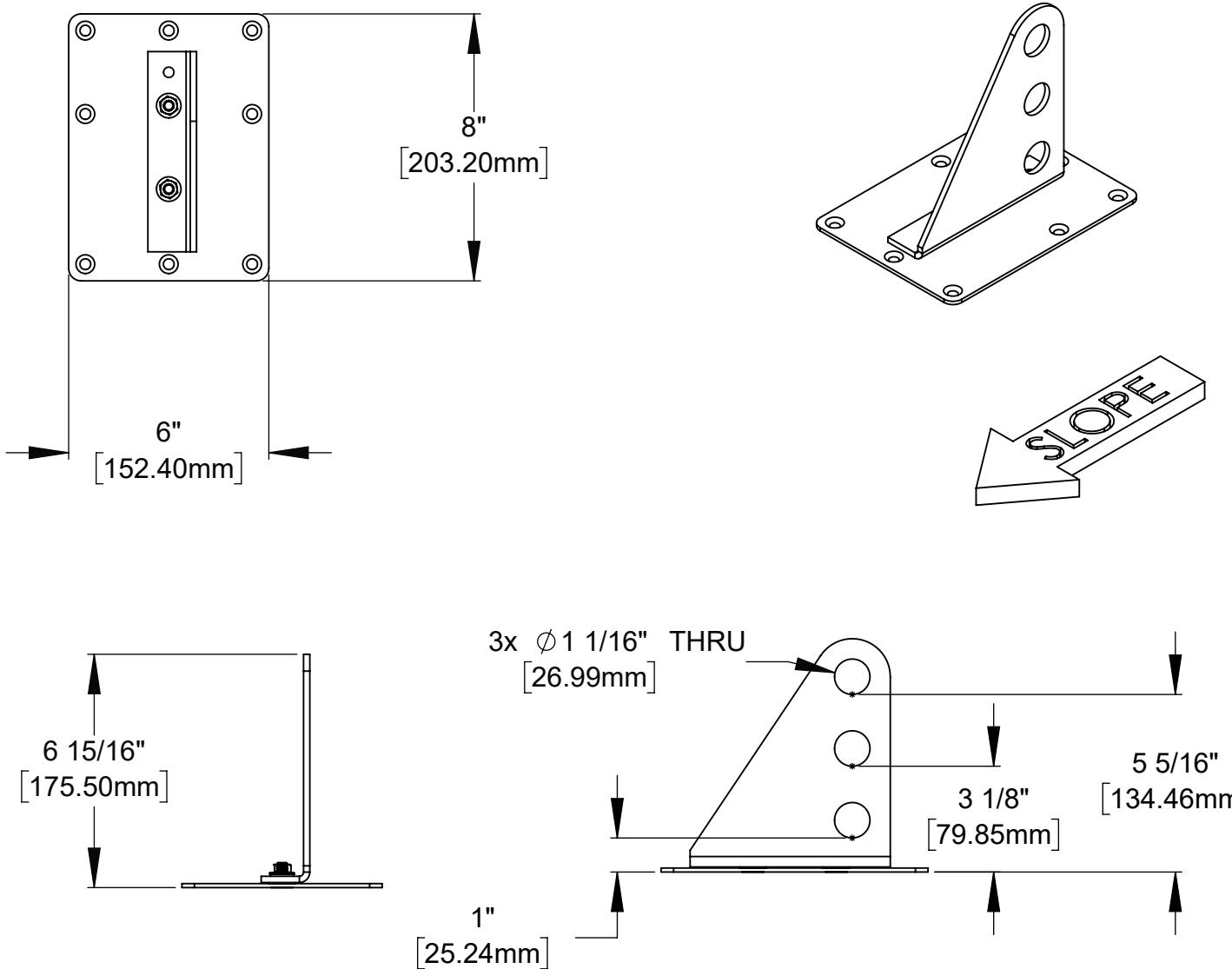


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Cut Sheet - PP315H3 6X8

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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](#).

<u>Available Materials</u>	<u>Available Bracket Finishes</u>	<u>Available Flashing</u>
<input type="checkbox"/> Aluminum Bracket, Stainless Steel Base Plate	<input type="checkbox"/> Brass Bracket, Stainless Steel Base Plate	<input type="checkbox"/> Mill Finish
<input type="checkbox"/> Stainless Steel Bracket, Stainless Steel Base Plate	<input type="checkbox"/> Powder Coated (Ral Tiger Drylac Powder Coating Color Code: _____)	<input type="checkbox"/> PP99-CU (Copper Flashing) <input type="checkbox"/> Customer Supplied



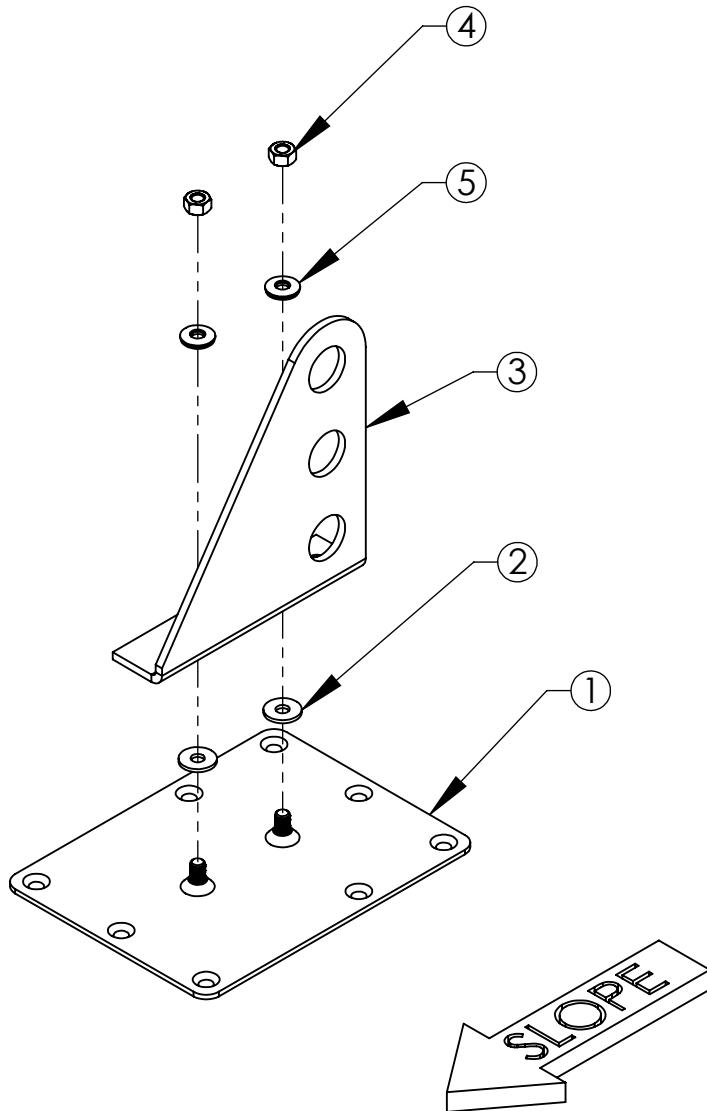
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Scale:1:5

6/20/2022

Assembly Sheet - PP315 6X8 (ALL CONFIGURATIONS) (ALL MATERIALS)

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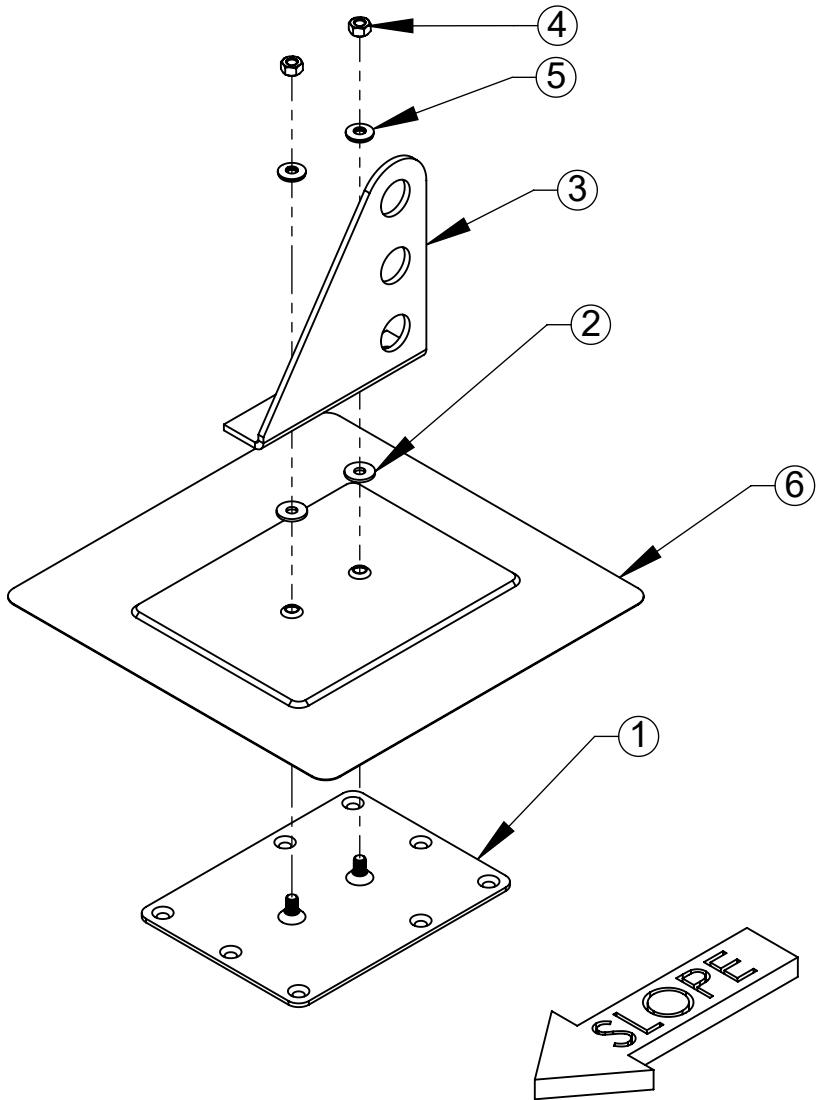
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3	PP314 BRACKET (3-PIPE SHOWN)	314 BRACKET (2-PIPE, 3-PIPE, OR HI HOLE OPTIONS)	1
4	N-HX SS-.3125-18	SS FINISHED HEX NUT .3125-18 (INCLUDED IN POLY KIT 145)	2
5	W-NEO SS-.313	SS NEO WASHER .313ID (INCLUDED IN POLY KIT 145)	2



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Assembly Sheet - PP315 6X8 (ALL CONFIGURATIONS) (ALL MATERIALS)

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4	N-HX SS-.3125-18	SS FINISHED HEX NUT .3125-18 (INCLUDED IN POLY KIT 145)	2
5	W-NEO SS-.313	SS NEO WASHER .313ID (INCLUDED IN POLY KIT 145)	2
6	PP99-CU	12X12 COPPER FLASHING EMBOSSED 6X8 (OPTIONAL)	1



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PP315 Pipe-Style Snow Guard Specification Sheet

PART 1 – GENERAL

1.1 SUMMARY

A. WORK INCLUDES

1. PP315 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 07600: Flashing and Sheet Metal.	MasterFormat 2004 07 60 00
2. Section 07310: Shingles.	MasterFormat 2004 07 31 00
3. Section 07320: Roofing Tiles.	MasterFormat 2004 07 32 00
4. Section 07610: Metal Roofing.	MasterFormat 2004 07 61 00
5. Section 07410: Metal Panels.	MasterFormat 2004 07 41 00
6. Division 7: Thermal and Moisture Protection.	

1.2 SYSTEM DESCRIPTION

A. COMPONENTS

1. PP315 Snow guard system consists of snow guard bracket and base plate with (2) stainless steel nuts and (2) bonded stainless steel and EPDM washers.
2. PP75, tubing (Snow Fence).
3. Couplings
 - a. PP84, external
 - b. PP86, internal
4. PP56, end caps
5. PP65, end collars
6. PP95, ice flags, optional
7. 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 snow guard system.

B. DESIGN REQUIREMENTS

1. Spacing to be recommended by manufacturer or building engineer.
2. Install a minimum of 3 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.

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.

Alpine SnowGuards®, a Division of Vermont Slate & Copper Services, Inc.

289 Harrel St., Morrisville, VT 05661 | 888-766-4273 | info@alpinesnowguards.com | www.alpinesnowguards.com



PP315 Pipe-Style Snow Guard Specification Sheet

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 Guard Bracket (choose one)
 - 1. 3/16" thick 5000 Series Aluminum.
 - 2. 1/8" thick 260 Brass.
 - 3. 1/8" thick 304 Stainless Steel.
- B. Base Plate – 11-gauge 304 stainless steel with (2) 5/16" 304 stainless steel machine screws welded into countersinks.
- C. 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.
 - 3. Brass – 272 alloy 1" outside diameter and 1/8" wall thickness; 330 alloy upon request.
- D. PP84 and PP86, external and internal 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.
 - 3. Brass – 300 Series
 - a. Internal and concealed coupling 3" long.
 - b. C230 external and exposed coupling which can also serve as a 5" long expansion mechanism.
- E. PP56, end caps (choose one)
 - 1. 304 Stainless Steel.
 - 2. Brass Plated Stainless Steel.
- F. PP65, end collars (choose one)
 - 1. 6000 Series Aluminum.
 - 2. 304 Stainless Steel.
 - 3. C230 Brass.
- G. PP95, ice flags, optional (choose one)
 - 1. 6000 Series Aluminum 3" wide x length.
 - 2. 304 Stainless Steel.
 - 3. 260 Brass.
- H. 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.

ALPINE  SNOWGUARDS®
PP315 Pipe-Style Snow Guard
Specification Sheet

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 that 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 04.26.2021
07 72 53 Snow Guards



PP315 Snow Guard Installation Instructions

ROOF TYPES

- New Metal Batten
- Existing Metal Batten
- New Flat Seam Copper Roofing
- Existing Flat Seam Copper Roofing

METAL BATTEN – 2"X6" BASE PLATE INSTALLATION

Note: A continuous block is required underneath roof batten surface to attach base plate. Mounting this system over batten alone may crush batten and cause roof to leak.

- A. Place 2x6 base plate on top of installed batten.
- B. Before fastening base plate through batten to mounting block below, apply a generous amount of acceptable sealer under flange.
- C. Fasten base plate to mounting block using 3 fasteners that will achieve 2000 pounds combined sheer.
- D. Consult with an engineer, snow guard manufacturer or fastener company to determine the fastener required for attaching base plate to substructure.
- E. Once 2"x6" base plate is installed, move on to installation of snow guard bracket.

FLAT SEAM COPPER ROOFING - 6"X8" BASE PLATE AND FLASHING INSTALLATION

Base plate

Note: Threaded studs on base plate are aligned parallel to roof pitch.

- A. Place base plate on top of finished roof.
- B. Before fastening base plate, apply a generous amount of acceptable sealant under flange.
- C. Fasten base plate to roof using a minimum of 6 fasteners.
- D. Consult with an engineer, snow guard manufacturer or fastener company to determine the fastener required for attaching base plate to substructure.

Flashing

- E. Use flashing material to cover base plate in a method acceptable by roofing manufacturer. This flashing is commonly referred to as a Flashing Patch. Flashing size should be a minimum of 12" x 12" (prefabricated copper flashing patches embossed for base plate shape are available from Alpine SnowGuards).
- F. If fabricating flashing, cut two small holes in flashing to fit tightly over threaded studs.
- G. Before installing flashing apply generous amount of acceptable sealant around threaded studs.
- H. Apply flashing over base plate and seal perimeter of flashing to flat seam copper roof.

PP315 Snow Guard Installation Instructions

I. Threaded studs on base plate should still be exposed.

Note: Due to sealant applied around studs there may be bleed out at this opening. When bracket is installed and tightened this bleed out will help create a water tight compression fitting.

J. Install EPDM rubber washer on studs.

K. Once base plate and flashing are installed, move on to installation of snow guard bracket.

INSTALLATION OF SNOW GUARD BRACKET

A. Place bracket over threaded studs. Bracket will be centered on base plate when installed properly.

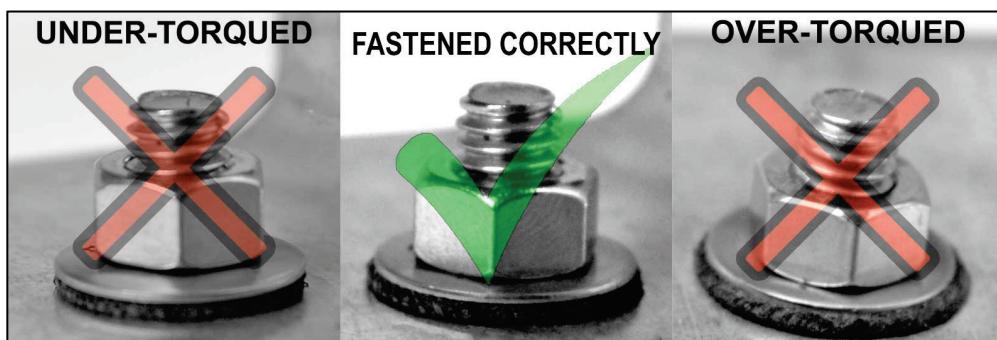
B. Place one bonded washer over each stud and press them all the way down against bracket.

C. Thread one nut down each stud and tighten. Nut should be tightened to approximately 15 inch-lbs, until EPDM on bonded washer is compressed.

Use fig. 1 as a visual guide for correct torque.

D. Install Pipes, Couplings, End Caps and End Collars (refer to Pipe-Style Installation Instructions). Ice Flags are optional.

fig. 1



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 6.14.2022
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

The background of the advertisement is a close-up, abstract view of colored powder particles. The particles are small, rounded, and have a metallic, reflective quality. They are arranged in a grid-like pattern, with colors transitioning from blue and purple on the left to orange and yellow on the right. The lighting creates highlights and shadows on the particles, emphasizing their three-dimensional texture.

TIGER Drylac®

ral colors

exterior powder coatings



TIGER Drylac®
Powder Coatings

DRYLAC TRADEMARK

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 Gardner 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

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.

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.

Product Code Matrix

3 8 / 3 0 0 2 5

Chemistry

09 Polyester/Epoxy Hybrid

16 Acrylic Hybrid

28 Super Durable Polyester
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

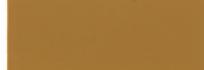
5 Green

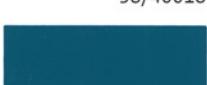
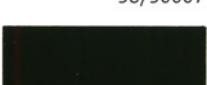
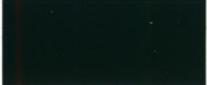
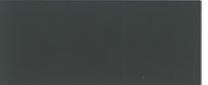
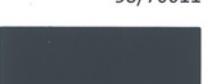
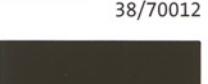
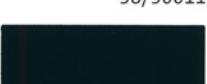
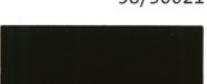
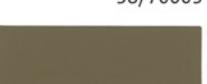
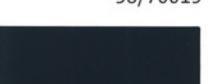
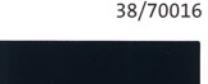
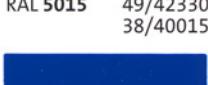
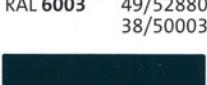
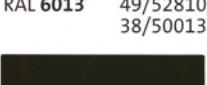
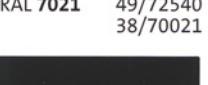
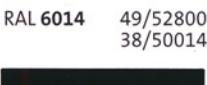
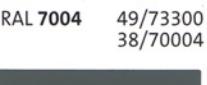
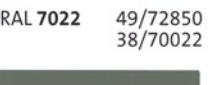
6 Brown

7 Grey

8 Black

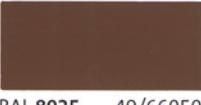
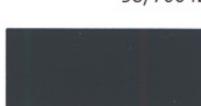
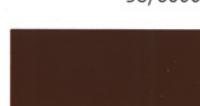
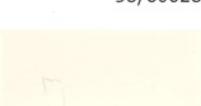
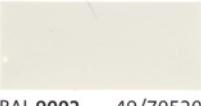
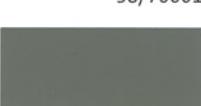
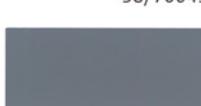
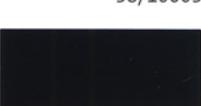
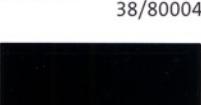
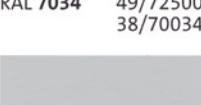
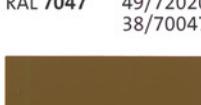
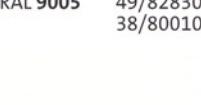
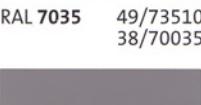
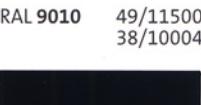
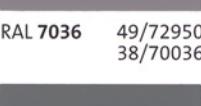
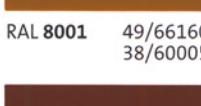
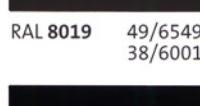
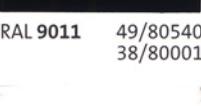
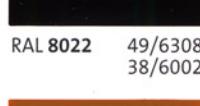
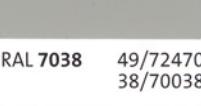
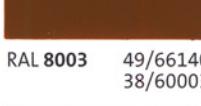
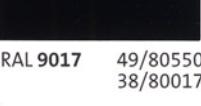
9 Metallic

					
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exterior

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